



# **GARDEN GROVE FIRE DEPARTMENT** REQUEST FOR RECORDS SEARCH

Tel: (714) 741-5630 Fax: (714) 741-5640

2015 JUN 1 1 A 11: 34

\*PLEASE RETURN THIS FORM BY MAIL WITH CHECK FOR \$25.00. \*PAYABLE TO: CITY OF GARDEN GROVE. MAIL TO: 11301 ACACIA PARKWAY, GARDEN GROVE, CA 92840 USE ONE FORM PER ADDRESS. YOU MAY PHOTOCOPY THIS FORM IF ADDITIONAL FORMS ARE NEEDED.

Name of business  11552 Anabel Avenue  Street address per form)  Garden Grove  City Phase I Environmental Site Assessment  Reason for Request  IRE CODE ENFORCEMENT INFORMATION REQUESTED FOR:  Fire Code Violation History Permits Current occupant Previous occupant All permits on file for address  Environmental Records Environmental Records Vinderground storage tanks  Previous occupant Other Previous occupant Other Specify:  INFORMATION REQUESTED BY:  Amada Lagunas 626.228.7361 800.385.7126  Requester scompany name 2610 Gardi Street Requester Scompany name 2610 Gardi Stree	RECORDS SEARCH REQUEST FOR THE	FOLLOWING ADDRESS:			1
Strete address (one address per form) Garden Grove City Phase I Environmental Site Assessment Reason for Request  IRE CODE ENFORCEMENT INFORMATION REQUESTED FOR:  Fire Code Violation History Previous occupant All permits on file for address  Hazardous Materials Disclosure Current occupant Previous occupant Underground storage tanks  Fire Code Violation History Previous occupant Underground storage tanks  Fire Code Violation History Previous occupant Underground storage tanks  Hazardous Materials Disclosure Current occupant Vinderground storage tanks  Fire Code Violation History Previous occupant Underground storage tanks  Hazardous Materials Disclosure Current occupant Vinderground storage tanks  Fire Code Violation History Previous occupant Underground storage tanks  Fire Code Violation History Previous occupant  Current permits Current permits  Environmental Records Vinderground storage tanks  Fire Code Violation History Previous occupant  Current permits  Environmental Records  Environmental Records  Fire Code Violation History Vinderground storage tanks  Fire Code Violation History Permits  Environmental Records  Environmental Records  Environmental Records  Environmental Records  Environmental Records  Environmental Records  Fire Code Violation History Vinderground storage tanks  Fire Code Violation History Permits  Environmental Records  Environmental					I
Street address (one address per form) Garden Grove Cty Phase I Environmental Site Assessment Reason for Request  TRE CODE ENFORCEMENT INFORMATION REQUESTED FOR:  Fire Code Violation History Current occupant Previous occupant Hazardous Materials Disclosure Current occupant Previous occupant Vinderground storage tanks  Environmental Records Previous occupant Vinderground storage tanks  INFORMATION REQUESTED BY:  Amada Lagunas Amada La	Name of business				
Garden Grove  City Phase I Environmental Site Assessment  Reason for Request  TIRE CODE ENFORCEMENT INFORMATION REQUESTED FOR:  Fire Code Violation History Permits Current permits Current permits on file for address  Hazardous Materials Disclosure Current occupant Current permits Environmental Records Current occupant Current occupant Current permits Current permi					
Phase I Environmental Site Assessment Reason for Request  IRE CODE ENFORCEMENT INFORMATION REQUESTED FOR:  Fire Code Violation History    Current occupant   Current permits   Previous occupant   Majed   Previous occupant   Pre				Suite no.	
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Previous occupant	Fire Code Violation History	Permits			
Previous occupant	☐ Current occupant	Current permits			
Hazardous Materials Disclosure  Current occupant  Previous occupant  Other Specify:  INFORMATION REQUESTED BY:  Amada Lagunas  For or requester Fulcrum Resources Environmental  Requester's company name 261.0 Gardi Street  Requester's company name 261.0 Gardi Street  Requester's dadress Duarte  City  For Official USE ONLY  Date received:  Records found:  Yes No.	☐ Previous occupant	and the same of th	for address	3	
Current occupant  Previous occupant  Other Specify:  Amada Lagunas Amee of requester Fulcrum Resources Environmental Requester's company name 2610 Gardi Street Requester's street address Duarte  City  Would you like your information: Faxed  Mailed  Maile	Lawardana Buntariala Piantana				
Other Specify:					
Other Specify:			age tanks		
INFORMATION REQUESTED BY:  Amada Lagunas  626.228.7361  Name of requester Fulcrum Resources Environmental Requester's company name 2610 Gardi Street  Requester's street address Duarte  City  Would you like your information: Faxed  For Official USE ONLY  Trade secret: Yes No  626.228.7361  800.385.7126  Fax number  Fa	→ L¾ Previous occupant				
INFORMATION REQUESTED BY:  Amada Lagunas 626.228.7361 800.385.7126  Name of requester Fulcrum Resources Environmental Requester's company name 2610 Gardi Street Requester's street address Duarte City City Would you like your information: FOR OFFICIAL USE ONLY Trade secret: Yes No	Other				
Amada Lagunas  Requester Fulcrum Resources Environmental  Requester's company name 2610 Gardi Street  Requester's street address Duarte  City  Would you like your information: Faxed Mailed Held for pick-up  FOR OFFICIAL USE ONLY  Records found: Yes No.	Specify:				
Amada Lagunas  Requester Fulcrum Resources Environmental  Requester's company name 2610 Gardi Street  Requester's street address Duarte  City  Would you like your information: Faxed Mailed Held for pick-up  FOR OFFICIAL USE ONLY  Records found: Yes No.					
Amada Lagunas  Requester Fulcrum Resources Environmental  Requester's company name 2610 Gardi Street  Requester's street address Duarte  City  Would you like your information: Faxed Mailed Held for pick-up  FOR OFFICIAL USE ONLY  Records found: Yes No.					
Name of requester Fulcrum Resources Environmental  Requester's company name 2610 Gardi Street  Requester's street address Duarte  CA 91010  City  Would you like your information: Faxed Mailed Held for pick-up (payment a time of pick of pi	INFORMATION REQUESTED BY:				
Name of requester Fulcrum Resources Environmental  Requester's company name 2610 Gardi Street  Requester's street address Duarte  CA 91010  City  Would you like your information: Faxed Mailed Held for pick-up (payment a time of pick of pi	Amada Lagunas	626. 2	228 7361	800 385 7126	
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Duarte  City  Would you like your information: Faxed Mailed Held for pick-up time of pick point and pick point					
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Trade secret: Yes No				EUU.	
Trade secret: Yes No.	Date received:	Records for	ound: 🗀	Yes No-	
	Trade secret: Type Tipe				
Requester notified by:  Information released:					
	Requester notified by:	Information	n released:		



#### **CITY OF GARDEN GROVE**

#### FIRE DEPARTMENT

June 15, 2015

Records Search for 11552 Anabel Ave Garden Grove, CA 92843

To Whom it May Concern:

Enclosed are the records found concerning the history of the above-mentioned site(s), especially as it pertains to fire code violation history, permits, the use, storage, or disposal of hazardous substances, and the installation or removal of underground flammable or combustible liquid storage tanks.

The City of Garden Grove Fire Department has utilized its best efforts to locate the records requested. However, the City makes no representation as to the accuracy of the records or that all records requested were retained or located. The City does not provide records on spills, leaks or clean-up, as that information is provided through the County of Orange Health Dept.

Sincerely

Nate Brady

Division Chief/Fire Marshal

By:

Thanh Nguyen

Fire Captain/Senior Fire Protection Specialist

400 D&S	CUSTOM PLATING INC.	1	1552 ANABE Max Daily A		Not Used	/Used
Common Name			•	Gallons	NOT USEG	promine
	WASTE METAL HYDROXIDE SI	LUDGE, 500GAL		Grid D-9	Delete	Modify
Cas #	Location	OUTSIDE-ADJACENT TO	SOUTH WA	\LL		
Common Name		Accesses 1	1100	Pounds		paulinierinous
	WASTE METAL HYDROXIDE SI	_UDGE, 1,100GAL	Map 1	Grid D-9	Delete	Modify
Cas #	Location	OUTSIDE- ADJACENT TO	O SOUTH FE	NCE		
Common Name	ACID ETCH 333	***************************************	90	Gallons		gundaro(niina -
	SULFURIC ACID MIXTURE		Map 1	Grid E-7, D	Delete	Modify
Cas #	Location	outside-south fence, insid	le-plating area	а		
Common Name	ACID SALT 340	And the state of t	90	Gallons		DISEA PROMISE AND ASSESSMENT OF THE PROPERTY O
Chemical Name	SODIUM HYDROGEN SULFATE	MIXTURE	Map 1	Grid C-9,	Delete _	Modify
Cas #	Location	outside-adjacent to south	fence, inside	-in plating a	rea	
Common Name	ALUM CHROME STRIP		250	Gallons		gordonna spirote
Chemical Name	SODIUM HYDROXIDE MIXTURI	E	Map 1	Grid C-9,	Delete _	Modify
Cas #	Location	OUTSIDE-ADJANCENT T	ГО SOUTH F	ENCE, INS	IDE-PLAT	ING AREA
Common Name	CAUSTIC SODA 50% MIXTURE		100	Gallons		grandenselelveld
Chemical Name	SODIUM HYDROXIDE		Map 1	Grid E-7,	Delete _	_ Modify
Cas #	Location	OUTSIDE-SOUTH WALL	OF BLD, IN	SIDE-IN PLA	ATING AR	EA
Common Name	CHROME STRIP		80	Gallons		groundwidelicinis -
Chemical Name	MURIATIC ACID MIXTURE		Map 1	Grid D-4,	Delete _	_ Modify
Cas #	Location	WITHIN PLATING AREA				
Common Name	CHROMIC ACID SOLUTION		450	Gallons	\$255.504 \$1	OTO Microsoft Addressed
	CHROMIC ACID SOLUTION		Map 1	Grid D-4,	Delete _	_ Modify
Cas #	1333-82-0 Location	WITHIN PLATING AREA	COLOR			
Common Name	CLEANER 220TT			Gallons	\$5.00 J	Bill More abstraction of the second sec
	SODIUM HYDROXIDE MIXTURI		Map 1	Grid C-9,		
Cas #	Location	OUTSIDE-ADJACENT TO	SOTH FEN	CE, INSIDE	-IN PLAT	NG AREA
	CLEANER CH98		250	) Gallons		photosississississis
	SODIUM HYDROXIDE MIXTUR		Map 1			_ Modify
Cas #	1310-73-2 Location	OUTSIDE-ADJACENT TO	SOUTH FE	NCE, INSID	E-IN PLAT	TING AREA
	COPPER PLATE			Gallons		
	COPPER PLATING SOLUTION		Map 1	Grid D-4,	Delete	_ Modify
Cas #	Location	WITHIN PLATING AREA				
	MURIATIC ACID MIXTURE		20	) Gallons		gillatura 433404-"
	HYDROCHLORIC ACID		Map 1	•		_ Modify
Cas #	Location	OUTSIDE-COVERED AR	LEA, INSIDE-	WITHIN PL	ATING AF	EA
	NICKEL PLATE			Gallons	F-904	And the second second
	NICKEL PLATING SOLUTION		Map 1	Grid D-4,	Delete _	_ Modify
Cas #	Location	WITHIN PLATING AREA				
	NICKEL PLATE			) Gallons		en-protections
	NICKEL PLATING SOLUTION	MATERIAL OF ATOLOGICA	Map 1	Grid D-4,	Delete	_Modify
Cas #	Location	WITHIN PLATING AREA				

400 D&S	CUSTOM PLATING INC		1			BEL Ave Amount	Not Use	1/Used
	NICKEL STRIKE NICKEL PLATING SOL		00GAL WITHIN PLATING AREA	Мар	1	00 Gallons		Modify
Common Name Chemical Name Cas #	SULFURIC ACID MIXT		WITHIN PLATING AREA	Мар		80 Gallons Grid D-4,	Delete _	_ Modify
Common Name Chemical Name Cas #	NITRIC ACID MIXTURE		WITHIN PLATING AREA	Мар		80 Gallons Grid D-4,	Delete _	_ Modify
	SODIUM BIFLUORIDE SODIUM BIFLUORIDE		WITHIN PLATING AREA	Мар		90 Gallons Grid D-4,	Delete _	Modify
Chemical Name	SULFURIC ACID SULFURIC ACID 7664-93-9	Location	OUTSIDE-ADJACENT TO	Map SOU	1		_	Modify
	WASTE NITRIC ACID WASTE NITRIC ACID I		OUTSIDE- ADJACENT TO	Map O SOL	1		Delete _	Modify
	WASTE WATER WASTE WATER	Location	OUTSIDE- COVERED AR	Map EA, II	1	,	_	Modify
Common Name Chemical Name Cas #		Location	WITHIN PLATING AREA	Мар		90 Gallons Grid D-4,	Delete _	Modify
Common Name Chemical Name Cas #	ZINCATE, 450GAL	Location	WITHIN PLATING AREA	Мар		950 Gallons Grid D-4,	Delete _	_ Modify
	ZINCATE STRIP POTASSIUM MONOPE		ΓΕ WITHIN PLATING AREA	Мар	1	90 Gallons Grid D-4,	Delete _	Modify

# **GARDEN GROVE**



# FIRE DEPARTMENT

# HAZARDOUS MATERIALS DISCLOSURE PROGRAM

REPORTING FORMS PACKET

SHORT VERSION

FOR OFFICIAL USE ONLY
FACILITY ID NO. 400
BUSINESS NAME D+S Custom Plating
BUSINESS ADDRESS 11552 anabel
APPROVED BY DATE 2/2011
NEW BUSINESS YES NO UPDATE
PICK 4D BUSLIST CALARP: CUPA: GIS
FEE





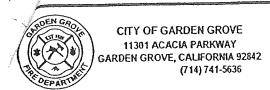
#### CITY OF GARDEN GROVE FIRE DEPARTMENT

11301 Acacia Parkway, Garden Grove, CA 92842 (714) 741-5600 (714) 741-5636

Hazardous Materials Business Information Form

		Pa	ge of	3
BUSINESS	INFORMATION			
FACILITY# 3 0 0 3 5	BEGINNING DATE	1	ENDING DATE	2
BUSINESS NAME D&S CUSTOM PLATIN	-9	4	BUSINESS PHONE 714 537-5411	5
BUSINESS SITE ADDRESS 11552 ANABEL				6
CITY GARDEN GROVE	7	STATE 8	91243-370	7 9
DUN & BRADSTREET 92-815-1943	10 SIC CODE (4 DIGIT:	#) 11	FIRE DISTRICT	12
COUNTY ORANGE				13
BUSINESS OPERATOR NAME DOUG BUSH	14	OPERATOR'S PH	10NE 137-5411	15
	SS OWNER		Andrews Commence of the Commen	
OWNER NAME Doug Bush		16	OWNER PHONE	17
OWNER MAILING ADDRESS 11552 ANABEL			<u></u>	18
GARDEN GROVE	19	STATE 20	92843-3707	21
ENVIRONME	NTAL CONTACT	A silver and a silver		
TACT NAME Doug Busil		22	CONTACT PHONE 714 537-5411	23
CONTACT MAILING ADDRESS 11552 ANABEL				24
GARDEN GROVE	25	STATE 26	92843-3707	27
PRIMARY EMERGEN	CY CONTACTS		SECONDARY	
NAME SUSAN L. MOON	NAME DERRIKK	Nolam	,	33
TITLE C.F.O.	MANGER			34
BUSINESS PHONE 3				35
24-HR. PHO 3				36
PAGER# 3.	2 PAGER#			37
ADDITIONAL LOCALLY (	COLLECTED INFOR	MATION		
DESCRIBE THE TYPE OF BUSINESS OPERATION:  DECRHIVE CHROME EIECT	_	38	TOTAL#OF EMPLOYEES	39
BILLING ADDRESS (IF DIFFERENT FROM ABOVE)	J	40	ATTENTION'	41
PROPERTY OWNER NAME  12 ADDRESS  1524 NETHIN	DAVE. PLACENTIA	, 43	<del></del>	44
Certification: Based on my inquiry of those individuals respons have personally examined and am familiar with the information sul	sible for obtaining the info	rmation, I cer ormation is tru	tify under penalty of law ue, accurate, and comple	that I te.
SIGNATURE OF OWNER/OPERATOR OR DESIGNATED REPRESENTATIVE		45	DATE - 10 - 11	46
N. WE OF SIGNER (Print) 47	NAME OF DOCUMENT PRE	PARER (print	)	49
TITLE OF SIGNER ( 13 ( )		PARER		· 50

FACILITY INFORMATION



# CUPA

# **BUSINESS ACTIVITIES**

		•		PageJ of
I. FACILITY II	DENTIFICA	TION	fagtski)	
		(Hazardo)	ıs Wa	ste Only) 2.
ACILITY ID# 3 0 0 3 5	Crxib,	LAB		00140764
BUSINESS NAME (Same as FACILITY NAME or DBA-Doing Business A				3.
BUSINESS NAME (Same as FACILITY NAME OF DRA-DOING COSMOSO	,			
ii. ACTIVITIE	S DECLA	RATION		
NOTE: If you check Y	ΈS to a	iny par	t of I	this list,
please submit the Business C	 )wner/0	nerato	r Ide	entification page.
please submit the business c	/wiici/ C	PUILI		
Does your facility		Yes, ple	ase o	complete these pages of the UPCF
A. HAZARDOUS MATERIALS				A THE POWER AND TERM CHANGE TO THE
Have on site (for any purpose) hazardous materials at or above 55	YES	Пио	4.	✓ HAZARDOUS MATERIALS INVENTORY - CHEMICAL DESCRIPTION (Form 3)
gallons for liquids, 500 pounds for solids, or 200 cubic feet for				CHEMICAL DESCRIPTION (Foliation)
compressed gases (include liquids in ASTs and USTs); or the			l	4
applicable Federal threshold quantity for an extremely hazardous			- 1	
substance specified in 40 CFR Part 355, Appendix A or B; or handle radiological materials in quantities for which an emergency plan is			1	
required pursuant to 10 CFR Parts 30, 40 or 70?				
B. UNDERGROUND STORAGE TANKS (USTs)				
Own or operate underground storage tanks?	YES	□ио	5.	✓ UST FACILITY (Formerty SWRCB Form A)
			1	✓ UST TANK (one page per tank) (Formerly Form B)
2. Intent to upgrade existing or install new USTs?	YES	□ио	6.	✓ UST FACILITY
				✓ UST TANK (one per tank)
				✓ UST INSTALLATION - CERTIFICATE OF
				COMPLIANCE (one page per tank) (Formerly
	☐ YES	Пио	7.	Form C)  UST TANK (closure portion-one page per tank)
3. Need to report closing a UST?	<u> </u>	<u></u>		
C. ABOVE GROUND PETROLEUM STORAGE TANKS (ASTs)				
Own or operate ASTs above these thresholds:	YES	Пио	8.	✓ NO FORM REQUIRED TO CUPAS
- any tank capacity is greater than 660 gallons, or		□		•
<ul> <li>the total aggregate capacity for the entire facility (ASTs, drums and portable containers) greater than 1,320 gallons?</li> </ul>				
D. HAZARDOUS WASTE				
Generate hazardous waste?	YES	□ио	9.	✓ EPA ID NUMBER - provide at the top of this page
2. Recycle more than 100 kg/month of excluded or exempted recyclable	YES	□ио	10.	✓ RECYCLABLE MATERIALS REPORT
materials (per HSC §25143.2)?				(one per recycler)
· -			٠, ١	✓ ONSITE HAZARDOUS WASTE
3. Treat hazardous waste on site?	YES	Пио	11.	TREATMENT - FACILITY
	1			
				(Formerly DTSC Forms 1772)
				✓ ONSITE HAZARDOUS WASTE
				TREATMENT - UNIT (one page per unit)
	1			(Formerly DTSC Forms 1772A,B,C,D and L)
4. Treatment subject to financial assurance requirements (for Permit by	YES	☐ NO	12.	✓ CERTIFICATION OF FINANCIAL
4. Treatment subject to financial assurance requirements (for Fermice)  Rule and Condition Authorization)?	1			ASSURANCE (Formerly DTSC Form 1232)
Consolidate hazardous waste generated at a remove site?	YES	□ио	13.	✓ REMOTE WASTE/CONSOLIDATION SITE
O. OVIDORIDATO NALESTATE DESTRUCTION OF THE PROPERTY OF THE PR		•		ANNUAL NOTIFICATION (Formerly DTSC
				Form 1196)
6. Need to report the closure/removal of a tank that was classified	YES	□ио	14.	✓ HAZARDOUS WASTE TANK CLOSURE
waste and cleaned onsite?				GERTIFICATION (Formerly DTSC Form 1249)
E. LOCAL REQUIREMENTS				
:			40	✓ REGULATED SUBSTANCE REPORTING
Cal-ARP: California Accidental Release Prevention Program	YES	□ио	15.	FORM (Orange County CUPA)
H&SC Chapter 6.95, Article 2, §25531 et seq				1 Older Change obdity 55179
<ul> <li>Stationary Source with more than a Threshold Quantity of a Regulated</li> </ul>				
Substance in a Process	J			

# 1.0 PURPOSE, REVIEW AND AMENDMENT

#### 1.1 General Business Information

N 8 /	.9 .	D:	
Name of Business: D & 5	Custor	n Plating	
Address: 11552 A	NABEL_		
City: GARDEN GROVE		State: CA	Zip: 92843
1 0/11-30			
Phone No.:(714) 537-5	41( E	mergency Phone No.	
		<b>7</b>	SIC No.: 3471
Description of Business: Po	lishing &	MATING	Sicho. 3 i ii
NI. of Employage:	Operating Hrs	s.: 110	Days per Week: 5
No. of Employees:	Operating		
Business Owner: Douglas	Bush	Phone No.:(714)	537-5411
Property Owner: DouglAs		Phone No.:(714) 5	537-5411
EPA ID No.:		-	
NATURE OF HAZAR	DS OR EVENT	S THIS PLAN WIL	L BE USED FOR:
Fires			
Chemical Sp	~ C115		
			,
			,

1.2 Purpose. This Contingency Plan has been designed to minimize hazards to human health or the environment from fires, explosion or any unplanned sudden or non sudden release of hazardous materials, hazardous waste or hazardous waste constituents to air, soil or surface water. The provisions of this plan shall be carried out immediately whenever there is a fire, explosion or release of hazardous materials, hazardous waste or hazardous waste constituents which could harm human health or environment.

**Referenced Documents.** The following documents, regulations, and health & safety programs have been integrated into this contingency plan:

Contingency Plan and Emergency Procedures 22CCR 66265.50 Hazardous Waste Generator Requirements 22CCR 66262.34 On-Site Treatment of Hazardous Waste 2CCR 66265 CAL/OSHA Emergency Action Plan 8CCR 3220 CAL/OSHA Hazard Communication Standard 8CCR CAL/OSHA Fire Prevention Program 8CCR Storm Water Pollution Prevention 40CFR 122

#### 1.4 Review & Approval

This Hazardous Material and Waste Contingency/Emergency Response Plan has been prepared under my direction or supervision. The information contained in this Contingency/Emergency Response Plan is, to the best of my knowledge and belief, true, accurate and complete and is hereby approved. The provisions of this plan shall bee carried out immediately whenever there is a fire, explosion, release or threatened release of hazardous materials or hazardous waste that could threaten human life or environment.

Dauglas Bush	C.E.O.	
Douglas Bush Printed Name	Title	
Day Bush Signature & Bush	2-3-11 Date	

#### 1.5 Record of Review & Amendment

SECTION & PARAGRAPH & PURPOSE	REVISION	DATE
Asterisks are not used in this revision to identify changes with respect to the previous issue due to the extensiveness of the reorganization of this document. No changes in policy or procedures have been made as a result of this reorganization revision.	A	1/2000
Section 9.4 Electrical Power Failure, was added. Section 11.0 AMENDMENT & TESTING OF THE CONTINGENCY PLAN, was added.	В	6/2001
Plan reviewed, no changes required.	В	12/2003
Plan revised to meet the requirements of the California Consolidated Continency Plan	C	03/2005
Plan reviewed, no changes made.	C	01/15/07
Plan reviewed, no changes made.	C	01/15/08
Plan reviewed, no changes made.	C	01/15/09
Plan reviewed, no changes made.	С	01/11/10
Plan reviewed, no changes made.	C	01/14/11

#### 2.0 EMERGENCY SITUATIONS & REPORTING

2.1 Discovery of an incident.

2.2 Emergency Situations. Whenever there is an imminent or actual emergency situation (i.e. a fire, explosion, spill, release, or threatened release of a hazardous material or hazardous waste) the incident will be reported to the Emergency Coordinator and/or the senior management person in the facility immediately.

The Emergency Coordinator will:

- 1. Determine if the fire, explosion, spill, release, or threatened release can be controlled by the employees in the immediate work area and/or maintenance personnel.
- 2. Activate internal facility alarms or communication system, where applicable, to notify all facility personnel.
- 3. Notify appropriate local response agencies if off-site help is needed and/or if evacuation of the local areas is required.

2.3	Facility Internal Notification. Facility emergency communication will occur through: (check all that apply)
	✓ Verbal ☑ Telephone ☐ Alarm System   ✓ Public Address System ☑ Intercom ☐ Pagers   ☐ Portable Radios ☑ Air Horn   ☐ Other:
	Individual(s) Responsible for Spreading Alarm
	Doug Bush
	DERRIKK NOLAND
	SUSAN MOON
	CARMEIO GUTIERREZ
2.4	External Notification. Any release or threatened release of any hazardous material or waste is reportable, pursuant to the State Community Right-to Know Law, unless there is a reasonable belief that there is no present or potential hazard to human life, the environment or property. If the incident is reportable, the Emergency Coordinator and/or the senior management person in the facility will immediately report the release or threatened release to the following emergency response agencies:
	<ol> <li>Local Emergency Response Agency 911 *</li> <li>Be sure to advise them that it is Hazardous Material Incident, so that the correct repose units will be dispatched.</li> </ol>
	2. Local Administering Agency (CUPA) (714 ) 433 - 6000
	3. State Office of Emergency Services 800-852-7550
	4. National response Center 800-424-8802
	5. Additional Agency -
	The immediate reporting must include, as a minimum:
	1. Name and telephone number of person making report.
	2. Name and address of facility.
	3. Time and type of incident.
	4. Name and quantity of material(s) involved, to the extent known.
	5. The extent of injuries, if any.
	6. The possible hazards to human health, or the environment, outside the notification.
	7. Current condition of facility.

Arrangement for Emergency Services. To familiarize our local fire department, 2.5 police department and hospitals, a copy of our Unified Program Business Plan/Contingency Plan has been provided to them.

Local Fire Department

Date: 2-13-01

Local Police Department Date: 2-13-01

Local Hospital(s)

Date: 2-13-01

# 3.0 EMERGENCY COORDINATOR

# 3.1 Emergency Coordinator(s)

Eme	ergency Coordinator
Name: Doug Bush	
Home Phone No	Pager-No
Address:	
City	State: CA Zij
Alternate	e Emergency Coordinator
Name: DERRIKK NOIAND	CELL
Home Phone No.: ( ) NonE	Pager No
Address:	· · · · · · · · · · · · · · · · · · ·
City:	State: CA Zip:
Name: Susan Mooni Home Phone No. Address: City:	e Emergency Coordinator  Pager No  State: CA Zip:
Alternat  Name: Susai Mood  Home Phone No.  Address:  City:  Alternat	e Emergency Coordinator  CELL  Pager No
Alternat  Name: Susai moon  Home Phone No.  Address:  City:  Alternat  Name:	e Emergency Coordinator  Pager No  State: CA Zip:
Alternat  Name: Susai Mood  Home Phone No.  Address:  City:  Alternat	e Emergency Coordinator  Pager No  State: CA Zip:
Alternat  Name: Susai moon  Home Phone No.  Address:  City:  Alternat  Name:	e Emergency Coordinator  Pager No  State: CA Zip:

#### 3.2 Emergency Coordinator Responsibilities.

- 3.2.1 The emergency coordinator shall be an employee who is either on the premises of the facility or on-call, is responsible for coordinating the facility's emergency response procedures.
- 3.2.2 The emergency coordinator will be familiar with all aspects of the facility's operation, its activities, its layout, its contingency plan, the location and characteristics of hazardous materials and hazardous wastes managed at the facility, and the location of records at the facility.
- 3.2.3 The emergency coordinator has the authority to implement this contingency plan, including the authority to commit the necessary resources to accomplish the provisions of this plan and interface with public agency responders.
- 3.2.4 It there is a fire, explosion or release of hazardous materials, hazardous waste or hazardous waste constituents, the emergency coordinator shall immediately determine the character, source, amount and real extent of the release, using observation, facility records and manifests. Chemical analysis may also be used to characterize the release.
- 3.2.5 Evaluate the possible hazardous impact of the release, fire or explosion on human health and the environment, considering both direct effects (such as the effect of any toxic or irritating gases that may be generated) and indirect effects (such as the effect of any surface water run-off generated by water or chemical agents used to control fires).
- 3.2.6 If the emergency coordinator determine that the fire, explosion or release could threaten human life or the environment outside the facility, the coordinator must immediately notify the appropriate local authorities, if surrounding areas require evacuation. In all cases, the emergency coordinator must also notify the State Office of Emergency Services.
- 3.2.7 During an emergency, the emergency coordinator must take reasonable measures to ensure that fires, explosions or releases do not occur, recur or spread to other hazardous materials or hazardous wastes at the facility.
- 3.2.8 If appropriate, the emergency coordinator shall stop processes and operations, and, if it is safe to do so, collect and contain release waste and remove or isolate containers.
- 3.2.9 If the facility operations are stopped, the emergency coordinator shall, wherever appropriate and when conditions are safe, monitor the facility equipment for leaks, pressure buildup, gas generation, or ruptures in valves, pipes or other equipment.

- 3.2.10 Immediately after any emergency, the emergency coordinator shall make arrangements for treating, storing and/or disposing of recovered waste, contaminated soil or surface water, or any other material resulting from the incident.
- 3.2.11 Unless it can be demonstrated that the recovered material is not a hazardous waste all applicable generator standards apply.
- 3.2.12 The emergency coordinator must ensure that until the released material is completely cleaned up, no waste that may be incompatible with the released material may be transferred, treated, stored or disposed of in the affected areas.
- 3.2.13 The emergency coordinator must ensure that all emergency equipment listed in the contingency plan is clean and fit for its intended use before facility operations resume.
- 3.2.14 In order to resume operations in the affected areas, the owner/operator of the facility must notify the Department of Toxic Substance Control and appropriate state and local authorities that no incompatible wastes are in contact with the affected areas and all emergency equipment listed in the contingency plan is ready for use.

15 Additio	nal Responsibilities	
		/

#### 3.3 Preliminary Assessment

3.3.1 Area of the facility where releases could occur or would require immediate inspection or isolation because of the vulnerability to earth quake related ground motion.

☐ Hazardous Waste Storage Areas	☐ Hazardous Waste Treatment Areas
☐ Hazardous Materials Storage Areas	☐ Production Floor
☐ Process Tanks & Systems	o .
<b>O</b> ·	

3.3.2 Mechanical systems where releases could occur or would require immediate inspection or isolation because of the vulnerability to earth quake related ground motion.

	· · · · · · · · · · · · · · · · · · ·
☐ Utilities	☐ Tanks
☐ Shelves	☐ Cabinets
☐ Gas Cylinders	☐ Pressure Vessels
☐ Shutoff Valves	☐ Sprinkler Systems
☐ Process Piping	☐ Waste Treatment Systems
П	О
	О

#### 4.0 OFF-SITE EMERGENCY SERVICES

4.1 Off-Site Emergency Services. If the fire, explosion, spill, release, or threatened release cannot be controlled by the employees in the immediate work area and/or maintenance personnel, the local emergency services will be contacted.

Local Emergency Response Agency 911 \*

\* Be sure to advise them that it is Hazardous Material Incident, so that the correct repose units will be dispatched.

- 4.2 Local Emergency Services. Local emergency services will be familiarized with:
  - 1. The facility layout.
  - 2. Properties of the hazardous materials and hazardous waste handled.
  - 3. Locations where facility employees typically work.
  - 4. Entrance to and roads within the facility.
  - 5. Possible evacuation routes.
  - 6. Types of injuries or illnesses that could result from emergencies.

This will be accomplished via the Hazardous Material Business Plan and Inventory that is administered by the CUPA. Additional information will be made available as required by local Emergency Services. Any arrangements made for emergency services will be appropriate for the type of hazardous material and hazardous waste managed at our facility and the potential need for the emergency service provided by these agencies.

Phone No.: (

State: CA

Zip:

**Medical Assistance.** Any employee affected by exposure to hazardous materials and/or hazardous waste as a result of fire, explosions, unplanned sudden or non-sudden releases or spills should be transported to:

Facility Name:		I Hone ito ( )
Address:		
City:		State: CA Zip:
4.3	First Aid. Membe and CPR.	ers of the Emergency Action Team will be trained in First Aid
4.4	Hazardous Mater	rial Disposal Company
Company:		
Phone No.	:()	Emergency Phone No.: ( )
Address:		

City:

#### 5.0 EVACUATION PLAN

#### 5.1 Employee Alarm System

- **5.1.1 Procedure.** In the event of a fire or other major disaster that would require evacuation of the building of non-essential personnel, the Employee Alarm System will be used.
- **5.1.2 Alarm Backup.** If employee alarm system is inoperable, employees will be notified by their supervisors and/or members of the Emergency Action Team.
- 5.1.3 Testing of Alarm System. The alarm system will be tested annually.

#### 5.2 Evacuation Plan

- **5.2.1 Evacuation Authorization.** Authorization to evacuate the facility shall be determined by the Emergency Coordinator and/or responsible company management official.
- **5.2.2 Evacuation Procedures.** When the Employee Alarm System is given to evacuate the facility, all employees will:
  - 1. Stay calm.
  - 2. Turn off equipment.
  - Leave the building by the predetermined routes unless blocked; have secondary routes always in mind.
  - 4. Do not go into other areas to get personal belongings.
  - 5. Assemble at the Evacuation Staging area.
  - 6. Do not return to building unless authorized to do so.
- Emergency Action Team. The Emergency Action Team will be made up of the Emergency Coordinator, Alternative Emergency Coordinators and other trained employees in accordance with our Emergency Action Plan. The Emergency Action Team will assist in the safe and orderly emergency evacuation of employees.
  - 1. Team members should be completely familiar with evacuation routes and alternatives.
  - 2. Team members should notify employees, direct them and maintain order.
  - 3. Team members shall make a thorough search of their areas, with special attention to those areas not always occupied:
    - a. Restrooms/Locker rooms
    - b. Conference rooms
    - e. Lunch rooms
    - d. Offices
    - e. Other isolated areas

- 5.4 Accountability of Personnel. All personnel will be accounted for and checked for personal injury in the Evacuation Staging Area.
  - **5.4.1 Employees.** Attendance will be taken in the Evacuation Staging Area by supervisors to account for all employees.
  - 5.4.2 Visitors. The Visitors Register will be checked to account for all visitors.

5.5 Site & Evacuation Map With Primary and Alternate Routes.

# 6.0 HAZARDOUS MATERIAL & WASTE INVENTORY

6.1 Hazardous Material & Waste Inventory. An inventory of hazardous materials and hazardous waste will be maintained in accordance with the Company's Hazard Communication Program.

# 7.0 EMERGENCY EQUIPMENT

7.1 Emergency Equipment Inventory. An up to date inventory shall be maintained of all emergency equipment, showing where the equipment is required, its location, a physical description and an outline of its capabilities.

	Date:
Description: FIRE EXTINGUISHER	Date.
Where required:	
Location:	
Outline of Capabilities:	1
	Date:
Description: SPILL CONTROL EQUIPMENT	Dutci
Where required:	
Location:	
Outline of Capabilities:	
TON GUCTEM	Date:
Description: INTERNAL COMMUNICATION SYSTEM	
Where required:	
Location:	
Outline of Capabilities:	
TO LEVEL TO M. C. V. C. T. C. M.	Date:
Description: EXTERNAL COMMUNICATION SYSTEM	Dato
Where required:	
Location:	
Outline of Capabilities:	
	Date:
Description: ALARM SYSTEM	
Where required:	
Location:	
Outline of Capabilities:	

Description: EMERGENCY EYEWASH/SHOWER	Date:
Where required:	
Location:	
Outline of Capabilities:	
Description: FIRST AID SUPPLIES	Date:
Where required:	
Location:	
Outline of Capabilities:	
	Date:
Description: PERSONAL PROTECTIVE EQUIPMENT	Datt.
Where required:	
Location:	
Outline of Capabilities:	
·	
Description: DECONTAMINATION EQUIPMENT	Date:
Where required:	
Location:	
Outline of Capabilities:	
Description:	Date:
Where required:	
Location:	
Outline of Capabilities:	
Description:	Date:
Where required:	
Location:	
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Description:	Date:
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Location:	
Outline of Capabilities:	
Outline of Capabilities.	
Description:	Date:
Where required:	
Location:	
Outline of Capabilities:	

7.2 Emergency Equipment Location Map

### 8.0 EMERGENCY RESPONSE PLANNING

8.1	Emerg follow	gency Planning. The emergency planning process shall consider the ing:
		Identification of foreseeable hazardous material and waste incidents.
		Determination of the hazards associated with each incident and the appropriate protective equipment required.
	O	Determination of the appropriate on-site response to each incident given available personnel and equipment resources.
		Development of specific emergency response procedures to effectively respond to each planned incident to the extent needed.
		Identification of the personnel resources needed and assure their qualifications.
		Identification of personal protective equipment necessary for the planned response.
		Identification of release control containment equipment, clean-up equipment and supplies, and decontamination for planned response.
		Identification of off-site emergency response resources.
8.2	release	ent Response Planing Guidelines. In the event of a fire, explosion, spill, e, or threatened release of a hazardous material or hazardous waste, yees in the immediate area and/or maintenance personnel who have been in emergency action response procedures will do the following:
		1. NOTIFY EMERGENCY COORDINATOR
		2. EMERGENCY COORDINATOR PERFORMS INCIDENT EVALUATION.  ☆ ARRIVE — AND OBSERVE WHAT HAS HAPPENED AND WHAT IS KNOWN.
		☆ ASSESS - WHAT IS THE SCOPE OF THE PROBLEM?
		☆ ACT WITH A PLAN – WHAT ARE THE APPROPRIATE ACTIONS TO TAKE?
	<u> </u>	ASSIGN – ISSUE ASSIGNMENTS TO AVAILABLE QUALIFIED EMPLOYEES
		☆ ADJUST – BE PREPARED TO MAKE CHANGES.

- 3. PREPARE PLAN OF ACTION
- 4. SITE SECURITY AND CONTROL PLAN IMPLEMENTED
- 5. USE CORRECT PERSONAL PROTECTIVE EQUIPMENT
- 6. RESCUE/EVACUATE AS NECESSARY
- 7. SHUT OFF THE SOURCE
- 8. ELIMINATE FLAME
- 9. VENTILATE AREA
- 11. CONTAIN THE SPILL PROTECT RECEPTORS
- 12. CLEAN UP THE SPILL
- 13. DECONTAMINATE
- 14. DISPOSAL
- 15. RESTORE EMERGENCY RESPONSE EQUIPMENT.
- 16. INCIDENT RESPONSE CRITIQUE
- 17. REPORTING FOLLOW-UP
- **8.3 Incident Pre-Planning.** An *Emergency Response Pre-Planning Procedure* form will be developed for each foreseeable hazardous material/waste incident based on materials at the facility.

# 9.0 EMERGENCY RESPONSE PROCEDURES

- 9.1 Emergency Action for All Employees. In the event of fire, explosion, spill, release, or threatened release of a hazardous material or hazardous waste, all employees will do the following:
  - 1. GET AWAY FROM THE AREA.
  - 2. IDENTIFY.
  - 3. NOTIFY. Report the fire, explosion, spill, release, or threatened release of a hazardous material or hazardous waste, immediately to your Supervisor and/or Emergency Coordinator Team member.
- 9.2 Mitigation. Coincident with reporting, the employees and/or maintenance personnel in the immediate release area will immediately commence cleanup and containment of the spill or release and carry out all necessary action to mitigate the release in accordance with their instructions and emergency response procedures.
- 9.3 Emergency Response Action Plan. In the event of a fire, explosion, spill, release, or threatened release of hazardous materials or waste, an *Emergency Response Action Plan* form will be used to develop a response plan of action.
- 9.4 Electrical Power Failure. In the event of a electrical power failure (rolling blackouts), the *Electrical Power Failure Action Plan* will be followed.

#### 10.0 DECONTAMINATION PROGRAM

- 10.1 Decontamination Procedures. Decontamination procedures shall be developed, communicated to employees, and implemented before any employees or equipment may enter areas on site where potential for exposure to hazardous substances exists.
  - (A) Standard operating procedures shall be developed to minimize employee contact with hazardous substances or with equipment that has contacted hazardous substances.
  - (B) All employees leaving a contaminated area shall be appropriately decontaminated; all contaminated clothing and equipment leaving a contaminated area shall be appropriately disposed of or decontaminated.
  - (C) Decontamination procedures shall be monitored by the site safety and health supervisor to determine their effectiveness. When such procedures are found to be ineffective, appropriate steps shall be taken to correct any deficiencies.
- 10.2 Location. Decontamination shall be performed in geographical areas that will minimize the exposure of uncontaminated employees or equipment to contaminated employees or equipment.
- 10.3 Equipment and Solvents. All equipment and solvents used for decontamination shall be decontaminated or disposed of properly.

### 10.4 Personal protective clothing and equipment.

- (A) Protective clothing and equipment shall be decontaminated, cleaned, laundered, maintained, or replaced as needed to maintain its effectiveness.
- (B) Employees whose non-impermeable clothing becomes wetted with hazardous substances shall immediately remove that clothing and proceed to shower. The clothing shall be disposed of or decontaminated before it is removed from the work zone.
- 10.5 Unauthorized Employees. Unauthorized employees shall be instructed not to remove protective clothing or equipment from change rooms.
- 10.6 Commercial Laundries or Cleaning Establishments. Commercial laundries or cleaning establishments that decontaminate protective clothing or equipment shall be informed of the potentially harmful effects of exposures to hazardous substances.
- 10.7 Showers and Change Rooms. Where the decontamination procedure indicates a need for regular showers and change rooms outside of a contaminated area, they shall be provided and meet the requirements of 8 CCR, Ch. 4, Subch. 7, Article 9 of the General Industry Safety Orders. If temperature conditions prevent the effective use of water, then other effective means for cleansing shall be provided and used.

# 11.0 INCIDENT RESPONSE FOLLOW UP & EVALUATION

- 11.1 Incident Response Follow Up & Evaluation. Immediately following any emergency incident, an *Incident Response Follow Up / Evaluation* form will be completed by the Emergency Coordinator.
- 11.2 Department of Toxic Substance Control Incident Report. Any time the Contingency Plan has been activated, the owner/operator must submit a report to the Department of Toxic Substance Control within 15 days after the incident. The report shall include
  - 1. The name, address and telephone number of the owner/operator.
  - 2. The name, address and phone number of the facility.
  - 3. The date, time, and type of incident.
  - 4. The name and quantity of materials involved.
  - 5. The extent of any injuries.
  - 6. An assessment of any actual or potential hazards to human health of the environment.
  - 7. The estimated quantity and disposition of recovered materials that resulted from the incident.

#### 12.0 TRAINING

- 12.1 All employees will receive training as to their response to a hazardous material incident. Training for emergency response employees shall be completed before they are called upon to perform in real emergencies. Such training shall include the elements of the emergency response plan, standard operating procedures the employer has established for the job, the PPE to be worn and procedures for handling emergency incidents.
- 12.2 Employee members of emergency response organizations shall be trained to a level of competence in the recognition of health and safety hazards to protect themselves and other employees. This would include training in the methods used to minimize the risk from safety and health hazards; in the safe use of control equipment; in the selection and use of appropriate personal protective equipment; in the safe operating procedures to be used at the incident scene; in the techniques of coordination with other employees to minimize risks; in the appropriate response to over- exposure from health hazards or injury to themselves and other employees; and in the recognition of subsequent symptoms which may result from over-exposures.
- 12.3 Annual Training. The employer shall certify that each covered employee has attended and successfully completed the training required or shall certify the employee's competency at least yearly. The method used to demonstrate competency for certification of training shall be recorded and maintained by the employer.
- 12.4 The emergency response plan shall be rehearsed regularly as part of the overall training program for site operations.
- 12.5 The site emergency response plan shall be reviewed periodically and, as necessary, be amended to keep it current with new or changing site conditions or information.

# 13.0 AMENDMENT AND TESTING OF THE CONTINGENCY PLAN

### 13.1 Amendment of Contingency Plan

This contingency plan shall be reviewed and immediately amended, if necessary, whenever:

- (a) The facility permit is revised.
- (b) Applicable regulations are revised.
- (c) The plan fails in an emergency.
- (d) This facility changes in its design, constructions, operation, maintenance or other circumstances in a way that materially increases the potential for fires, explosions or releases of hazardous materials, hazardous wastes or hazardous waste constituents, or changes the response necessary in an emergency.
- (e) The list of emergency coordinators change.
- (f) The list of emergency equipment changes.
- (g) Testing of the plan reveals that changes are necessary.

# 13.2 Testing of the Contingency Plan

This contingency plan will be tested at least annually. Simulations will be conducted of the various incidents that are likely to happen at the facility. The purpose is to evaluate procedures, personnel, equipment and effectiveness of the plan. Documentation will be maintained of all tests of the plan.

# **EMERGENCY SITUATIONS & REPORTING**

**Emergency Situations.** Whenever there is an imminent or actual emergency situation (i.e. a fire, explosion, spill, release, or threatened release, of a hazardous material or hazardous waste) the incident will be reported to the Emergency Coordinator and/or the senior management person in the facility immediately.

The Emergency Coordinator will:

- 1. Determine if the fire, explosion, spill, release, or threatened release can be controlled by the employees in the immediate work area and/or maintenance personnel.
- 2. Activate internal facility alarms or communication system, where applicable, to notify all facility personnel.
- 3. Notify appropriate local response agencies if off-site help is needed and/or if evacuation of the local areas is required.

**Reporting.** Any release or threatened release of any hazardous material or waste is reportable, pursuant to the State Community Right-to Know Law, unless there is a reasonable belief that there is no present or potential hazard to human life, the environment or property. If the incident reportable, the Emergency Coordinator and/or the senior management person in the facility will immediately report the release or threatened release to the following emergency response agencies:

1. Local Emergency Response Agency 911 \* \* Be sure to advise them that it is Hazardous Material Incident, so that the correct repose units will be dispatched. 2. Local Administering Agency (CUPA) (\_\_) 3. State Office of Emergency Services 800-852-7550 The immediate reporting must include, as a minimum: Name and telephone number of person making report. a. Name and address of facility. h. Time and type of incident. c. Name and quantity of material(s) involved, to the extent known. d The extent of injuries, if any. e. The possible hazards to human health, or the environment, outside f. the facility.

4. Hazardous Material Response/Disposal Company (\_\_\_\_\_) \_\_\_\_

# EMERGENCY RESPONSE PRE-PLANNING PROCEDURE

Type of Incident:			
Location:			
Hazardous Substance(s)	Volume		
Physical Form: Gaseous/Vapor Gas Under Pressure Volatile Liquid (Vapor Pressure Non-Volatile Liquid Finely Divided Solid Solid	ıre:)		
Principle Hazards:	EL:) )		
Additional Data: Water Soluble: ☐ YES ☐ NO, Specific Gravity: Vapor Density: Odor: ☐ Other:			
Reportable Quantity (RQ):			
Exposure Monitoring Equipment:			
Respiratory Protection:   Not required  SCBA/Airline  Full face Air Purifying (PF50)  Half-Face Air Purifying (PF10)  Cartridge:  Cha	nge Out Frequency:		
Skin/Body Protective Ensembles:   Level A (Encapsulated)   Material:   Tyvek   Saranex (Coated)   Other:	el C NOT REQUIRED		
Gloves:			
Symptoms of Over-Exposure:			
First Aid:			

# INCIDENT RESPONSE FOLIOW UP / EVALUATION

Date:	Time:	Location		
Emergency Coordin	nator:			
Type of Incident:				
Description of Incid	lent:			
	,	MATERIAL(S) INVO	LVED	
Material(s) Quantity			Quantity	
		INJURIES		
Injuries □ NO □ Y	ES – Extent of Injuri			
	<u> </u>			
		HAZARD ASSESSN	1ENT	
Any actual or poter	ntial hazard to human	life or the environment?		
Assessment:				
DISPOSITION OF RECOVERED MATERIALS				
Has all recovered waste, contaminated soil or surface water, or any other materials that resulted from the incident been				
treated, stored or disposed of in accordance with local, sate and federal requirements?   Disposition				
-	Material	Quantity	Disposition	

### **EMERGENCY RESPONSE PROCEDURE**

ELEMENTS OF EMERGENCY RESPONSE

DATE:

INCIDENT:

2. SIZE UP BY EMERGENCY COORDINATOR **DOFF-SITE NOTIFICATION** 3. [] PREPARE PLAN OF ACTION 4. C SITE CONTROL PLAN IMPLEMENTED 5. CJ SELECT & USE CORRECT PPE 6. TRESCUE/EVACUATE AS NECESSARY 7. [7] INITIAL RESPONSE ACTIONS (CONTAINMENT, ETC.) 8. ADVANCED CONTROL ACTIONS 9. CLEANUP/DECONTAMINATE 10. [] FOLLOW-UP REPORTS & INCIDENT RESPONSE CRITIQUE LOCATION: MATERIALS SPILLED/RELEASED: **VOLUME OF MATERIAL:** HAZARDS OF MATERIAL: EMERGENCY RESPONSE PROCEDURE DEVELOPMENT EQUIPMENT REQUIRED SPECIAL HAZARDS ACTION TO BE TAKEN WHO (PPE/OTHER



### GARDEN GROVE FIRE DEPARTMENT ENVIRONMENTAL PROTECTION SECTION

11301 Acacia Parkway
Garden Grove, CA 92840
iness: 714 741 5600 Hag Mate 714 741 6

Business: 714 741-5600 Haz Mat: 714 741-5636

### Hazardous Materials Business Emergency Plan And Inventory Certification Statement

Business Name: D&S Custom Plating Site Address: 11552 Anabel Gorden Grove CA	Telephone:	714	537-5411
Site Address: 11552 Anabel Garden Grove CA	Zip Code:		
The California Health & Safety Code, Division 20, Chapter 6.95, Section 25 the following:			
A business that handles hazardous materials shall review AND certify Emergency Plan (HMBEP) once every three years from the date of a Department. A business may comply with the annual chemical inventory certification statement to the Garden Grove Fire Department. A business mathe annual inventory submission requirements of the Emergency Plant Act (Section 11022, Title 42, United States Code).	cceptance by reporting requ	the Gar irement	den Grove Fire by submitting a
Note: A business may comply with the annual inventory reporting requirements both of the following apply:	ents using this	certifica	tion statement if
<ol> <li>The business has previously filed an inventory reporting form and;</li> <li>The business attests to the following:         <ul> <li>The information contained in the annual inventory form most recent Department is complete, accurate, and up to date.</li> <li>There has been no change in the quantity of any hazardous mate submitted annual inventory form.</li> <li>No hazardous material subject to the inventory requirements is being recently submitted annual inventory form.</li> </ul> </li> </ol>	erial as reporte	d in the	e most recently
THIS IS TO CERTIFY THAT THE HMBEP AND/OR CHEMICAL INV (Please check applicable boxes.)	ENTORY HA	S B EEN	REVIEWED.
No changes are required to the HMBEP submitted to the Garden Grove Fi	ire Department		
All the necessary changes/revisions have been made to the HMBEP. The certification.			attached to this
No changes are required to the chemical inventory that was previously Department.	on file with	the Gard	len Grove Fire
All the necessary changes/revisions have been made to the chemical in attached to this certification.	nventory. The	change	s/revisions are
AS AN AUTHORIZED REPRESENTATIVE, I CERTIFY UNDER PER PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INIT BELIEVE THE INFORMATION IS TRUE, ACCURATE, AND COMPLETE	FORMATION	AW TI SUBM	HAT I HAVE IITTED AND
Print Name Doug Bus II Signature	Way	jS.	usl
Job Title CEO. Date 2	3-5-08		
Fire Department Inspector R. Walden ID#	3703		



Hazardous Material Disclosure
Business Information / Chemical Inventory / Business Emergency Plan

GARDEN GROVE FIRE DEPARTMENT 11301 Acacia parkway Garden Grove, CA 92840 Bus. (714) 741-5600 Fax (714) 741-5640 Hazardous Materials Coordinator (714) 741-5636



A 1.1		t			Date.	<u> </u>	7/08
Address:	11552 Anaba	el Gre	irden G.	ove CA	File No:		
Occupant or D		Custom	Platino				
Owner/Manag	er: Doug f	zush	· /		Phone:	714	53254U
		•					
	ealth and Safety Code, Sect return the BEP packet, Haz ve Fire Department. HazMat			perly complete the Busines ns, and all material safety	ss Emergency l data sheets w	Plan (Bl rithin fift	MP) packet. You are een (15) days to the
An inspection a	at the above location/oc	cupancy reve	ealed the follo	wing violation(s):			
	Health and Safety Code (				ifornia Cada a	f Dagi	La com
☐ Complete Ha	azardous Materials Disclosure	e packet. HSC C	hanter 6.95. Title	19 Div 2 Chaptor 3 CEC 9	noma code c	n negu	ialions (CCR)
☐ Failure to su	bmit a Business Emergency I	Plan. [HSC 255	05(a)(1)]; CFC 80	01.3.2	001.3.2		
Failure to rev	view and/or revise the Busine	ss Emergency F	lan as required [l	HSC 25505(b)&(c)]			
☐ Chemical inv	entory is incomplete and/or re	equires update.	[HSC 25509]				
[HSC 25504	ncy Response Plan is inadeo (b)&(c)]	quate and/or do	es not address th	ne following issues and sha	all be immediat	ely revis	sed and resubmitted:
	ation Procedures						
•	tion Procedures						
	ation Procedures						
•	yee Training						
☐ Business Ow☐ Failure to pro	ner/Operator page is incompl	lete or needs to	be updated. [HS	C 25509]	•		
Site Map is in	ovide name, title, and 24-hour acomplete or insufficient. [HS	number of eme	gency contact(s).	[HSC 25509(a)(7)]			
☐ Failure to rep	ort a release or threatened re	lease. [HSC 25	5071				
Failure to rep	ort a change in business or cl	hemical invento	y within 30 days	of the following event(s): [H	ISC 25510]		
∐ 100% €	or more increase in the quanti	ity of a disclosed	l material	, , ,			
	n of a previously undisclosed in business address	material					
	e in business ownership						•
☐ Change	e of business name						
2 Year Art Art and Art	See comments below):						
Violation(s): Calif	ornia Fire Code 2001, Arti	cles 79 & 80,	Fitle 19 Part 9, 0	Salifornia Code of Regul	ations (CCR)		
Provide for se	condary containment for haza	ardous materials	liquids and solid	s (CFC 8003.1.3.3)			
☐ Provide spill c	ontrol for hazardous materials	s liquids (CFC 8	003.1.3.2)	·	•		
☐ Provide appro☐ Provide placa	ved cabinet if more than 10 g rding and signs (NFPA 704, C	allons of flamma	ible liquids (CFC	7902.5)			
No Violations	Found	v C Viticie 19 8	790 1.9, Afficie 80	98001.7-8)			
Additional Violat	ions and/or Notes:						
\$ 714.	-876 3840	Susia	Bush	Emergency (	[all +		
		7		- The same of the	400 10	-601	7786/
Responsible Par		Bul	gaggiotatic ty	Re-inspection Date:			•
The above are viol	ations of California law an	d require imm	ediate correctio	n. Failure to correct viola	ations is subje	ct to ci	vil penalties.
Fire Dept. Inspec				_ID#: _370			A CONTRACT OF THE PROPERTY OF
Condition Upon F	Re-inspection:				Date:		
F5-4308.doc (05/06							



## 2002



## Hazardous Materials Management Plan HMMP

AND

## Hazardous Materials Disclosure Forms

For:



### D&S CUSTOM PLATING, INC.

11552 Anabel Avenue • Garden Grove, CA 92843 - 3707 (714) 537-5411

Presented to:

### CERTIFIED UNIFIED PROGRAM AGENCY

GARDEN GROVE FIRE DEPARTMENT
Hazardous Materials Division
11301 Acacia Parkway
Garden Grove, CA 92640
(714) 741 - 5636

Prepared by:



1923 North Fine, Suite 101 (559) 251 - 4060 Fresno, California 93727 - 1510 FAX (559) 251 - 5534

### CITY OF GARDEN GROVE 11301 ACACIA PARKWAY GARDEN GROVE, CALIFORNIA 92842 (714) 741-5636

### **UNIFIED PROGRAM CONSOLIDATED FORM**

**FACILITY INFORMATION** 

### **BUSINESS ACTIVITIES**

				Page 1 of _26_						
E PASILIDAIDI	averale									
FACILITY ID # 3 0 3 5 1 EPA ID # (Hazardous Waste Only) CAL 000 196 560										
BUSINESS NAME (Same as FACILITY NAME or DBA- Doing Business As):	BUS	INESS SI	TE AD	DDRESS 3						
D & S CUSTOM PLATING, INC. 11552 ANABEL / GARDEN GROVE, CA 92843 - 3707										
IF ACHIVITIES DECLARATION  NOTE: If you check YES to any part of this list,										
please submit the Business Owner/Operator Identification page (OES Form 2730).										
Does your facility		If yes, pl	ease	complete these pages of the UPCF						
A. HAZARDOUS MATERIALS  Have on site (for any purpose) hazardous materials at or above 55 gallons for liquids, 500 pounds for solids, or 200 cubic feet for compressed gases (include liquids in ASTs and USTs); or the applicable Federal threshold quantity for an extremely hazardous substance specified in 40 CFR Part 355, Appendix A or B; or handle radiological materials in quantities for which an emergency plan is required pursuant to 10 CFT Parts 30, 40 or 70?	⊠ YES	. □ NO	4	HAZARDOUS MATERIALS INVENTORY - CHEMICAL DESCRIPTION (Form 3)						
B. UNDERGROUND STORAGE TANKS (USTs)	1			UST FACILITY (Formerly SWRCB Form A)						
Own or operate underground storage tanks?	☐ YES	⊠ NO	UST TANK (one page per tank) (Formerly Form B)							
2. Intend to upgrade existing or install new USTs?	☐ YES	⊠ NO	6	UST FACILITY UST TANK (one per tank) UST INSTALLATION - CERTIFICATE OF						
3. Need to report closing a UST?	☐ YES	⊠ №	7	COMPLIANCE (one page per tank) (Formerly Form C) UST TANK (closure portion - one page per tank)						
C. ABOVE GROUND PETROLEUM STORAGE TANKS (USTs)										
Own or operate AST's above these thresholds:any tank capacity is greater than 660 gallons, or	⊠ YES	□ №	8	NO FORM REQUIRED TO CUPAS						
the total aggregate capacity for the entire facility (ASTs, drums and portable containers) greater than 1,320 gallons?										
D. HAZARDOUS WASTE										
Generate hazardous waste?	⊠ YES	□NO	9	EPA ID NUMBER - provide at the top of this page						
Recycle more than 100 kg/month of excluded or exempted recyclable materials (per HSC §25143.2)?	YES	⊠ NO	10 ,	RECYCLABLE MATERIALS REPORT (one per recycler)						
Treat hazardous waste on site?	YES	⊠ NO	11	ONSITE HAZARDOUS WASTE TREATMENT - FACILITY (Formerly DTSC Forms 1772)						
<ul> <li>Treatment subject to financial assurance requirement (for Permit by Rule and Conditional Authorization)?</li> <li>Consolidate hazardous waste generated at a remote site?</li> </ul>	☐ YES	⊠ NO	12 13	ONSITE HAZARDOUS WASTE TREATMENT - UNIT (one page per unit) (Formerly DTSC Forms 1772 A,B,C,D and L) CERTIFICATION OF FINANCIAL ASSURANCE (Formerly DTSC Forms 1232) REMOTE WASTE / CONSOLIDATION						
				SITE ANNUAL NOTIFICATION (Formerly DTSC Forms 1196)						
Need to report the closure/removal of a tank that was classified as hazardous waste and cleaned onsite?	☐ YES	⊠ NO	14	HAZARDOUS WASTE CLOSURE CERTIFICATION (Formerly DTSC Forms 1249)						
E. LOCAL REQUIREMENTS										
Cal-ARP: California Accidental Release Prevention Program H&SC Chapter 6.95, Article 2, §25531 et seq	☐ YES	⊠ NO	15	REGULATED SUBSTANCE REPORTING FORM (Orange County CUPA)						
Stationary Source with more than a Threshold Quantity of a Regulated Substance in a Process		•								



### CITY OF GARDEN GROVE, FIRE DEPARTMENT

11301 ACACIA PARKWAY, GARDEN GROVE, CALIFORNIA 92842 (714) 741-5600 (714) 741-5636 HAZARDOUS MATERIALS BUSINESS INFORMATION FORM

FORM I

### **BUSINESS INFORMATION**

(3) Page 2 of 26

	IIAI OKIAIA IIOIA		(b) rage z or <u>zo</u>
FACILITY # 3 0 0 3 5	BEGINNING DATE (1 01 / 01 / 02	)	ENDING DATE (2) 12/31/02
BUSINESS NAME (4) D & S CUSTOM PLATING, IN	TC RUSINES	S DHONE (5)	(714) 537-5411
SITE ADDRESS (6) 11552 ANABEL	C. DOGINE	OTTIONE (3)	[(714) 537-5411
CITY (7) GARDEN GROVE	STATE (8)	CA	ZIP (9) 92843 - 3707
DUN & BRADSTREET (10) 92 - 815 - 1943		ODE (4 DIGIT	
COUNTY ORANGE		ODE (* DIOI1	#/ (1 1) [34/1
OPERATOR NAME (12) DOUGLAS L. BUSH	OPE	RATOR PHO	NE (13) (714) 537-5411
BUSINESS OW			(TT) 3373TII
OWNER NAME (14) DOUGLAS L. BUSH	OWNER	PHONE (15)	(714) 537-5411
OWNER MAILING ADDRESS (16) 11552 ANABEL	I	(12)	(/14) 337-3411
CITY (17) GARDEN GROVE	STATE (18)	'Δ	ZIP (19) <sub>92843 - 3707</sub>
	NTAL CONTAC	T	(17)  92843 - 3707
CONTACT NAME (20) DOUGLAS L. BUSH			1) (714) 537-5411
MAILING ADDRESS (22) 11552 ANABEL	LOGIATAG	TITIONE (2)	17 (714) 537-5411
CITY (23) GARDEN GROVE	STATE (24)	A	ZIP (25) 92843 - 3707
	CY CONTACTS		
NAME (OO)	NAME (31)		Secondary
TITLE (27)  DOUGLAS L. BUSH  C.E.O.	TITLE (32)		AN L. MOON
BUSINESS PHONE (28) (714) 537-5411	BUSINESS PHO	C.F.(	
24-HOUR PHONE (29) (714) 993-5181	24-HOUR PHON	- (24)	) 537-5411
PAGER# (30)	PAGER# (35)	(/14)	993-5181
(36) ADDITIONAL LOCALLY (		FORMATIO	N
A	York Salar		
		NG	
B. Hours of Business Operation MON - FRI, 6 AM - 8 PM  C. Total Number of Employees 15		<u>.</u>	
D. Property Owner Name DOUGLAS L. BUSH	Address	524 NENNO	AVENUE / PLACENTIA
E. Schools, hospitals within 1,000 ft. of business property	y 🗍 N 🔯		TIVE TO THE TENTON OF THE TENT
Certification: Resert on my inquiry of those individuals responsible to	or obtaining the inform		
Certification: Based on my inquiry of those individuals responsible f personally examined and am familiar with the information submitted	and believe the infor	nation, i certify to nation is true, a	ccurate, and complete.
SIGNATURE OF OWNER/OPERATOR OR (37) DESIGNATED REPRESENTATIVE  DATE (38)	SIGNATUR	E OF DOCUMENT P	PREPARER (41)
1 Jone April Bur 101/14/03	$\mathcal{L}(\mathcal{A})$	) AND ROME	
NAME OF SIGNER (print) (39)	NAME OF D	OCUMENT PREPA	RER (print) (42)
OOUGLAS L. BUSH	<b>i</b> .		D. / PACIFIC MGMT SVCS.
FITLE OF SIGNER (print) (40)	i	OCUMENT PREPA	
E.E.O. / OWNER	ENVIRON	IMENTAL CO	DMPLIANCE CONSULTANT

Page 6

HAZ-BUS. DOC

### CALIFORNIA CHEMICAL INVENTORY FORM

GROEN GROZI		DESCRIPTION PAGE		FORM 3
(31: (72) 8)		(1) ☐ ADD ☐ DELETE ☑ REVISE	(2) PAGE <u>3</u>	OF26
THE DEPARTMENT	CHE (Addi	D & S CUSTOM PLATING  EMICAL LOCATION (4)  ess, Area, Building, etc.)  # (if more than one)  D & S CUSTOM PLATING  1) OUTSIDE, ADJACENT SO. FENCE;  2) INSIDE, IN PLATING AREA  1 of 1 (FR	<u> </u>	TIAL LOCATION  ☐YES ⊠NO  D-5; D-6
CHEMICAL NAME	(8)	SULFURIC ACID MIXTURE	TRADE SECRET (11)	JYES ⊠NO
COMMON NAME	(9)			JYES ⊠NO
CAS#	(10)	ACID ETCH 333	* IF EHS BOX IS 'Y	
FIRE CODE HAZARD CLASSES	(13)	Mixture (36) FACILITY ID# 3 C	ALL AMOUNTS MUST	BE LBS
TYPE PHYSICAL STATE	(14) (17)	RADIOACTIVE  □PURE ☑MIXTURE □WASTE  □SOLID ☑LIQUID □GAS  LARGEST CONT	(15) ☐YES 図NO FAINER (21) 90	CURIES
FED HAZARD CATEGORIES	(18)			C HEALTH
STATE WASTE CODE	(19)	UNITS (22) ☐ GAL ☐ CU FT ☐ LBS ☐ TONS	MAX DAILY AMT (23)	90
DAYS ON SITE	(20)	* If EHS, amounts must be in lbs.	AVG DAILY AMT (24)	90
STORAGE CONTAINER	(26)	☑TANK INSIDE BUILDING ☐SILO ☐GL☐STEEL DRUM ☐FIBER DRUM ☐PL	ANNUAL WASTE AMT (25)  X(S)	E BIN
PRESSURE STORAGE	(27)	□AMBIENT ■ABOVE AMBIENT □ BELOW AMBIEN	Т	
STORAGE TEMPERATURE	(28)	□AMBIENT ☑ABOVE AMBIENT □BELOW AMBIENT	□CRYOGENIC	
(29) % WT		(30) HAZARDOUS COMPONETS	(31) EHS (32)	CAS#
(1) 9		Phosphoric Acid	□YES ⊠NO 7664-38	3-2
(2) 2		Sulfuric Acid	☑YES □NO 7664-93	-9
(3)			☐YES ☐NO	
(4)			□YES □NO	
(5)	0.000.00	at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, atta	DYES DNO	a society deformation
(33) NFPA CLASSIFICATIO		NF.	FPA 704 HAZARD DIAMON (E (RED)	
UN/DOT# 1760 Refer to sh	COF	papers or MSDS HEALTH (BLUE)	3 2 RE (Y)	ACTIVE ELLOW)
		H,	PECIAL (WHITE) AZARD X (WHITE)	,

(35) If EPCRA, Please Sign Here

(34) EPCRA □YES ☒NO

## OEN GO

### CALIFORNIA CHEMICAL INVENTORY FORM

FORM 3

GINEST. 1928 AM		DESCRIPTION PAGE	0111110
(3): (5) (1) (1)		(1) ADD DELETE REVISE (2) PAGE 4 OF	26
THE DEPARTMENT	CHE (Addi	SINESS NAME  (3)  D & S CUSTOM PLATING, INC.  1) OUTSIDE, ADJACENT SO. FENCE; 2) INSIDE, IN PLATING AREA  (5) CONFIDENTIAL EPCRA  (6)  1 of 1  GRID# (FROM MAP)  (7) C-9; D-4; D	□YES 図NO
CHEMICAL NAME	(8)	SODIUM HYDROGEN SULFATE MIXTURE  TRADE SECRET (11)  IF EPPCRA SEE INSTRUCTIONS	'ES ⊠NO
COMMON NAME	(9)	AN FHS CHEMICAL (12)	'ES ⊠NO
CAS#	(10)	iii Elio Boxio TEG	
FIRE CODE HAZARD CLASSES	(13)	Mixture         ALL AMOUNTS MUST BE           (36)         FACILITY ID# 3 0 0 3 5   1	LBS
		RADIOACTIVE (15) □YES ⊠NO	CURIES
TYPE	(14)	□PURE ☑MIXTURE □WASTE	
PHYSICAL STATE	(17)	□SOLID ☑LIQUID □GAS LARGEST CONTAINER (21) 90	
FED HAZARD CATEGORIES	(18)	☐FIRE ☐REACTIVE ☐PRESSURE RELEASE ☐ACUTE HEALTH ☐CHRONIC	HEALTH
STATE WASTE CODE	(19)	UNITS (22) GAL CU FT MAX DAILY AMT (23) 90	0
DAYS ON SITE	(20)	* If EHS, amounts must be in lbs. AVG DAILY AMT (24)	)
		ANNUAL WASTE AMT (25)	
STORAGE CONTAINER	(26)	□ABOVE GROUND TANK □CAN □BOX(S) □TANK \ □UNDER GOUND TANK □CARBOY □CYLINDER □RAIL C  ☑TANK INSIDE BUILDING □SILO □GLASS CONTAINER □TOTE I □STEEL DRUM □FIBER DRUM □PLASTIC CONTAINER □Other  ☑PLASTIC/NONMETALLIC DRUM □BAG(S) □IN MACHINERY OR EQUIP.	AR
PRESSURE STORAGE	(27)	MAMBIENT □ABOVE AMBIENT □BELOW AMBIENT	
STORAGE TEMPERATURE	(28)	MAMBIENT □ABOVE AMBIENT □BELOW AMBIENT □CRYOGENIC	
(29) % WT	-	(30) HAZARDOUS COMPONETS (31) EHS (32) C	AS#
(1) 20		Sodium Hydrogen Sulfate □YES ⊠NO 7681-38-1	
(2) 2		Sodium Bifluoride □YES ☑NO 113-83-1	
(3)	**	□YES □NO	
(4)	-	□YES □NO	
(5)		□YES □NO	
If more hazardous components are	presen	nt at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the re	quired information.
(33) NFPA CLASSIFICATIO	NC.	NFPA 704 HAZARD DIAMOND FIRE (RED)	
ļ			CTIVE LOW)
DOT HAZARD CLASS		RROSIVE Refer to shipping papers or MSDS SPECIAL HAZARD OX / W	
(34) EPCRA ☐YES ☒NO			

(35) If EPCRA, Please Sign Here

### CALIFORNIA CHEMICAL INVENTORY FORM DESCRIPTION PAGE

FORM 3

G EST. 1928 MM		DESCIVII IIONI AC	E				
		(1) ☐ ADD ☐ DELETE ☐ REVISE		(2) PAGE 5 OF 26			
THE DEPARTMENT	CHE (Addr	MICAL LOCATION (4)  ss, Area, Building, etc.)  # (if more than one)  (3)  D & S CUSTOM PL  1) OUTSIDE, ADJACENT SO.  2) INSIDE, IN PLATING ARE  1 of 1	FENCE; A	, INC.  (5) CONFIDENTIAL LOCATION EPCRA □YES ⊠NO  GRID# OM MAP)  (7)  C-9; D-4; D-5; D-6			
CHEMICAL NAME	(8)	SODIUM HYDROXIDE MIXTURE		TRADE SECRET (11) □YES ☑NO			
COMMON NAME	(9)		AN EHS CHEMICAL (12) ☐YES ☒NO				
CAS#	(10)	ALUM CHROME STRIP		* IF EHS BOX IS 'YES'			
FIRE CODE		Mixture		ALL AMOUNTS MUST BE LBS			
	(13)	(36) FACILITY I	30	035			
TVDE	(4.4)	RADIOAC	CTIVE	(15) YES NO CURIES			
	(14)	□PURE ☑MIXTURE □WASTE LARGES	T CONT.	AINER (21) 250			
PHYSICAL STATE FED HAZARD	(17)	□SOLID ⊠LIQUID □GAS					
CATEGORIES	(18)	☐FIRE ☐REACTIVE ☐PRESSURE RELEASE	. ⊠A(	CUTE HEALTH CHRONIC HEALTH			
STATE WASTE CODE	(19)	UNITS (22) GAL CU FT LBS TONS		MAX DAILY AMT (23) 250			
DAYS ON SITE	(20)	* If EHS, amounts must be in lbs.		AVG DAILY AMT (24)			
	( '/			ANNUAL WASTE AMT (25)			
	(26)	□ABOVE GROUND TANK □CAN □UNDER GOUND TANK □CARBOY □TANK INSIDE BUILDING □SILO □STEEL DRUM □FIBER DRUM □PLASTIC/NONMETALLIC DRUM □BAG(S)	□GLA □PLA				
PRESSURE STORAGE	(27)	⊠AMBIENT □ABOVE AMBIENT □BELOW A	MBIEN	Г			
STORAGE TEMPERATURE	(28)	MAMBIENT □ABOVE AMBIENT □BELOW AM	BIENT	□CRYOGENIC			
(29) % WT		(30) HAZARDOUS COMPONETS		(31) EHS (32) CAS #			
(1) 10		Sodium Hydroxide		□YES ⊠NO 1310-73-2			
(2)				□YES □NO			
(3)			-	□YES □NO			
(4)				□YES □NO			
(5)				YES DNO			
	oresent	at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcino	genic, attac	h additional sheets of paper capturing the required information.			
(33) NFPA CLASSIFICATIO	N			FPA 704 HAZARD DIAMOND E (RED)  ■			
UN/DOT# 1759  Refer to shi  DOT HAZARD CLASS		papers or MSDS  ROSIVE	HEALTH (BLUE)	0 A DEACTIVE			
2011//2/10 00/09		efer to shipping papers or MSDS	SF H <i>A</i>	PECIAL (WHITE) OX / W			

(35) If EPCRA, Please Sign Here

(34) EPCRA ☐YES ☒NO

# OEN GAS

## CALIFORNIA CHEMICAL INVENTORY FORM

FORM 3

GP EST 1920 Tr		DESCRIPT	ION	PAGE			
		(1) ☐ ADD ☐ DELETE ☒ REVIS	E			(2) PAG	E 6 OF 26
THE DEPARTMENT	CHE (Addi		ADJACE		·		CONFIDENTIAL LOCATION EPCRA □YES ⊠NO ; D-4; D-5; D-6
CHEMICAL NAME	(8)	SODIUM HYDROXIDE			TRADE SE	CRET	(11) □YES ⊠NO
COMMON NAME	(9)				AN EHS CH		
CAS#	(10)	CAUSTIC SODA 50% MIXTUR	Æ				BBOX IS 'YES'
FIRE CODE		Mixture			ALI		ITS MUST BE LBS
HAZARD CLASSES	(13)		(36) FA	ACILITY ID#30	03	5	
				ADIOACTIVE	(15)	□YES	⊠NO CURIES
	(14)	□PURE ☑MIXTURE □WASTE	1.	ARGEST CONT	AINFR (21)	55	
PHYSICAL STATE FED HAZARD	(17)	□SOLID ☑LIQUID □GAS				[33	
CATEGORIES	(18)	☐FIRE ☐REACTIVE ☐PRESS		·	CUTE HEAL	TH 🗵	CHRONIC HEALTH
STATE WASTE CODE	(19)	UNITS (22) GAL	□cu □to		MAX	DAILY	AMT (23) 100
DAYS ON SITE	(20)	* If EHS, amounts must	be in lb	s.	AVG	DAILY	AMT (24) 50
					ANNUAL V	VASTE A	AMT (25)
STORAGE CONTAINER	(26)	☐UNDER GOUND TANK ☐ MITANK INSIDE BUILDING ☐ DISTEEL DRUM	]CAN ]CARBO ]SILO ]FIBER ]BAG(S	□GL/ DRUM □PL/	X(S) LINDER ASS CONTA ASTIC CONT MACHINERY	AINER	☐TANK WAGON ☐RAIL CAR ☐TOTE BIN ☐Other UIP.
PRESSURE STORAGE	(27)	⊠AMBIENT □ABOVE AMBIENT	······································	LOW AMBIEN	Т		
STORAGE TEMPERATURE	(28)	☑AMBIENT □ABOVE AMBIENT	□BEL	OW AMBIENT	□ CRYO	SENIC	
(29) % WT	,	(30) HAZARDOUS COMPO	NETS		(31) EHS	- 1111	(32) CAS #
(1) 50		Sodium Hydroxide			□YES	⊠NO	1310-73-2
(2) 50		Water .			□YES	⊠NO	7732-18-2
(3)					□YES	□ио	
(4)					□YES	□ио	
(5)					□YES	□ио	
If more hazardous components are p	oresent	t at greater than 1% by weight if non-carcinogenic, or 0.15	% by weigh	t if carcinogenic, attac	h additional shee	ts of paper	capturing the required information.
(33) NFPA CLASSIFICATIO	N	<del></del>	, [		IFPA 704 HA	ZARD [	DIAMOND
UN/DOT# 1824 Refer to shi  DOT HAZARD CLASS	COR			HEALTH (BLUE)	3	0 1	REACTIVE (YELLOW)
	Re	efer to shipping papers or MSDS	]	SF HA	PECIAL AZARD	$\checkmark$	(WHITE) OX / W

(35) If EPCRA, Please Sign Here

(34) EPCRA □YES ☒NO

# ADEN GA

## CALIFORNIA CHEMICAL INVENTORY FORM

FORM 3

GEST 1928 MM	DESCRIPTION PAGE
	(1) ☐ ADD ☐ DELETE ☒ REVISE (2) PAGE 7 OF 26
THE DEPARTMENT	BUSINESS NAME  (3)  D & S CUSTOM PLATING, INC.  CHEMICAL LOCATION (4) (Address, Area, Building, etc.) MAP # (if more than one)  (5) CONFIDENTIAL LOCATION EPCRA □YES ☒NO  (FROM MAP)  (7)  D-4; D-5; D-6
FIRE CODE	(8) MURIATIC ACID MIXTURE  (9) CHROME STRIP  Mixture  TRADE SECRET (11) □YES ☒NO  *IF EPCRA SEE INSTRUCTIONS  AN EHS CHEMICAL (12) □YES ☒NO  *IF EHS BOX IS 'YES'  ALL AMOUNTS MUST BE LBS  (13) (36) 3 0 0 3 5
TYPE	(13) (36) FACILITY ID# 3 0 0 3 5   SACILITY ID# 3 0 0 0 0 3 5   SACILITY ID# 3 0 0 0 0 3 5   SACILITY ID# 3 0 0 0 0 3 5   SACILITY ID# 3 0 0 0 0 3 5   SACILITY ID# 3 0 0 0 0 3 5   SACILITY ID# 3 0 0 0 0 3 5   SACILITY ID# 3 0 0 0 0 3 5   SACILITY ID# 3 0 0 0 0 3 5   SACILITY ID# 3 0 0 0 0 3 5   SACILITY ID# 3 0 0 0 0 3 5   SACILITY ID# 3 0 0 0 0 3 5   SACILITY ID# 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
CATEGORIES STATE WASTE CODE	(18) ☐ FIRE ☐ REACTIVE ☐ PRESSURE RELEASE ☑ ACUTE HEALTH ☐ CHRONIC HEALTH  (19) ☐ UNITS (22) ☑ GAL ☐ CU FT ☐ MAX DAILY AMT (23) 80  (20) 365 * If EHS, amounts must be in lbs. AVG DAILY AMT (24) 80
	ANNUAL WASTE AMT (25)  ABOVE GROUND TANK  CAN  BOX(S)  TANK WAGON  CARBOY  CYLINDER  RAIL CAR  TANK INSIDE BUILDING  STEEL DRUM  PLASTIC CONTAINER  PLASTIC CONTAINER  DIN MACHINERY OR EQUIP.
STORAGE TEMPERATURE	MAMBIENT   DABOVE AMBIENT   DBELOW AMBIENT   CRYOGENIC   CRYOGEN
(29) % WT (1) 20 (2) (3)	(30) HAZARDOUS COMPONETS (31) EHS (32) CAS #  Hydrogen Chloride □YES ☑NO 7647-01-0  □YES □NO □YES □NO
(4)	□YES □NO □YES □NO □YES □NO resent at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.
UN/DOT# 1789  Refer to ship  DOT HAZARD CLASS (	poping papers or MSDS  CORROSIVE  Refer to shipping papers or MSDS  REACTIVE (YELLOW)  SPECIAL  OWNER  (YELLOW)
(34) EPCRA ☐YES ☒NO	HAZARD OX / W

# DEN GRA

### CALIFORNIA CHEMICAL INVENTORY FORM

FORM 3

GP EST. 1928 M			DESC	RIPTIO	N PAG	E				1 0111	
	(1) [	Jadd □de	LETE D	REVISE		Administration according to the Administration of the Administrati		(2) P	AGE8	OF 26	
THE DEPARTMENT		L LOCATION ea, Building, etc.)	(4) IN	& S CUS			G, INC. GRID# ROM MAP)		5) CONFIDE EPCRA D-4; D-5	ENTIAL LOCA □YES I ; D-6	
CHEMICAL NAME	(8)	OLOG ACTO	COLVE	DY 60.3 T			TRADE S	ECRE	T (11)	□YES ⊠	INO
COMMON NAME	(9) CHR	OMIC ACID	SOLUT	TION	······································		TRADE S * IF EPCRA SE AN EHS CH		Г	□YES ⊠	
CAS#	(10)						AN ENO CI		HS BOX IS		INO
FIRE CODE HAZARD CLASSES	(13) Mixt	ure		(3)	6) FACILITY I	<sub>D#</sub> 3 C	TIT	L AMO	UNTS MUS		
TYPE	(14)			1	RADIOAC	CTIVE	(15)	. □YE	S ⊠NC	) CURIES	; ]
PHYSICAL STATE	,, LIPC	DLID ⊠LIQUID	RE DWA		LARGES	T CONT	AINER (21)	450			
FED HAZARD CATEGORIES	(18) DFI			]PRESSURI	RELEASE	⊠A	CUTE HEA	I TH	ПСНВО	NIC HEALT	н
STATE WASTE	(19)		ITS (22)	⊠GAL [	]CU FT   ]TONS				Y AMT (23		
DAYS ON SITE	(20) 365	* If I	EHS, amo	unts must be	in lbs.		AVO	B DAIL	Y AMT (24	4) 450	
STORAGE CONTAINER PRESSURE	(26) □UN ☑TA □ST	OVE GROUND NDER GOUND T NK INSIDE BUI EEL DRUM ASTIC/NONME	ANK LDING	□sil □fie	RBOY .O :ER DRUM	□GL/ □PL/	ANNUAL I X(S) LINDER ASS CONTA ASTIC CONT MACHINER	INER	□TA □RA □TC R □Otl	NK WAGON NL CAR DTE BIN	
STORAGE	(27) 🗆 🗚	⁄IBIENT ⊠AE	BOVE AM	BIENT [	BELOW A	MBIEN	т				
STORAGE TEMPERATURE	28) □AN	/BIENT ⊠AE	BOVE AMI	BIENT DE	BELOW AM	BIENT	□CRYO	GENIC			
(29) % WT	<u></u>	(30) HAZ	ZARDOUS	COMPONET	S		(31) EHS	3	(3	2) CAS #	
(1) 20	Chron	nium					□YES	⊠NO	1333-8	32-0	
(2)			1.4.1.177				□YES	□ио			
(3)							□YES	□ио			
(4)	-		77444			`	□YES	□ио			<u> </u>
(5)							J	□NO			
If more hazardous components are		er than 1% by weight if	non-carcinog	enic, or 0.1% by v	veight if carcinog	genic, attac	h additional she	ets of pap	er capturing	the required info	rmation.
UN/DOT# 3087 Refer to sh	oping papers		4-4				FPA 704 HA E (RED)	0 0	\ <b>4</b> F	D REACTIVE YELLOW)	
		hipping papers or	MSDS			SF H A	PECIAL AZARD	$\langle \ \rangle$	(WHITE	E)	
(34) EPCRA ☐YES ☒NO	•					11/		<u> </u>	UX / \	/\tag{\tag{\tag{\tag{\tag{\tag{\tag{	]

### CALIFORNIA CHEMICAL INVENTORY FORM **DESCRIPTION PAGE**

FORM 3

BUSINESS NAME
SODIUM HYDROXIDE MIXTURE
COMMON NAME  (9)  CAS #  (10)  FIRE CODE  HAZARD CLASSES  (13)  (13)  (14)  PURE MIXTURE DWASTE  PHYSICAL STATE  CATEGORIES  (17)  SOLID MIQUID GAS  (18)  FIRE DREACTIVE PRESSURE RELEASE MACUTE HEALTH CHRONIC HEALTH  STATE WASTE  CODE  (19)  DAYS ON SITE  (20)  STORAGE  CONTAINER  (26)  AN EHS CHEMICAL (12)  MIXTURE  MIXTURE  WASTE  LARGEST CONTAINER (21)  FIRE REACTIVE PRESSURE RELEASE MACUTE HEALTH CHRONIC HEALTH  STORAGE  CONTAINER  (26)  ANNUAL WASTE AMT (25)  STORAGE  CONTAINER  (27)  AMBIENT MABOVE AMBIENT GELOW AMBIENT GELOW AMBIENT GRYOGENIC  (28) % WT  (30) HAZARDOUS COMPONETS  (31) EHS  AN EHS CHEMICAL (12)  TYES MNO  *IF EHS BOX IS YES'  ALL AMOUNTS MUST BE LBS  ALL AMOUNTS MUST BE LBS  *IF EHS BOX IS YES'  ALL AMOUNTS MUST BE LBS  *ALL AMOUNTS MUST BE LBS  *IF EHS BOX IS YES'  ALL AMOUNTS MUST BE LBS  *IT ELS MNO  CURIES  LARGEST CONTAINER (21)  DYES MNO  CURIES  LARGEST CONTAINER (21)  DYES MNO  CURIES  LARGEST CONTAINER (21)  DYES MNO  CURIES  AND DIVISION CURIES  MAX DAILY AMT (23)  250  ANNUAL WASTE AMT (25)  STORAGE  CONTAINER  (26)  ANNUAL WASTE AMT (25)  STORAGE  CONTAINER  (27)  AMBIENT MABOVE AMBIENT GENOW AMBIENT GRYOGENIC  (28) % WT  (30) HAZARDOUS COMPONETS  (31) EHS  (32) CAS #
Type
FIRE CODE HAZARD CLASSES  (13)  (36) FACILITY ID 3 0 0 3 5  TYPE  (14) PHYSICAL STATE PHYSICAL STATE (17) SOLID BLIQUID GAS  (18) FIRE REACTIVE PRESSURE RELEASE ACUTE HEALTH CHRONIC HEALTH  STATE WASTE CODE (19) DAYS ON SITE  (20) 365 * If EHS, amounts must be in lbs.  AVG DAILY AMT (23) 250  ANNUAL WASTE AMT (25)  STORAGE CONTAINER CONTAINER (26) BOX(S) JUNDER GOUND TANK CARBOY STORAGE CONTAINER CONTAINER PRESSURE STORAGE STORAGE STORAGE (27) BABOVE GROUND TANK STORAGE TEMPERATURE (28) BABOVE AMBIENT BELOW AMBIENT  (29) % WT  (30) HAZARDOUS COMPONETS  (31) EHS  (32) CAS #
TYPE  PHYSICAL STATE  (17)
FED HAZARD CATEGORIES  (18)
STATE WASTE CODE (19) UNITS (22) GAL CU FT MAX DAILY AMT (23) 250  DAYS ON SITE (20) 365 * If EHS, amounts must be in lbs. AVG DAILY AMT (24) 250  STORAGE CONTAINER (26) GOUND TANK CARBOY CARBOY CYLINDER RAIL CAR TANK INSIDE BUILDING SILO GLASS CONTAINER TOTHER TOTHER STORAGE (27) GAMBIENT GABOVE AMBIENT BELOW AMBIENT CONTAINER OTHER STORAGE TEMPERATURE (28) GAMBIENT GABOVE AMBIENT BELOW AMBIENT CRYOGENIC (29) % WT (30) HAZARDOUS COMPONETS (31) EHS (32) CAS #
AVG DAILY AMT (24) 250  ANNUAL WASTE AMT (25)  STORAGE CONTAINER  (26)  ABOVE GROUND TANK
STORAGE CONTAINER  (26) ABOVE GROUND TANK CAN BOX(S) TANK WAGON CONTAINER  (26) ABOVE GROUND TANK CARBOY CARBOY CYLINDER CARBIL CAR ATANK INSIDE BUILDING SILO GLASS CONTAINER TOTE BIN CONTAINER CONTAINER  CARBOY CARBOY CARBIL CAR CONTAINER CONTAI
PRESSURE STORAGE (27) AMBIENT MABOVE AMBIENT BELOW AMBIENT CRYOGENIC (28) AMBIENT MABOVE AMBIENT BELOW AMBIENT CRYOGENIC (29) WT (30) HAZARDOUS COMPONETS (31) EHS (32) CAS #
TEMPERATURE (28) □AMBIENT ☑ABOVE AMBIENT □BELOW AMBIENT □CRYOGENIC  (29) % WT (30) HAZARDOUS COMPONETS (31) EHS (32) CAS #
(4) 4 Sodium Undravida
(1) 4 Sodium Hydroxide
(2)
(3) □YES □NO
(4)
(5)
## more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.  NFPA 704 HAZARD DIAMOND  FIRE (RED)  → THE PROPERTY 1750.
UN/DOT# 1759  Refer to shipping papers or MSDS  DOT HAZARD CLASS CORROSIVE  REACTIVE (YELLOW)
Refer to shipping papers or MSDS  SPECIAL (WHITE) OX / W  34) EPCRA □YES ☒NO

(35) If EPCRA, Please Sign Here

PAGE 14

6/2001 - GRAPHICS G:\FIRE\FORMS-CHEMICAL INVTRY FM

## DEN GO

## CALIFORNIA CHEMICAL INVENTORY FORM

FORM 3

GARLESI.1920 AFT	DESCRIPTION PAGE	I Oldin O
CS (EST. 1928) PM	(1) ☐ ADD ☐ DELETE ☐ REVISE	(2) PAGE 10 OF 26
THE DEPARTMENT		, INC.  (5) CONFIDENTIAL LOCATION EPCRA □YES ⊠NO  GRID# C-9; D-4; D-5; D-6
CHEMICAL NAME	(8) SODIUM HYDROXIDE MIXTURE	TRADE SECRET (11)  YES NO
COMMON NAME	(9)	AN EHS CHEMICAL (12) ☐YES ☑NO
CAS#	(10) CLEANER CH98	* IF EHS BOX IS 'YES'
FIRE CODE HAZARD CLASSES	(13) Mixture (36) FACILITY ID# 3 0	ALL AMOUNTS MUST BE LBS
TYPE	(14) PURE MIXTURE WASTE LARGEST CONTA	(15) YES NO CURIES
PHYSICAL STATE FED HAZARD	(17) SOLID BLIQUID GAS	(1) [230
CATEGORIES	(10)	CUTE HEALTH CHRONIC HEALTH
STATE WASTE CODE	UNITS (22) ☐GAL ☐CU FT ☐LBS ☐TONS	MAX DAILY AMT (23)
DAYS ON SITE	(20) 365 * If EHS, amounts must be in lbs.	AVG DAILY AMT (24)
	(CO) STANK INSIDE BUILDING SILO SILO STEEL DRUM SIDER DRUM SILO SILO SILO SILO SILO SILO SILO SILO	ANNUAL WASTE AMT (25)  K(S)
PRESSURE STORAGE	(27) □AMBIENT ☑ABOVE AMBIENT □BELOW AMBIENT	
STORAGE TEMPERATURE	(28) AMBIENT MABOVE AMBIENT BELOW AMBIENT	□CRYOGENIC
29) % WT	(30) HAZARDOUS COMPONETS	(31) EHS (32) CAS#
(1) 5	Sodium Hydroxide	□YES ⊠NO 1310-73-2
(2)		□YES □NO
(3)		□YES □NO
(4)		□YES □NO
(5)	All business and a second of the second of t	□YES □NO
ff more hazardous components are 33) NFPA CLASSIFICATIO	present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attac N	FPA 704 HAZARD DIAMOND
UN/DOT# 1823 Refer to sh	ipping papers or MSDS HEALTH	REACTIVE (YELLOW)
		PECIAL (WHITE) AZARD OX / W

(35) If EPCRA, Please Sign Here

(34) EPCRA ☐YES ☒NO

PAGE 14

MAKE AS MANY COPIES OF CHEMICAL INVENTORY FORM AS NEEDED 6/2001 - GRAPHICS G:\FIRE\FORMS-CHEMICAL INVTRY FM

### CALIFORNIA CHEMICAL INVENTORY FORM DESCRIPTION PAGE

FORM 3

EST. 1920	(1) ☐ ADD ☐ DELETE ☐ REVISE (2) PAGE 11 OF 26
THE DEPARTMENT	BUSINESS NAME  (3) D & S CUSTOM PLATING, INC.  CHEMICAL LOCATION (4) IN PLATING AREA  (Address, Area, Building, etc.) MAP # (if more than one)  (4) IN PLATING AREA  GRID# (FROM MAP) (7) D-4; D-5; D-6
FIRE CODE	(8) COPPER PLATING SOLUTION  (9) COPPER PLATE  (10) Mixture  (36) FACILITY ID: 3 0 0 3 5
PHYSICAL STATE FED HAZARD	RADIOACTIVE (15) YES NO CURIES  PURE MIXTURE WASTE  LARGEST CONTAINER (21) 1,300  18) FIRE PREACTIVE PRESSURE RELEASE ACUTE HEALTH CHRONIC HEALTH
STATE WASTE CODE	UNITS (22) MGAL CU FT MAX DAILY AMT (23) 1,750  * If EHS, amounts must be in lbs.  ANNUAL WASTE AMT (25)
	□ ABOVE GROUND TANK □ CAN □ BOX(S) □ TANK WAGON □ UNDER GOUND TANK □ CARBOY □ CYLINDER □ RAIL CAR □ TANK INSIDE BUILDING □ SILO □ GLASS CONTAINER □ TOTE BIN □ STEEL DRUM □ FIBER DRUM □ PLASTIC CONTAINER □ Other □ PLASTIC/NONMETALLIC DRUM □ BAG(S) □ IN MACHINERY OR EQUIP.
STORAGE	27) MAMBIENT DABOVE AMBIENT DBELOW AMBIENT  28) MAMBIENT DABOVE AMBIENT DBELOW AMBIENT DCRYOGENIC
(29) % WT	(30) HAZARDOUS COMPONETS (31) EHS (32) CAS #    Copper Sulfate
(2) 4	Sulfuric Acid
(4) (5)  If more bazardous components are s	YES NO   YES NO   YES NO   The sent at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information
(33) NFPA CLASSIFICATIO  UN/DOT# 3082	NFPA 704 HAZARD DIAMOND FIRE (RED)  pping papers or MSDS  HEALTH  3 2 REACTIVE (YELLOW)

(35) If EPCRA, Please Sign Here

### CALIFORNIA CHEMICAL INVENTORY FORM **DESCRIPTION PAGE**

FORM 3

(3k(72)8))		(1) ☐ ADD ☐ DELETE ☑ REVISE		(2) PAGE	12 OF 26	witani.
THE DEPARTMENT	CHE (Addi		M PLATING, INC.  ERED AREA, ADJACENT BLE  REA  GRID#  (FROM MAP)	EF	DINFIDENTIAL LOCATION PCRA □YES ⊠NO □YES D-4; D-5; D-6	
CHEMICAL NAME	(8)	HYDROCHLORIC ACID	TRADE	SECRET (1	11) □YES ⊠NO	
COMMON NAME	(9)	MURIATIC ACID MIXTURE		CHEMICAL (		
CAS#	(10)	MUNIATIC ACID MIXTORE		* IF EHS E	BOX IS 'YES'	
FIRE CODE HAZARD CLASSES	(13)	Mixture (36)		ALL AMOUNTS	S MUST BE LBS	
ГҮРЕ	(14)		ADIOACTIVE (	15) TYES	⊠NO CURIES	
PHYSICAL STATE	(17)	□PURE MIXTURE □WASTE □SOLID MIQUID □GAS	RGEST CONTAINER (2	21) 13		
FED HAZARD CATEGORIES	(18)	□FIRE □REACTIVE □PRESSURE RE	EASE ACUTE HE	ALTH DC	CHRONIC HEALTH	
STATE WASTE	(19)	UNITS (22) MGAL □CU □LBS □TO	[ 18)	AX DAILY AN	/IT (23) <sub>20</sub>	
DAYS ON SITE	(20)	* If EHS, amounts must be in lbs	A	VG DAILY AN	ЛТ (24) <sub>12</sub>	
			ANNUA	L WASTE AN	AT (25)	
STORAGE CONTAINER	(26)	□ABOVE GROUND TANK □CAN □UNDER GOUND TANK □CARBO □TANK INSIDE BUILDING □SILO □STEEL DRUM □FIBER ☑PLASTIC/NONMETALLIC DRUM □BAG(S)	□GLASS CON	NTAINER	□TANK WAGON □RAIL CAR □TOTE BIN □Other	
PRESSURE STORAGE	(27)		OW AMBIENT	***************************************	P-4	
STORAGE FEMPERATURE	(28)	MAMBIENT □ABOVE AMBIENT □BELO	OW AMBIENT CRY	OGENIC		
(29) % WT		(30) HAZARDOUS COMPONETS	(31) E	HS	(32) CAS #	
(1) 32		Hydrogen Chloride	□YES	s ⊠no 7	647-01-0	
(2) 68		Water	□YES	s ⊠no 7	732-18-2	
(3)			□YE	S □NO		
(4)		·	□YE	S □NO		
(5)			□YES	S □NO		
ff more hazardous components are	presem	at greater than 1% by weight if non-carcinogenic, or 0.1% by weight	if carcinogenic, attach additional	sheets of paper ca	pturing the required information.	
33) NFPA CLASSIFICATIO	N		NFPA 704	HAZARD DIA	AMOND	
UN/DOT# 1789			FIRE (RED)■	0		
Refer to sh		papers or MSDS	HEALTH (BLUE)	3 0	REACTIVE (YELLOW)	
		efer to shipping papers or MSDS	SPECIAL HAZARD ®		(WHITE) OX / W	
34) EPCRA □YES ⊠NO		L	TAKE AS MANY C			
X	004	201	INVENTORY F			

(35) If EPCRA, Please Sign Here

## CALIFORNIA CHEMICAL INVENTORY FORM

FORM 3

G EST. 1928		DESCRIPT	ION	PAGE		
		(1) ☐ ADD ☐ DELETE ☒ REVI	SE	no en processo de colo de la facilita de la facilit	(2) PA(	GE 13 OF 26
THEOEPARTMEN	CHI (Add	EMICAL LOCATION (4)	CUSTO		(5)	CONFIDENTIAL LOCATION EPCRA □YES ⊠NO 4; D-5; D-6
CHEMICAL NAME	(8)	NICKEL PLATING SOLUTION			TRADE SECRET * IF EPCRA SEE INSTRU	(11) ☐YES ⊠NO
COMMON NAME	(9)	·	7		AN EHS CHEMICA	
CAS#	(10)	NICKEL PLATE				S BOX IS 'YES'
FIRE CODE HAZARD CLASSES	(13)	Mixture	(36)	ACILITY ID#30		NTS MUST BE LBS
TYPE	(14)	DDUDE FAMILIES DIMAGE	F	RADIOACTIVE	(15) ☐YES	S ⊠NO CURIES
PHYSICAL STATE	(17)	□PURE ☑MIXTURE □WASTE □SOLID ☑LIQUID □GAS	L	ARGEST CONT	AINER (21) 800	
FED HAZARD	(18)	☐FIRE ☐REACTIVE ☐PRESS	SURE RI	ELEASE DA	CUTE HEALTH	CHRONIC HEALTH
STATE WASTE	(19)	UNITS (22) ⊠GAL □LBS	□Cl □TC		MAX DAILY	AMT (23) 800
DAYS ON SITE	(20)	*If EHS, amounts mus	st be in lb	os.	•	AMT (24) 800
	(26)	☐UNDER GOUND TANK  ☑TANK INSIDE BUILDING ☐STEEL DRUM	□CAN □CARBO □SILO □FIBER □BAG(S	□GLA DRUM □PLA	ANNUAL WASTE  X(S) LINDER ASS CONTAINER ASTIC CONTAINER MACHINERY OR EQ	□TANK WAGON □RAIL CAR □TOTE BIN □Other
PRESSURE STORAGE	(27)	□AMBIENT ⊠ABOVE AMBIENT	□BE	LOW AMBIEN	т	
STORAGE TEMPERATURE	(28)	□AMBIENT ⊠ABOVE AMBIENT	□BEL	OW AMBIENT	□CRYOGENIC	
(29) % WT		(30) HAZARDOUS COMPO	ONETS		(31) EHS	(32) CAS #
(1) 15		Nickel Sulfate			□YES ⊠NO	10101-97-0
(2) 6		Nickel Chloride			□YES ⊠NO	7718-54-9
(3)					□YES □NO	
(4)					□YES □NO	
(5)					□YES □NO	
If more hazardous components are p	present	t at greater than 1% by weight if non-carcinogenic, or 0.1	1% by weigh	nt if carcinogenic, attac	ch additional sheets of pape	r capturing the required information.
33) NFPA CLASSIFICATIO	N		~~		FPA 704 HAZARD [	DIAMOND
UN/DOT# 3082  Refer to shi	ipping	papers or MSDS			E (RED)  0	REACTIVE
DOT HAZARD CLASS				HEALTH (BLUE)		(YELLOW)
		efer to shipping papers or MSDS		H.A	PECIAL AZARD	(WHITE) OX / W

(34) EPCRA ☐YES ☒NO

(35) If EPCRA, Please Sign Here

## CALIFORNIA CHEMICAL INVENTORY FORM DESCRIPTION PAGE

FORM 3

CS (EST. 1928)		(1) ☐ ADD ☐ DELETE ☑ REVISE	(2) PAGE 14 OF 26
THE DEPARTMENT	CHE (Addr	INESS NAME  (3)  D & S CUSTOM PLATING  IN PLATING AREA  (4)  (5)  (6)  (7)  (7)  (8)  (9)  (9)  (1)  (1)  (1)  (2)  (3)  (4)  (5)  (6)  (7)  (7)  (7)  (7)  (8)  (9)  (9)  (1)  (1)  (1)  (1)  (2)  (3)  (4)  (5)  (6)  (7)  (7)  (7)  (7)  (8)  (9)  (9)  (1)  (1)  (1)  (1)  (2)  (3)  (4)  (5)  (6)  (7)  (7)  (7)  (7)  (8)  (9)  (9)  (9)  (1)  (1)  (1)  (1)  (1	G, INC.  (5) CONFIDENTIAL LOCATION EPCRA □YES ⊠NO GRID# ROM MAP)  (7) D-4; D-5; D-6
CHEMICAL NAME	(8)	NICKEL PLATING SOLUTION	TRADE SECRET (11) ☐YES ☑NO
COMMON NAME	(9)		AN EHS CHEMICAL (12) ☐YES ☑NO
CAS#	(10)	NICKEL PLATE	* IF EHS BOX IS 'YES'
FIRE CODE HAZARD CLASSES	(13)	(36) FACILITY ID#3 C	ALL AMOUNTS MUST BE LBS 0 0 3 5
TYPE PHYSICAL STATE	(14) (17)	RADIOACTIVE  □PURE ☑MIXTURE □WASTE  □SOLID ☑LIQUID □GAS  LARGEST CONT	(15) ☐YES ☑NO CURIES TAINER (21) 1,300
FED HAZARD CATEGORIES	(18)		CUTE HEALTH SCHRONIC HEALTH
STATE WASTE CODE	(19)	UNITS (22) ☐GAL ☐CU FT ☐LBS ☐TONS	MAX DAILY AMT (23) 2,800
DAYS ON SITE	(20)	* If EHS, amounts must be in lbs.	AVG DAILY AMT (24) 2,800
STORAGE CONTAINER	(26)	☑TANK INSIDE BUILDING ☐SILO ☐GL ☐STEEL DRUM ☐FIBER DRUM ☐PL	ANNUAL WASTE AMT (25)  DX(S)
PRESSURE STORAGE	(27)	□AMBIENT ☑ABOVE AMBIENT □BELOW AMBIEN	IT
STORAGE TEMPERATURE	(28)	□AMBIENT □ABOVE AMBIENT □BELOW AMBIENT	□CRYOGENIC
(29) % WT		(30) HAZARDOUS COMPONETS	(31) EHS (32) CAS#
(1) 15		Nickel Chloride	□YES ⊠NO 7718-54-9
(2) 6		Muriatic Acid	□YES ⊠NO 7647-01-0
(3)			☐YES ☐NO
(4)			□YES □NO
(5)		the state of the second of the	TYES INO
(33) NFPA CLASSIFICATION UN/DOT# 3082	ON hipping	papers or MSDS HEALT	NFPA 704 HAZARD DIAMOND RE (RED)  O  REACTIVE (YELLOW)
	R	efer to shipping papers or MSDS S	SPECIAL (WHITE) OX / W
(34) EPCRA ☐YES ☒NC	)	•	

(35) If EPCRA, Please Sign Here

## CALIFORNIA CHEMICAL INVENTORY FORM

GROEN GROZ		DESCRIPTION PAGE  FORM 3				
(3K(2))	(1) □ ADD □ DELETE ☑ REVISE	(2) PAGE 15 OF 26				
THE DEPARTMENT	BUSINESS NAME  CHEMICAL LOCATION (4) (Address, Area, Building, etc.) MAP # (if more than one)  (3)  D & S CUSTOM IN PLATING AREA  1 of 1	PLATING, INC.  A (5) CONFIDENTIAL LOCATION EPCRA □YES ⊠NO  GRID# (FROM MAP) (7) D-4; D-5; D-6				
CHEMICAL NAME COMMON NAME CAS # FIRE CODE HAZARD CLASSES	(8) NICKEL PLATING SOLUTION  (9) NICKEL STRIKE  (10) (36) FACULARITY	TRADE SECRET (11)  'IF EPCRA SEE INSTRUCTIONS  AN EHS CHEMICAL (12)  'IF EHS BOX IS 'YES'  ALL AMOUNTS MUST BE LBS  TTY ID# 3 0 0 3 5				
TYPE PHYSICAL STATE FED HAZARD CATEGORIES STATE WASTE CODE DAYS ON SITE	(14) PURE MIXTURE DWASTE	DACTIVE (15) ☐YES ☑NO CURIES SEST CONTAINER (21) 100				
STORAGE CONTAINER PRESSURE	(26) □ABOVE GROUND TANK □CAN □UNDER GOUND TANK □CARBOY ☑TANK INSIDE BUILDING □SILO □STEEL DRUM □FIBER DRU □PLASTIC/NONMETALLIC DRUM □BAG(S)	ANNUAL WASTE AMT (25)  BOX(S) TANK WAGON CYLINDER RAIL CAR GLASS CONTAINER TOTE BIN  M PLASTIC CONTAINER Other IN MACHINERY OR EQUIP.				
STORAGE STORAGE	(27) □AMBIENT ⊠ABOVE AMBIENT □BELOW (28) □AMBIENT ⊠ABOVE AMBIENT □BELOW	V AMBIENT ☐ CRYOGENIC				
(29) % WT (1) 15 (2) 10 (3) (4)	(30) HAZARDOUS COMPONETS  Nickel Chloride  Muriatic Acid	(31) EHS (32) CAS #  □YES ⊠NO 7718-54-9  □YES □NO □YES □NO □YES □NO				
(33) NFPA CLASSIFICATIO UN/DOT# 3082	pping papers or MSDS	NFPA 704 HAZARD DIAMOND FIRE (RED)  0  HEALTH (BLUE)  1  1  REACTIVE (YELLOW)				
(34) EPCRA □YES ☒NO	Verei to suibbind habers of MODS	SPECIAL (WHITE) OX / W				

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## CALIFORNIA CHEMICAL INVENTORY FORM

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GENESI 1926 MIT	,	DESCRIPTION	<b>VPAGE</b>		FURIVI 3
		(1) ☐ ADD ☐ DELETE ☑ REVISE		(2) P	AGE 16 OF 26
THE DEPARTMENT	CHI (Add	EMICAL LOCATION (4) ress, Area, Building, etc.)  # (if more than one)  (3)  D & S CUS  IN PLATING  1 of 1			5) CONFIDENTIAL LOCATION EPCRA TYES NO D-4; D-5; D-6
CHEMICAL NAME	(8)	CHELIDIC ACID MINTIPE		TRADE SECRE	T (11) □YES ⊠NO
COMMON NAME	(9)	SUFURIC ACID MIXTURE		TRADE SECRE  * IF EPCRA SEE INSTR  AN EHS CHEMICA	
CAS#	(10)	NICKEL STRIP			HS BOX IS 'YES'
FIRE CODE		Mixture	· · · · · · · · · · · · · · · · · · ·	1	UNTS MUST BE LBS
	(13)	(36	FACILITY ID#3 C	0 3 5	
TYPE	(14)	□PURE MMIXTURE □WASTE	RADIOACTIVE	(15) □YE	ES MNO CURIES
PHYSICAL STATE	(17)	□SOLID ⊠LIQUID □GAS	LARGEST CONT	TAINER (21) 80	
FED HAZARD CATEGORIES	(18)	□FIRE □REACTIVE □PRESSURE	RELEASE ⊠A	CUTE HEALTH	□CHRONIC HEALTH
STATE WASTE	(19)	I UNITO (ZZI (	CU FT TONS	MAX DAIL	Y AMT (23) 80
DAYS ON SITE	(20)	365 * If EHS, amounts must be in		AVG DAIL	Y AMT (24) 80
STORAGE CONTAINER ( PRESSURE	(26)	□ABOVE GROUND TANK □CAN □UNDER GOUND TANK □CAF ☑TANK INSIDE BUILDING □SILC □STEEL DRUM □FIBE □PLASTIC/NONMETALLIC DRUM □BAG	RBOY □CYI D □GL/ ER DRUM □PL/	ANNUAL WASTE  X(S)  LINDER  ASS CONTAINER  ASTIC CONTAINER  MACHINERY OR E	□TANK WAGON □RAIL CAR □TOTE BIN R □Other
	(27)	□AMBIENT □ABOVE AMBIENT □	BELOW AMBIEN	Т	
STORAGE TEMPERATURE (	(28)	□AMBIENT □ABOVE AMBIENT □B	ELOW AMBIENT	□CRYOGENIC	<b>&gt;</b>
(29) % WT	ı	(30) HAZARDOUS COMPONETS	3	(31) EHS	(32) CAS #
(1) 20		Sulfuric Acid		⊠YES □NO	7664-93-9
(2)				□YES □NO	
(3)		·		□YES □NO	
(4)				☐YES ☐NO	
(5)				□YES □NO	
		at greater than 1% by weight if non-carcinogenic, or 0.1% by we	ight if carcinogenic, attac	ch additional sheets of pap	er capturing the required information.
(33) NFPA CLASSIFICATION	N ——			IFPA 704 HAZARD	DIAMOND
UN/DOT# 1830 Refer to ship	pping	papers or MSDS	HEALTH (BLUE)	E (RED)	REACTIVE
DOT HAZARD CLASS (		ROSIVE fer to shipping papers or MSDS	(BEGE)		(YELLOW)
34) FPCRA □YES ⊠NO	HAZARU W OX / W				

(35) If EPCRA, Please Sign Here

## OEN GRO

## CALIFORNIA CHEMICAL INVENTORY FORM

EORM 3

G EST 1928 M		DESCRIPTION PAGE		FURM 3
		(1) ☐ ADD ☐ DELETE ☑ REVISE	(2) PAGE <u>17</u>	_OF26
OFPARTMES .	CH (Add	SINESS NAME (3)  EMICAL LOCATION (4) Iress, Area, Building, etc.) P # (if more than one) (6)  D & S CUSTOM PLATING IN PLATING AREA  1 of 1 (FR		NTIAL LOCATION □YES ⊠NO □-6
CHEMICAL NAME	(8)	NITRIC ACID MIXTURE	TRADE SECRET (11)	□YES ⊠NO
COMMON NAME	(9)		* IF EPCRA SEE INSTRUCTIONS	
CAS#	(10)	NITRIC STRIP	* IF EHS BOX IS	
FIRE CODE HAZARD CLASSES	(13)	Mixture (36) FACILITY ID# 3 0	ALL AMOUNTS MUST	
TYPE	(14)	RADIOACTIVE ☐ PURE ☑ MIXTURE ☐ WASTE	(15) ☐YES 図NO	CURIES
PHYSICAL STATE	(17)	□SOLID ☑LIQUID □GAS LARGEST CONTA	AINER (21) 80	
FED HAZARD CATEGORIES	(18)	□FIRE □REACTIVE □PRESSURE RELEASE 図AC	CUTE HEALTH CHRON	IC HEALTH
STATE WASTE CODE	(19)	UNITS (22) ☐GAL ☐CU FT ☐LBS ☐TONS	MAX DAILY AMT (23)	80
DAYS ON SITE	(20)	365 * If EHS, amounts must be in lbs.	AVG DAILY AMT (24)	
			ANNUAL WASTE AMT (25)	
	(26)	MATANK INSIDE BUILDING □SILO □GLA □STEEL DRUM □PLA:	(S)	E BIN
PRESSURE STORAGE	(27)	MAMBIENT □ABOVE AMBIENT □BELOW AMBIENT		· · · · · · · · · · · · · · · · · · ·
STORAGE TEMPERATURE	(28)	☑AMBIENT ☐ABOVE AMBIENT ☐ BELOW AMBIENT	□CRYOGENIC	
(29) % WT		(30) HAZARDOUS COMPONETS	(31) EHS (32)	CAS#
(1) 30		Nitric Acid	□YES ⊠NO 7697-32	
(2)			□YES □NO	
(3)			□YES □NO	
(4)			□YES □NO	
(5)			□YES □NO	
		at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach	additional sheets of paper capturing the	required information.
(33) NFPA CLASSIFICATIO	N		PA 704 HAZARD DIAMOND	
UN/DOT# 2031	pping	11000	(RED)	
DOT HAZARD CLASS		HEALIH	3 0 RE (YE	ACTIVE ELLOW)
2011112111000003		er to shipping papers or MSDS SPE	ECIAL OX (WHITE)	
(34) EPCRA ☐YES ☑NO		ΠΑΖ	CARD X / W	

# ADEN GAA

## CALIFORNIA CHEMICAL INVENTORY FORM

FORM 3

G. EST. 1928 M.	DESCRIPTION PAGE	1 01/111 0
	(1) DADD DELETE MENUCE	18 OF 26
THE DEPARTMENT	(Address, Area, Building, etc.)  IN PLATING AREA  EPC	FIDENTIAL LOCATION RA
CHEMICAL NAME	(8) SODIUM BIFLUORIDE TRADE SECRET (11)	□YES ⊠NO
COMMON NAME	(9) SODIUM BIFLUORIDE  TRADE SECRET (11)  IF EPCRA SEE INSTRUCTION  AN EHS CHEMICAL (12)	
CAS#	(10) * IF EHS BOX	
FIRE CODE HAZARD CLASSES	(13) Mixture ALL AMOUNTS M  (36) FACILITY ID: 3 0 0 3 5	
TYPE		NO CURIES
	(17)	
FED HAZARD		RONIC HEALTH
STATE WASTE	(19) UNITS (22) SGAL CU FT MAX DAILY AMT	
DAYS ON SITE	(20) * If EHS, amounts must be in lbs. AVG DAILY AMT	(24) 90
STORAGE CONTAINER PRESSURE	(26) UNDER GOUND TANK CARBOY CYLINDER CARBOY	TANK WAGON RAIL CAR TOTE BIN Other
STORAGE	(27) MAMBIENT DABOVE AMBIENT DELOW AMBIENT	
STORAGE TEMPERATURE	(28) MAMBIENT DABOVE AMBIENT DELOW AMBIENT DCRYOGENIC	
(29) % WT	(30) HAZARDOUS COMPONETS (31) EHS	(32) CAS#
(1) 10	Sodium Bifluoride □YES ☒NO 133	3-83-1
(2)	□YES □NO	
(3)	□YES □NO	
(4)	□YES □NO	
(5)	TYES INO	
(33) NFPA CLASSIFICATIO UN/DOT# 2439	FIRE (RED)  CORROSIVE  CORROSIVE  1011 A 704 HAZARD DIAM	OND  REACTIVE (YELLOW)
(34) EPCRA □YES ☒NO	HAZARD NOX	ITE) /W

# ODEN GRA

## CALIFORNIA CHEMICAL INVENTORY FORM

FORM 3

GA EST. 1928 Tri	DESCRIPTION PAGE			
	(1) ☐ ADD ☐ DELETE ☑ REVISE	(2) PAGE 19 OF 26		
THE DEPARTMENT	BUSINESS NAME  (3)  CHEMICAL LOCATION (Address, Area, Building, etc.) MAP # (if more than one)  (3)  D & S CUSTOM PLATING OUTSIDE, ADJACENT SO. WAS 1 of 1	1/5) CONFIDENTIAL LOCATION		
CHEMICAL NAME	(8) STILLELIDIC ACID	TRADE SECRET (11) □YES ☒NO		
COMMON NAME	(9) SULFURIC ACID	- IF EPCRA SEE INSTRUCTIONS		
CAS#	SULFURIC ACID	AN EHS CHEMICAL (12) ☐YES ☑NO * IF EHS BOX IS 'YES'		
FIRE CODE HAZARD CLASSES	Mixture  (36) FACILITY ID# 3	ALL AMOUNTS MUST BE LBS		
	RADIOACTIVE  14) □PURE ☑MIXTURE □WASTE LARGEST CON	(15) ☐YES ☑NO CURIES		
FED HAZARD	USOLID MLIQUID LIGAS			
CATEGORIES STATE WASTE		ACUTE HEALTH CHRONIC HEALTH		
	19) UNITS (22) SGAL CU FT LBS TONS	MAX DAILY AMT (23)		
DAYS ON SITE	20) 365 * If EHS, amounts must be in lbs.	AVG DAILY AMT (24)		
STORAGE CONTAINER (	26) □UNDER GOUND TANK □CARBOY □C □TANK INSIDE BUILDING □SILO □G □STEEL DRUM □FIBER DRUM □PI	ANNUAL WASTE AMT (25)  OX(S)		
STORAGE (	27) AMBIENT DABOVE AMBIENT DBELOW AMBIE	NT		
STORAGE TEMPERATURE (	(8) MAMBIENT MABOVE AMBIENT MELOW AMBIEN	T DCRYOGENIC		
(29) % WT	(30) HAZARDOUS COMPONETS	(31) EHS (32) CAS #		
(1) 93	Sulfuric Acid	⊠YES □NO 7664-93-9		
(2) 7	Water	□YES ⊠NO 7732-18-5		
(3)		□YES □NQ		
(4)		□YES □NO		
(5)		□YES □NO		
If more hazardous components are processing the state of	esent at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, att	ach additional sheets of paper capturing the required information.		
	FI	NFPA 704 HAZARD DIAMOND RE (RED)		
UN/DOT# 1830 Refer to ship  DOT HAZARD CLASS C	oing papers or MSDS HEALT	TH REACTIVE		
DOTTIALAND CLASS C	Oldrosivis	SPECIAL (WHITE)		
(34) EPCRA □YES ☒NO		HAZARD X / W		

(35) If EPCRA, Please Sign Here

# ODEN GRA

## CALIFORNIA CHEMICAL INVENTORY FORM

EODM 3

GA EST. 1928 IM	DESCRIPTION PAGE	LOVIAI 2
	(1) ☐ ADD ☐ DELETE ☑ REVISE	(2) PAGE 20 OF 26
THEOFPARTMEN	BUSINESS NAME  CHEMICAL LOCATION (4) (Address, Area, Building, etc.) MAP # (if more than one)  (3)  D & S CUSTOM PLATIN  IN PLATING AREA  1 of 1	G, INC.  (5) CONFIDENTIAL LOCATION EPCRA □YES ⊠NO  GRID# FROM MAP)  (7) D-4; D-5; D-6
CHEMICAL NAME	(8) ZDICATE	TRADE SECRET (11) ☐YES ☑NO
COMMON NAME	(9) ZINCATE	IF EPCRA SEE INSTRUCTIONS
CAS#	(10)	AN EHS CHEMICAL (12) ☐YES ☑NO * IF EHS BOX IS 'YES'
FIRE CODE HAZARD CLASSES	(13) Mixture (36) FACILITY ID# 3	ALL AMOUNTS MUST BE LBS
TYPE	(14) RADIOACTIVE	(15) □YES ☑NO CURIES
PHYSICAL STATE	(17) DPURE MMIXTURE DWASTE  LARGEST CON	TAINER (21) 90
FED HAZARD CATEGORIES		ACUTE HEALTH   CHRONIC HEALTH
STATE WASTE CODE	(19) UNITS (22) SGAL CUFT LBS TONS	MAX DAILY AMT (23) 90
DAYS ON SITE	(20) 365 * If EHS, amounts must be in lbs.	AVG DAILY AMT (24)
STORAGE CONTAINER PRESSURE	(26) ☐UNDER GOUND TANK ☐ CARBOY ☐ CY ☐ SILO ☐ GL ☐ STEEL DRUM ☐ FIBER DRUM ☐ PL	ANNUAL WASTE AMT (25)  DX(S)
STORAGE	(27) MAMBIENT DABOVE AMBIENT DBELOW AMBIEN	ır ·
STORAGE TEMPERATURE	(28) MAMBIENT MABOVE AMBIENT MBELOW AMBIENT	□CRYOGENIC
(29) % WT	(30) HAZARDOUS COMPONETS	(31) EHS (32) CAS #
(1) 1 - 10	Sodium Hydroxide	□YES ⊠NO 1310-73-2
(2) 20 - 40	Zinc Sulfate	□YES 図NO 7446-20-0
(3) 1 - 10	Copper Sulfate	□YES ⊠NO 7758-99-8
(4)		□YES □NO
(5)		□YES □NO
	present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, atta	ch additional sheets of paper capturing the required information.
(33) NFPA CLASSIFICATIO UN/DOT# 1760	, i	NFPA 704 HAZARD DIAMOND
Refer to shi	ipping papers or MSDS HEALTH CORROSIVE (BLUE)	REACTIVE (YELLOW)
	Refer to shipping papers or MSDS	PECIAL (WHITE) OX / W
(34) EPCRA ☐YES ☒NO		

## CALIFORNIA CHEMICAL INVENTORY FORM

FORM 3

GEST 1928 M	\ DESCRIPTION PAGE	. 3.7181
	(1) ☐ ADD ☐ DELETE ☒ REVISE (2) PAGE_	21 OF 26
THE DEPARTMENT	(Address, Area, Building, etc.)  MAP # (Known theory)  (S)  GRID#	FIDENTIAL LOCATION RA □YES ⊠NO D-5; D-6
CHEMICAL NAME	(8) TRADE SECRET (11)	) □YES ⊠NO
COMMON NAME	(9) ZINCATE TRADE SECRET (11 "IF EPORA SEE INSTRUCTION AN EHS CHEMICAL (12	
CAS#	(10) * IF EHS BO	
FIRE CODE HAZARD CLASSES	(13) Mixture ALL AMOUNTS M  (36) FACILITY ID# 3 0 0 3 5	· · · -
TYPE		NO CURIES
PHYSICAL STATE	(17) □PURE ☑MIXTURE □WASTE  (17) □SOLID ☑LIQUID □GAS  LARGEST CONTAINER (21) 450	
FED HAZARD CATEGORIES	(18) □FIRE □REACTIVE □PRESSURE RELEASE ☑ACUTE HEALTH □CH	RONIC HEALTH
STATE WASTE	(19) UNITS (22) SGAL CU FT MAX DAILY AMT	
DAYS ON SITE	(20) 365 * If EHS, amounts must be in lbs. AVG DAILY AMT	(24) 450
	ANNUAL WASTE AMT	(25)
STORAGE CONTAINER	(26) ☐UNDER GOUND TANK ☐CARBOY ☐CYLINDER ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	TANK WAGON RAIL CAR TOTE BIN
PRESSURE STORAGE	(27) ☑AMBIENT ☐ABOVE AMBIENT ☐ BELOW AMBIENT	
STORAGE TEMPERATURE	(28) MAMBIENT DABOVE AMBIENT DBELOW AMBIENT DCRYOGENIC	
(29) % WT	(30) HAZARDOUS COMPONETS (31) EHS	(32) CAS #
(1) 15	Copper Sulfate □YES ☑NO 775	58-98-7
(2) 4	Sulfuric Acid   ☑YES □NO 773	32-18-5
(3)	□YES □NO	
(4)	□YES □NO	
(5)	□YES □NO	
	e present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper captur	
(33) NFPA CLASSIFICATIO	ON NFPA 704 HAZARD DIAM FIRE (RED) ▶ ✓	OND
	hipping papers or MSDS  HEALTH	REACTIVE (YELLOW)
DOT HAZARD CLASS	CORROSIVE  Refer to shipping papers or MSDS  SPECIAL HAZARD OX	HITE)
(34) EPCRA ☐YES ☒NO		

# DEN GO

## CALIFORNIA CHEMICAL INVENTORY FORM

FORM 3

GARDESI 1920 IT		DESCRIPTION PAGE	I OKINI 3
(31: (32)		(1) ☐ ADD ☐ DELETE ☑ REVISE	(2) PAGE 22 OF 26
DEPARTMENT OF THE PARTMENT OF	CHI (Add	EMICAL LOCATION (4) ress, Area, Building, etc.)  P # (If more than one)  (3)  D & S CUSTOM PLATIN IN PLATING AREA  1 of 1	NG, INC.  (5) CONFIDENTIAL LOCATION EPCRA □YES ☑NO  GRID# (FROM MAP)  (7) D-4; D-5; D-6
CHEMICAL NAME	(8)	POTASSIUM MONOPENSULFATE	TRADE SECRET (11) □YES ☒NO
COMMON NAME	(9)		AN EHS CHEMICAL (12) ☐YES ☑NO
CAS#	(10)	ZINCATE STRIP	* IF EHS BOX IS 'YES'
FIRE CODE HAZARD CLASSES	(13)	Mixture (36) FACILITY ID# 3	ALL AMOUNTS MUST BE LBS
		RADIOACTIVE	
TYPE	(14)	□PURE ⊠MIXTURE □WASTE	
PHYSICAL STATE	(17)	□SOLID ☑LIQUID □GAS	NTAINER (21) 90
FED HAZARD CATEGORIES	(18)	☐FIRE ☐REACTIVE ☐PRESSURE RELEASE ☐	JACUTE HEALTH CHRONIC HEALTH
STATE WASTE CODE	(19)	UNITS (22) SGAL CU FT CHBS CTONS	MAX DAILY AMT (23) 90
DAYS ON SITE	(20)	* If EHS, amounts must be in lbs.	AVG DAILY AMT (24)
			ANNUAL WASTE AMT (25)
STORAGE CONTAINER	(26)	□UNDER GOUND TANK       □CARBOY       □CA	BOX(S)
PRESSURE STORAGE	(27)	☑AMBIENT ☐ABOVE AMBIENT ☐BELOW AMBIE	NT
STORAGE TEMPERATURE	(28)	MAMBIENT □ABOVE AMBIENT □BELOW AMBIEN	IT DCRYOGENIC
(29) % WT		(30) HAZARDOUS COMPONETS	(31) EHS (32) CAS #
(1) 6		Potassium Monopensulfate	□YES ⊠NO 70693-62-8
(2)			□YES □NO
(3)			□YES □NO
(4)			□YES □NO
(5)			□YES □NO
	gringristopii okside	at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, a	
(33) NFPA CLASSIFICATIO	)IN		NFPA 704 HAZARD DIAMOND  ☐IRE (RED)  ☐
UN/DOT# 3260  Refer to sh	ipping	papers or MSDS HEAL	TH REACTIVE
DOT HAZARD CLASS		ROSIVE (BLU step to shipping papers or MSDS	SPECIAL (WHITE) OX / W
(34) EPCRA ☐YES ☒NO			

(35) If EPCRA, Please Sign Here

# DEN GO

## CALIFORNIA CHEMICAL INVENTORY FORM

EODM 3

GENT 1926	11	DESCRIPTION PAGE	FORIAI 3	
		(1) ☐ ADD ☐ DELETE ☑ REVISE	(2) PAGE 23 OF 26	
THE DEPARTME	(Add	SINESS NAME (3)  EMICAL LOCATION (4) Irress, Area, Building, etc.) P # (if more than one) (6)  D & S CUSTOM PLATING OUTSIDE, ADJACENT SO. 1 of 1  (F	(5) CONFIDENTIAL LOCATION	
CHEMICAL NAME	(8)	WASTE METAL INDROVED SAME	TRADE SECRET (11) □YES ☒NO	
COMMON NAME	(9)	WASTE METAL HYDROXIDE SLUDGE	* IF EPCRA SEE INSTRUCTIONS	
CAS#	(10)			
FIRE CODE	` '	Mixture	* IF EHS BOX IS 'YES' ALL AMOUNTS MUST BE LBS	
HAZARD CLASSES	(13)	(36) FACILITY ID# 3 (	0 035	
		<u> </u>		
TYPE	(14)	RADIOACTIVE	(15) ☐YES 図NO CURIES	
PHYSICAL STATE	(17)	□SOLID ⊠LIQUID □GAS LARGEST CONT	TAINER (21) 500	
FED HAZARD CATEGORIES	(18)	☐FIRE ☐REACTIVE ☐PRESSURE RELEASE ☐A	CUTE HEALTH CHRONIC HEALTH	
STATE WASTE CODE	(19)	UNITS (22) ☑GAL ☐CU FT	MAX DAILY AMT (23) 500	
		LILBS LIONS	AVG DAILY AMT (24) 250	
DAYS ON SITE	(20)	* If EHS, amounts must be in lbs.		
STORAGE CONTAINER	(26)	│□TANK INSIDE BUILDING □SILO □GL □STEEL DRUM □FIBER DRUM □PL	ANNUAL WASTE AMT (25) 3,000  X(S)	
PRESSURE STORAGE	(27)	☑AMBIENT □ABOVE AMBIENT □BELOW AMBIEN		
STORAGE TEMPERATURE	(28)	☑AMBIENT ☐ABOVE AMBIENT ☐BELOW AMBIENT	□CRYOGENIC	
(29) % WT	, ,	(30) HAZARDOUS COMPONETS	(31) EHS (32) CAS #	
(1) < 0.25		Copper	□YES ⊠NO 7758-98-7	
(2) < 0.25		Nickel	□YES ⊠NO 10101-97-0	
(3) < 1.00		Chrome	☐YES ⊠NO 1333-82-0	
(4)			□YES □NO	
(5)			□YES □NO	
If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.				
(33) NFPA CLASSIFICATION NFPA 704 HAZARD DIAMOND				
UN/DOT# 3087  Refer to shipping papers or MSDS  HEALTH (BLUE)  REACTIVE (YELLOW)				
DOT HAZARD CLASS CORROSIVE  Refer to shipping papers or MSDS  SPECIAL (WHITE) HAZARD OX / W				
(34) EPCRA □YES ⊠N	0	HA HA	AZÁRD OX / W	

# DEN GRO

### CALIFORNIA CHEMICAL INVENTORY FORM

FORM 3

GATEST 1920 Tri		DESCRIPTION PAGE		I QIVINI O
		(1) ☐ ADD ☐ DELETE ☒ REVISE	(2) PAGE <u>24</u>	OF 26
THE DEPARTMENT	(Aut	SINESS NAME (3)  EMICAL LOCATION (4)  orress, Area, Building, etc.)  P # (if more than one) (3)  D & S CUSTOM PLATING  OUTSIDE, ADJACENT SO.  1 of 1  (F	(5) CONFIDE	ENTIAL LOCATION □YES ⊠NO
CHEMICAL NAME	(8)	WASTE METAL HYDROXIDE SLUDGE	TRADE SECRET (11)	□YES ⊠NO
COMMON NAME	(9)	WASTE METAL HIDROXIDE SLODGE	* IF EPCRA SEE INSTRUCTIONS AN EHS CHEMICAL (12)	□YES ⊠NO
CAS#	(10)		* IF EHS BOX IS	
FIRE CODE		Mixture	ALL AMOUNTS MUS	
HAZARD CLASSES	(13)	(36) FACILITY ID#3	0 0 3 5	
TYPE	(14)	RADIOACTIVE  □PURE □MIXTURE ☑WASTE  LARGEST CONT	(15) ☐YES 図NO	CURIES
PHYSICAL STATE FED HAZARD	(17)	MSOLID LIQUID LIGAS		
CATEGORIES STATE WASTE	(18)			NIC HEALTH
CODE	(19)	UNITS (22) ☐GAL ☐CU FT ☐LBS ☐TONS	MAX DAILY AMT (23	1,100
DAYS ON SITE	(20)	* If EHS, amounts must be in lbs.	AVG DAILY AMT (24	550
STORAGE CONTAINER PRESSURE	(26)	□TANK INSIDE BUILDING	LINDER DRA	NK WAGON IL CAR TE BIN
STORAGE	(27)	☑AMBIENT □ABOVE AMBIENT □BELOW AMBIEN	Т	
STORAGE TEMPERATURE	(28)	☑AMBIENT □ABOVE AMBIENT □BELOW AMBIENT	□CRYOGENIC	
(29) % WT		(30) HAZARDOUS COMPONETS	(31) EHS (32	2) CAS #
(1) 10 - 15		Copper	□YES ⊠NO 7758-9	8-7
(2) 10 - 15	-	Nickel	□YES ⊠NO 10101-	97-0
(3) 30 - 40		Chrome	□YES ⊠NO 1333-8	2-0
(4)			□YES □NO	
(5)			□YES □NO	
If more hazardous components are (33) NFPA CLASSIFICATION		at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attac		
		· · · · · · · · · · · · · · · · · · ·	IFPA 704 HAZARD DIAMON[ E (RED) <b>☞</b>	)
		papers or MSDS HEALTH	7 0	EACTIVE (ELLOW)
DOT HAZARD CLASS	Re	NODIVE.	PECIAL (WHITE)	)
(34) EPCRA ☐YES ☒NO				

# ROEN GRO

## CALIFORNIA CHEMICAL INVENTORY FORM

FORM 3

G EST. 1928 M	<b>.</b>	DESCRIPTION PAGE		
		(1) ☐ ADD ☐ DELETE ☑ REVISE	(2) PAGE 25 OF 26	
THE DEPARTMENT	CH (Add	EMICAL LOCATION (4)  The property of the prope	(5) CONFIDENTIAL LOCATION	
CHEMICAL NAME	(8)	WASTE NITRIG AGID MOZEVIDE	TRADE SECRET (11) ☐YES ☒NO	
COMMON NAME	(9)	WASTE NITRIC ACID MIXTURE	TRADE SECRET (11)  'IF EPCRA SEE INSTRUCTIONS  AN EHS CHEMICAL (12)  □YES ☑NO	
CAS#	(10)	WASTE NITRIC ACID	* IF EHS BOX IS 'YES'	
FIRE CODE HAZARD CLASSES	(13)	Mixture (36) FACILITY ID# 3 C	ALL AMOUNTS MUST BE LBS	
		RADIOACTIVE	(15) □YES 図NO CURIES	
TYPE	(14)	□PURE □MIXTURE ☑WASTE LARGEST CONT		
PHYSICAL STATE FED HAZARD	(17)	□SOLID ☑LIQUID □GAS	AINER (21) 55	
CATEGORIES	(18)		CUTE HEALTH CHRONIC HEALTH	
STATE WASTE CODE	(19)	791 UNITS (22) GAL CU FT CHARLES TONS	MAX DAILY AMT (23)	
DAYS ON SITE	(20)	* If EHS, amounts must be in lbs.	AVG DAILY AMT (24) 165	
			ANNUAL WASTE AMT (25) 1,980	
STORAGE CONTAINER	(26)	☐TANK INSIDE BUILDING ☐SILO ☐GL ☐STEEL DRUM ☐FIBER DRUM ☐PLA	X(S)	
PRESSURE STORAGE	(27)	MAMBIENT □ABOVE AMBIENT □BELOW AMBIEN	Т	
STORAGE TEMPERATURE	(28)	☑AMBIENT ☐ABOVE AMBIENT ☐BELOW AMBIENT	□CRYOGENIC	
(29) % WT	٠,	(30) HAZARDOUS COMPONETS	(31) EHS (32) CAS #	
(1) 30		Nitric Acid	□YES ⊠NO 7697-32-2	
(2)			□YES □NO	
(3)			□YES □NO	
(4)		·	□YES □NO	
(5)			□YES □NO	
If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.  (33) NFPA CLASSIFICATION  NEDA 704 HAZARD DIAMOND				
			IFPA 704 HAZARD DIAMOND E (RED)  ♠	
0N/D01# 1760				
Refer to shipping papers or MSDS  DOT HAZARD CLASS CORROSIVE    Corrosive				
	Re	fer to shipping papers or MSDS SF	PECIAL (WHITE) OX / W	
(34) EPCRA □YES ☒NO	,			

(35) If EPCRA, Please Sign Here

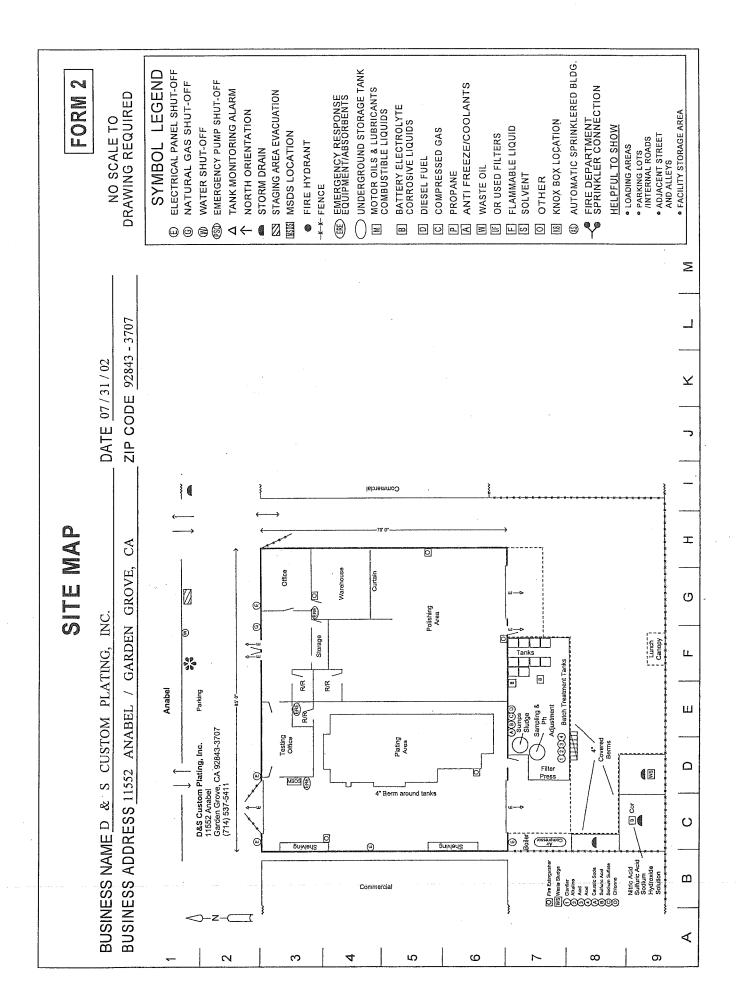
# ODEN GRO

## CALIFORNIA CHEMICAL INVENTORY FORM

EODM 2

G EST. 1928	DESCRIPTION PAGE				
	(1) □ AD	(1) ADD DELETE REVISE (2) PAGE 26 OF 26			
THE OFPARTME	BUSINESS NAM CHEMICAL LOC (Address, Area, Build MAP # (if more than	D & S (2) INSIDE, IN (4) I) OUTSIDE, IN (2) INSIDE, IN	CUSTOM PLATIN  UNDER COVERED AREA, AI PLATING AREA  (F	DJACENT BLDG.; (5) CON	IFIDENTIAL LOCATION CRA □YES ⊠NO D-5; D-6; D-7
CHEMICAL NAME	(8)	WA TED	,	TRADE SECRET (11	) □YES ⊠NO
COMMON NAME	(9) WASTE	WATER	The state of the s	TRADE SECRET (11 * IF EPCRA SEE INSTRUCTION AND ELIS CHERNICAL (46)	
CAS#	(10) WASTE	WATER	···	AN EHS CHEMICAL (12	· L
FIRE CODE HAZARD CLASSES	Mixture (13)		(36) FACILITY ID# 3 (	ALL AMOUNTS  O 0 3 5	
TYPE	(14) □PURE	□MIXTURE \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	RADIOACTIVE	(15) ☐YES 🗵	INO CURIES
PHYSICAL STATE FED HAZARD	(17) SOLID	⊠LIQUID □GAS	LARGEST CON	TAINER (21) 500	
CATEGORIES	(18) □FIRE	□REACTIVE □PRESS	URE RELEASE DA	CUTE HEALTH	RONIC HEALTH
STATE WASTE CODE	(19) 121	UNITS (22) ⊠GAL □LBS	□CU FT □TONS	MAX DAILY AMT	(23) 500
DAYS ON SITE	(20) 365	* If EHS, amounts must	be in lbs.	AVG DAILY AMT	(24) 250
STORAGE CONTAINER PRESSURE	(26) UNDER TANK IN USTEEL D	GOUND TANK   SIDE BUILDING   DRUM	ISILO □GL IFIBER DRUM □PL	LINDER E ASS CONTAINER E	(25) 2,000 ITANK WAGON IRAIL CAR ITOTE BIN IOther
STORAGE	(27) ⊠AMBIEN	IT □ABOVE AMBIENT	☐BELOW AMBIEN	Т	
STORAGE TEMPERATURE	(28) AMBIEN	IT □ABOVE AMBIENT	☐BELOW AMBIENT	□CRYOGENIC	
(29) % WT		(30) HAZARDOUS COMPON	NETS	(31) EHS	(32) CAS #
(1) < 0.25	Copper			□YES ⊠NO 775	8-98-7
(2) < 0.25	Nickel			□YES ⊠NO 101	01-97-0
(3) < 1.00	Chrome			□YES ⊠NO 133	3-82-0
(4)				□YES □NO '	
(5)				□YES □NO	
If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.					
UN/DOT# N/A	pping papers or MSE	DS .	FIR	IFPA 704 HAZARD DIAM E (RED)  0  4	OND REACTIVE
DOT HAZARD CLASS N/A    N/A					
Refer to shipping papers or MSDS  (34) EPCRA □YES ☒NO			SF H <i>A</i>	PECIAL (WH	IITE) / W

MAKE AS MANY COPIES OF CHEMICAL (35) If EPCRA, Please Sign Here



Page 8

### GARDEN GROVE FIRE DEPARTMENT HAZARDOUS MATERIALS DISCLOSURE PROGRAM

### **BUSINESS EMERGENCY PLAN**

### Personnel Emergency Notifications and Responsibilities

### **Employee Evacuation and Staging Areas:**

1.	The type of alarm signal that will be used to initiate an evacuation a facility: (vocal, paging system, manual alarm, etc.)	at the

VOCAL

- 2. All employees shall be trained to evacuate the facility through at least one exit. Alternate exit routes shall be designated if available.
- 3. Staging areas shall be designated for all employees. Staging areas will be the location that all employees shall report to in the event of an emergency.

One person shall be designated to account for all personnel at the staging area. That person will be responsible for meeting the incoming Fire units and reporting the conditions known about the incident.

The Staging area is at the following location as shown on your site plan map.

NORTH OF BUILDING, ADJACENT ANABEL STREET

### Employee Responsibilities:

At least one employee shall be responsible for the following minimum requirements in the event of an emergency response by the Fire Department.

- 1. Notify employees. Initiate evacuation procedures.
- 2. Notify the Garden Grove Fire Department. Dial 911
- 3. Try to identify the nature of the incident.
- 4. Report to the staging area and account for evacuated employees.
- 5. Report to the incoming fire units.
- 6. Activate any emergency mitigation procedures that are available at your business. (List below any mitigation procedures specific to your business, if any.)

### GARDEN GROVE FIRE DEPARTMENT HAZARDOUS MATERIALS DISCLOSURE PROGRAM

### **BUSINESS EMERGENCY PLAN**

### Personnel Emergency Notifications and Responsibilities

### Training Requirements

State law requires training of employees where the business uses, handles or stores hazardous materials.

Employee training provided on:

- Appointment of person/persons on site who are trained in key role positions. Emergency coordinator, evacuation coordinators, staging area supervisors and documenting officers.
- Procedures to follow during a release or threatened release of a hazardous material (evacuation to staging areas).
- Information contained in material safety data sheets.
- Warning labels/ placards.
- Safe work practices,
- Use of on site emergency equipment and supplies.
- Use and location of personal protective equipment.
- Any chemical, hazardous material or substance that could be encountered in his/her work area.
- On-site alarm system for evacuation.
- Discuss possible release of hazardous materials scenario.

### **Emergency Notifications**

A handler of hazardous materials is required to immediately report any release or threatened release of hazardous materials to the Garden Grove Fire Department. Failure to do so may result in criminal and/or civil prosecution.

### Required Notifications

In the event of a release or threatened release of hazardous materials, it is state law to notify each of the following agencies:

Agency	Phone Numbers
Garden Grove Fire Department, Police, Paramedics Office of Emergency Services (OES) National Response Center	911 (800) 852-7550 OR (916) 427-4341 (800) 424-8802

## GARDEN GROVE FIRE DEPARTMENT HAZARDOUS MATERIALS DISCLOSURE PROGRAM

### **BUSINESS EMERGENCY PLAN**

### Personnel Emergency Notifications and Responsibilities

### Prevention

All materials are stored, used and handled within the guidelines of the Uniform Fire Code, N.F.P.A. standards, California Administrative Code, Titles 19 and 20.

This section is meant to initiate a Prevention Plan at your business and to assist in preventing a release, or threatened release, of a hazardous material. In the spaces provided, place a checkmark by the preventive actions which have been initiated by your business to abate hazards relating to hazardous material handling, use of storage.

### Consideration shall include:

1.	Drum s	Drum storage and/or above ground tank storage areas:					
	a_X_	Isolation and separation of incompatible materials					
	b_X_	Diking areas to contain spills					
	c	Storage on paved ground					
2.	Compre	Compressed and/or cryogenic gas storage areas:					
	a	Cylinders stored upright and secured					
	b	Isolation and/or separation of incompatible cylinders (oxygen and flammable gases, etc.)					
3.	Genera	ıl:					
	a_X_	Safe work practices are exercised in daily routines.					
	b_X_	Employees who handle hazardous materials are properly trained.					
	c_X_	Material Safety Data Sheets (MSDS) readily available for each hazardous material on the premises.					
	d_X_	Labeling of all materials and storage areas with the product name and hazards associated with the product (drums, piping, tanks, etc.)					
	e_X_	Uniform Fire Code (UFC) requires separation between outside hazardous material storage area or tanks and combustible materials (wood, bush, etc.)					
	f_X_	Posting of "No Smoking" signs where appropriate.					

### GARDEN GROVE FIRE DEPARTMENT

### BUSINESS EMERGENCY PLAN

A BUSINESS IS REQUIRED BY LAW TO NOTIFY THE GARDEN GROVE FIRE DEPARTMENT WITHIN 30 DAYS OF ANY OF THE FOLLOWING EVENTS:

- 1. Change of business address.
- 2. Change of business ownership

3. Change of business name

4. Cessation of business operation (quitting business)
5. Use or handling of a previously undisclosed hazardous material
6. A 100% increase in the quantity of a previously disclosed hazardous material

Your business is required by State law to retain a copy of this entire Business Plan, chemical inventory, material safety data sheets and site maps, for review by Fire Department personnel. State where your disclosure and Emergency Business Plan will be kept.

RECORDS ARE KEPT IN HAZMAT BINDER, ADJACENT TESTING OFFICE.

Show location on site map also using symbol in the legend.

Note: A fee is charged for a replacement copy from the Garden Grove Fire Department.

I CERTIFY, UNDER PENALTY OF PERJURY, THAT THE ENCLOSED INFORMATION IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.

SIGNATURE: NAME: DOUGLAS L. BUSH TITLE: C.E.O. / OWNER DATE: 01/14/03

### EMERGENCY RELEASE FOLLOW-UP NOTICE REPORTING FORM

A	BUSINESS NAME	FACILITY EMERGENC	Y CONTACT & PHONE NUMBER				
	D & S CUSTOM PLATING, INC.	DOUGLAS L. BUSH	(714) 537-5411				
В	INCIDENT MO DAY YR DATE / / / OES NOTIFIED	(use 24 hr time)	OES CONTROL NO. / / / / /				
С	INCIDENT ADDRESS LOCATION	CITY / COMMUNITY	COUNTY ZIP				
	11552 ANABEL	GARDEN GROVE	ORANGE 92843 - 3707				
	CHEMICAL OR TRADE NAME (print or type)		CAS Number				
D	CHECK IF CHEMICAL IS LISTED IN  40 CFR 355, APPENDIX A	_	SE REQUIRES NOTIFI- 2 U.S.C. Section 9603 (a)				
		SICAL STATE RELEAS OLID LIQUID (					
	ENVIRONMENTAL CONTAMINATION  AIR WATER  GROUND OTHER	TIME OF RELEASE	DURATION OF RELEASEDAYSHOURSMINUTES				
E	ACTIONS TAKEN						
F	KNOWN OR ANTICIPATED HEALTH EFFECTS (Use the comments section for additional information)  ACUTE OR IMMEDIATE (explain)  CHRONIC OR DELAYED (explain)  NOT KNOWN (explain)						
G	ADVICE REGARDING MEDICAL ATTENTION NECESSARY FOR EXPOSED INDIVIDUALS						
Н		TEM WITH COMMENTS OF	· •				
	CERTIFICATION: I certify under penalty of law that information submitted and believe the submitted information FACILITY REPRESENTATIVE (print SIGNATURE OR REPORTING FACILITY REPRESENTATIVE)	rmation is true, accurate, a	nd complete.				

### MATERIAL SAFETY DATA SHEET SECTION 1 - IDENTIFICATION DATA F DERICK GUMM CHEMICAL COMPANY, INC. Emergency Telephone Numbers: CHEMTREC 800-424-9300 (24HR) 5.5 Forest Street, Kearny, NJ 07032 8:00 AM - 5:00 PM EST CLEPO 88-A 201-991-4174 Information D.O.T. HAZARD CLASS - Non-DOT Regulated CHEMICAL FAMILY - Alkaline cleaner Effective Date: 07-05-93 CHEMICAL NAME/SYNONYMS - CLEPO 88-A FORMULA - Mixture MSDS REVIEWED BY - Keith Frey, V.P. Quality & Regulatory Affairs SECTION 2 - PHYSICAL DATA BOILING POINT (Deg F) - NA VAPOR PRESSURE (mm Hg) - NA VAPOR DENSITY (air=1) - NA SOLUBILITY IN WATER - Complete to 32 oz/gal SPECIFIC GRAVITY (H20=1) - NA VOLATILE BY VOLUME - NA EVAPORATION RATE (H2O=1) - NA APPEARANCE & ODOR: Off white powder SECTION 3 - FIRE AND EXPLOSION DATA FLASH POINT - None EXTINGUISHING MEDIA: This product is not combustible. SPECIAL FIRE FIGHTING PROCEDURES: Protective clothing and self-contained breathing apparatus should be worn by firefighters in areas where product is stored. Water spray, foam, dry chemical, or carbon dioxide may be used in areas where product is stored. UNUSUAL FIRE AND EXPLOSION HAZARDS: None NFPA HAZARD CLASSIFICATION: DEGREE OF HAZARD \_\_\_\_\_\_ Health

V erial Safety Data Sheet for CLEPO 88-A

(Blue) - 1

Flammability (Red)

Reactivity (Yellow) - 1

page: 1

4=Extreme

2=Moderate 1=Slight

0=Insignficant

3=High

## SECTION 4 - REACTIVITY DATA

E BILITY: Stable

CONDITIONS TO AVOID: NA

INCOMPATIBILITY:

Strong acids

HAZARDOUS DECOMPOSITION PRODUCTS:

None

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: NA

SECTION 5 - HAZARDOUS COMPONENTS

PAINTS, PRESERVATIVES, AND SOLVENTS:

NA

ALLOYS AND METALLIC COATINGS:

NA

HAZARDOUS COMPONENTS	CAS NUMBER	$\mathtt{TLV}$	PEL	LD50	બ
Sodium Silicate	6834-92-0	C 2	2	800	51.0
Tetrasodium Pyrophosphate	7722-88-5	5	NF	4000	24.0
Tri Sodium Phosphate	7601-54-9	NF	NF	7400	9.00
orate Decahydrate	1303-96-4	5	NF	2660	10.0
TLV = Mg/M3 - PEL = Mg/M3 -	LD50 = oral, rat,	Mg/Kg	- NF	= None	

- # The indicated material, if any, is listed as a carginogen or potential carginogen by one or more of the following: National Toxicology Program, I.A.R.C. Monographs, OSHA.
- \*\* The indicated material, if any, does not have an established TLV, but does appear on one or more of the following states hazardous substance lists: Connecticut, Illinois, Michigan, Maine, Massachusetts, Minnesota, New Hampshire, New Jersey, New York, Oregon, Rhode Island, West Virginia, and Wisconsin, and is present in this product in amounts greater than 1%.
- & The indicated material, if any, is subject to the reporting requirements of SARA Title III, Section 313

SECTION 6 - SPILL, LEAK, AND DISPOSAL PROCEDURES

#### SPILL & LEAK PROCEDURES:

Spilled material may be shoveled up, and stored in closed containers for possible normal use or proper disposal. Flush area with plenty of water.

rerial Safety Data Sheet for CLEPO 88-A page: 2

SECTION 6 - SPILL, LEAK, AND DISPOSAL PROCEDURES continued

#### TE DISPOSAL METHODS:

SECTION 7 - HEALTH HAZARD DATA

#### ROUTES OF EXPOSURE

INHALATION: Coughing, sneezing, or other symptoms of upper respiratory tract irritation may occur. Severe exposure may result in lung tissue damage.

SKIN CONTACT: Dry product can be a skin irritant. May cause severe burns if not washed immediately.

SKIN ABSORPTION: N/A

**EYE CONTACT:** Dry product can cause tissue destruction and permanent eye damage if not treated immediately.

INGESTION: Dry product burns mucous membranes of the mouth, throat, esophagus, and stomach.

#### EFFECTS OF OVEREXPOSURE

ACUTE: Burns the mucous membranes of the respiratory tract, mouth, throat, esophagus, and stomach. Burns to eye and skin and possible permanent corneal damage.

CHRONIC: The chronic local effect may consist of multiple areas of superficial destruction of the skin or of primary irritant dermatitis. Similarly, inhalation of spray or mists may result in varying degrees of irritation.

### EMERGENCY AND FIRST AID PROCEDURES

EYES: IMMEDIATELY flush eyes with large amounts of water for at least 15 minutes holding lids apart to ensure flushing of the entire surface. Washing eyes within one minute is essential to achieve maximum effectiveness. Seek medical attention immediately.

SKIN: Wash with plenty of water for 15 minutes. Remove contaminated clothing and footwear, and wash clothing before reuse. Discard any piece of clothing or footwear that can not be decontaminated. Seek medical attention if symptoms are present.

INHALATION: Get person out of contaminated area to fresh air.

INGESTION: NEVER give anything by mouth to an unconscious person. If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. If available, give several glasses of milk. If vomiting occurs spontaneously, keep airway clear. Seek medical attention immediately.

Material Safety Data Sheet for CLEPO 88-A

#### SECTION 8 - SPECIAL HANDLING PROCEDURES

Respiration protection is not required under normal use. F PIRATORY: Use NIOSH/MSHA approved respirator where dust, mist, or spray may be generated above TLV limit.

VENTILATION: Use adequate local exhaust ventilation where dust, mist, or spray may be generated to maintain level below TLV limit.

Impervious gloves should be worn (ex. rubber or neoprene).

Chemical safety goggles and/or face shield.

OTHER: Chemically resistant shoes and apron. Safety showers and eyewash facilities should be accessible. Wash contaminated clothing with soap and water, and dry before reuse. 

#### SECTION 9 - SPECIAL PRECAUTIONS

\_\_\_\_\_\_\_

#### HANDLING AND STORAGE PRECAUTIONS:

Avoid contact with the skin and eyes. Wash thoroughly after handling. FOR POWDERS:

1. Store in a cool, dry area in a closed container. OTHER PRECAUTIONS:

Keep container tightly closed when not in use. Wash thoroughly after handling. Containers, even those that have been emptied, will retain product residue and vapors. Always obey hazard warnings and handle empty containers as if they were full. Containers must not be used for any other purpose.

The information herein is based on technical data that is believed to be reliable. It is intended for use by persons having technical skill and at their own discretion and risk. Since conditions of use are outside our control, we make no warrenties, expressed or implied, and assume no liability in connection with the use of this information. 

Material Safety Data Sheet for CLEPO 88-A page: 4

#### MATERIAL SAFETY DATA SHEET

\_\_\_\_\_\_\_

#### SECTION 1 - IDENTIFICATION DATA

DERICK GUMM CHEMICAL COMPANY, INC.

558 Forest Street, Kearny, NJ 07032

Emergency Telephone Numbers: CHEMTREC 800-424-9300 (24HR)

8:00 AM - 5:00 PM EST 201-991-4174 Information

CLEPO 197-A

Effective Date:

D.O.T. HAZARD CLASS - Corrosive Solid NOS CHEMICAL FAMILY - Acid salt

01-26-90

CHEMICAL NAME/SYNONYMS - CLEPO 197-A

FORMULA

- Mixture

MSDS REVIEWED BY - Keith Frey, V.P. Quality & Regulatory Affairs \_\_\_\_\_\_

#### SECTION 2 - PHYSICAL DATA

\_\_\_\_\_\_\_

- NA BOILING POINT (Deg F) VAPOR PRESSURE (mm Hg) - NA

VAPOR DENSITY (air=1) - NA SOLUBILITY IN WATER - Complete to 32 oz/gal

SPECIFIC GRAVITY (H20=1) - NA VOLATILE BY VOLUME - NA EVAPORATION RATE (H2O=1) - NA

APPEARANCE & ODOR:

Off white granuals

SECTION 3 - FIRE AND EXPLOSION DATA

FLASH POINT - None

#### EXTINGUISHING MEDIA:

This product is not combustible.

#### SPECIAL FIRE FIGHTING PROCEDURES:

Protective clothing and self-contained breathing apparatus should be worn by firefighters in areas where product is stored. Water spray, foam, dry chemical, or carbon dioxide may be used in areas where product is stored.

#### UNUSUAL FIRE AND EXPLOSION HAZARDS:

At temp >570 F, hazardous fumes of sulfur dioxide & trioxide, HF & ammonia They must be eliminated by forced drafted ventilation. are evolved.

#### NFPA HAZARD CLASSIFICATION:

#### DEGREE OF HAZARD \_\_\_\_\_\_\_

Health	(Blue)		3		4=Extreme
Flammability	(Red)	-	0		3=High
Reactivity	(Yellow)	_	1		2=Moderate
					1=Slight
					0=Insignficant

I erial Safety Data Sheet for CLEPO 197-A

#### SECTION 4 - REACTIVITY DATA

BILITY: Stable

CONDITIONS TO AVOID: NA

#### INCOMPATIBILITY:

Should not be mixed with strong alkalies.

#### HAZARDOUS DECOMPOSITION PRODUCTS:

None expected, except under extreme heat as mentioned above under UNUSUAL FIRE AND EXPLOSION HAZARDS.

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: NA

SECTION 5 - HAZARDOUS COMPONENTS 

PAINTS, PRESERVATIVES, AND SOLVENTS:

ALLOYS AND METALLIC COATINGS:

NA

HAZARDOUS COMPONENTS	CAS NUMBER	$\mathtt{TLV}$	PEL	LD50	%
Sodium Bisulfate	7681-38-1	NF	NF	NF	78.2
Ammonium Bifluoride	1341-49-7	2.5	2.5	350	5.00
Proprietary (NJTSR#-010625-5034-P)	*****	NF	NF	NF	2.00
L = Mg/M3 - PEL = Mg/M3 - LD50	= oral, rat,	Mg/Kg	- NF	= None	Found

- # The indicated material, if any, is listed as a carginogen or potential carginogen by one or more of the following: National Toxicology Program, I.A.R.C. Monographs, OSHA.
- \*\* The indicated material, if any, does not have an estabished TLV, but does appear on one or more of the following states hazardous substance lists: Connecticut, Illinois, Michigan, Maine, Massachusetts, Minnesota, New Hampshire, New Jersey, New York, Oregon, Rhode Island, West Virginia, and Wisconsin, and is present in this product in amounts greater than 1%.
- & The indicated material, if any, is subject to the reporting requirements of SARA Title III, Section 313

SECTION 6 - SPILL, LEAK, AND DISPOSAL PROCEDURES 

#### SPILL & LEAK PROCEDURES:

Spilled material may be shoveled up, and stored in closed containers for possible normal use or proper disposal. Flush area with plenty of water. Mild alkali or lime solutions may be used to neutralize final traces immediately after flushing.

erial Safety Data Sheet for CLEPO 197-A

SECTION 6 - SPILL, LEAK, AND DISPOSAL PROCEDURES continued \_\_\_\_\_\_\_

#### TE DISPOSAL METHODS:

Acid waste solutions should not be discharged into sewers or streams. should first be neutralized with dilute alkali or lime (to precipitate fluoride) solutions to a locally acceptable pH, and then well diluted with water. Depending on usage and locality, may also require precipitation and filtration of heavy metals. Obey all Federal, State, and Local laws.

\_\_\_\_\_\_

#### SECTION 7 - HEALTH HAZARD DATA

\_\_\_\_\_\_\_

#### ROUTES OF EXPOSURE

Breathing dust, mist, spray, or fumes may cause irritation to INHALATION: the respiratory system. Gross over exposure may result in further toxic effects, including difficult breathing and coughing.

This product is destructive to tissues contacted and may SKIN CONTACT: produce severe burns.

SKIN ABSORPTION: See SKIN CONTACT above. Also, high concentrations of fluoride in the urine have been reported following skin contact.

This product is destructive to eye tissues on contact. cause severe burns that result in damage to the eyes and even blindness.

This product, if swallowed, will cause severe burns of the mouth and stomach, and may cause complete tissue perforation. Other symptoms include severe shock, convulsions, toxic nephritis, cardiac disturbances, and poisoning due to hypocalcemia (precipitation of body calcium). EFFECTS OF OVEREXPOSURE

Corrosive to all body tissues with which it comes in contact. Possible fluoride poisoning if swallowed.

CHRONIC: Data not available.

#### EMERGENCY AND FIRST AID PROCEDURES

IMMEDIATELY flush eyes with large amounts of water for at least 15 EYES: minutes, holding lids apart to ensure flushing of the entire surface. Washing eyes within 1 minute is essential to achieve maximum effectiveness. Seek medical attention immediately.

Immediately wash contaminated areas with plenty of water for 15 SKIN: Remove contaminated clothing and footwear, and wash clothing before reuse. Discard any clothing that can not be decontaminated. Seek medical attention immediately.

Get person out of contaminated area to fresh air. breathing has stopped, resuscitate and administer oxygen if readily available. Seek medical attention immediately.

page: 3

Material Safety Data Sheet for CLEPO 197-A

=======================================	SECTION 7 - HEAI	LTH HAZARD DATA	continued	
(ex. milk of ma	G. Give large qua	antities of milk & water). If v	k, or other comiting occu	erson. DO NOT alcium-containing ars spontaneously,

#### SECTION 8 - SPECIAL HANDLING PROCEDURES

RESPIRATORY: Respiration protection is not required under normal use. Use NIOSH/MSHA approved respirator where dust, mist, or spray may be generated above TLV limit.

**VENTILATION:** Use adequate local exhaust ventilation where dust, mist, or spray may be generated, to maintain level below TLV limit.

GLOVES: Impervious gloves should be worn (ex. rubber or neoprene).

EYES: Chemical safety goggles and/or face shield.

OTHER: Chemically resistant shoes and apron. Safety showers and eyewash facilities should be accessible. All contaminated clothing should be washed with soap and water, and dried before reuse.

\_\_\_\_\_\_\_

#### SECTION 9 - SPECIAL PRECAUTIONS

#### HANDLING AND STORAGE PRECAUTIONS:

Avoid contact with strong alkali. Will etch glass over prolonged period of time. Powder dissolves in water to form an acidic solution. Store in a cool dry area, in a closed container. Avoid contact with skin and eyes.

#### ( ER PRECAUTIONS:

Keep container tightly closed when not in use. Wash thoroughly after handling. Containers, even those that have been emptied, will retain product residue and vapors. Always obey hazard warnings and handle empty containers as if they were full. Containers must not be used for any other purpose.

The information herein is based on technical data that is believed to be reliable. It is intended for use by persons having technical skill and at their own discretion and risk. Since conditions of use are outside our control, we make no warrenties, expressed or implied, and assume no liability in connection with the use of this information.

Material Safety Data Sheet for CLEPO 197-A

#### MATERIAL SAFETY DATA SHEET

\_\_\_\_\_\_\_

SECTION 1 - IDENTIFICATION DATA

1 DERICK GUMM CHEMICAL COMPANY, INC.
556 Forest Street, Kearny, NJ 07032

Emergency Telephone Numbers: CHEMTREC 800-424-9300 (24HR)

8:00 AM - 5:00 PM EST

CLEPO 198-JA

201-991-4174 Information

D.O.T. HAZARD CLASS - Corrosive Solid NOS, UN1759, PGII

Effective Date:

CHEMICAL FAMILY - (Cnts Ammonium Hydrogen Fluoride) 12-02-94

CHEMICAL NAME/SYNONYMS - CLEPO 198-JA

FORMULA - Mixture
MSDS REVIEWED BY - Keith Frey, V.P. Quality & Regulatory Affairs

\_\_\_\_\_\_

SECTION 2 - PHYSICAL DATA

\_\_\_\_\_\_

BOILING POINT (Deg F) - NA
VAPOR PRESSURE (mm Hg) - NA
VAPOR DENSITY (air=1) - NA
SOLUBILITY IN WATER - Complete to 32 oz/gal

SPECIFIC GRAVITY (H20=1) - NA VOLATILE BY VOLUME - NA EVAPORATION RATE (H2O=1) - NA

APPEARANCE & ODOR: Off white granuals

. \_\_\_\_\_\_\_

#### SECTION 3 - FIRE AND EXPLOSION DATA

\_\_\_\_\_\_

FLASH POINT - None

#### EXTINGUISHING MEDIA:

This product is not combustible.

#### SPECIAL FIRE FIGHTING PROCEDURES:

Protective clothing and self-contained breathing apparatus should be worn by firefighters in areas where product is stored. Water spray, foam, dry chemical, or carbon dioxide may be used in areas where product is stored.

#### UNUSUAL FIRE AND EXPLOSION HAZARDS:

At temp >570 F, hazardous fumes of sulfur dioxide & trioxide, HF & ammonia are evolved. They must be eliminated by forced drafted ventilation.

#### NFPA HAZARD CLASSIFICATION:

#### DEGREE OF HAZARD \_\_\_\_\_

Health (Blue) 4=Extreme Flammability (Red) - 0 3=Hiah Reactivity (Yellow) - 1 2=Moderate 1=Slight 0=Insignficant 

Macerial Safety Data Sheet for CLEPO 198-JA

#### SECTION 4 - REACTIVITY DATA

BILITY: Stable

CONDITIONS TO AVOID: NA

#### INCOMPATIBILITY:

Should not be mixed with strong alkalies.

#### HAZARDOUS DECOMPOSITION PRODUCTS:

None expected, except under extreme heat as mentioned above under UNUSUAL FIRE AND EXPLOSION HAZARDS.

#### HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: NA

#### SECTION 5 - HAZARDOUS COMPONENTS

#### PAINTS, PRESERVATIVES, AND SOLVENTS:

NA

ALLOYS AND METALLIC COATINGS:

NA

HAZARDOUS COMPONENTS	CAS NUMBER	$\mathtt{TLV}$	PEL	LD50	%
Sodium Bisulfate	7681-38-1	NF	NF	NF	78.2
Ammonium Bifluoride	1341-49-7	2.5	2.5	350	5.00
Proprietary (NJTSR#-010625-5034-P)	*****	NF	NF	NF	2.00
, 3-Diethylthiourea	105-55-5	NF	NF	316	0.10
TLV = Mq/M3 - PEL = Mq/M3 - LD50	= oral, rat,	Ma/Ka	- NF	= None	Found

- # The indicated material, if any, is listed as a carginogen or potential carginogen by one or more of the following: National Toxicology Program, I.A.R.C. Monographs, OSHA.
- \*\* The indicated material, if any, does not have an established TLV, but does appear on one or more of the following states hazardous substance lists: Connecticut, Illinois, Michigan, Maine, Massachusetts, Minnesota, New Hampshire, New Jersey, New York, Oregon, Rhode Island, West Virginia, and Wisconsin, and is present in this product in amounts greater than 1%.
- & The indicated material, if any, is subject to the reporting requirements of SARA Title III, Section 313

SECTION 6 - SPILL, LEAK, AND DISPOSAL PROCEDURES

#### SPILL & LEAK PROCEDURES:

Spilled material may be shoveled up, and stored in closed containers for possible normal use or proper disposal. Flush area with plenty of water. Mild alkali or lime solutions may be used to neutralize final traces immediately after flushing.

Material Safety Data Sheet for CLEPO 198-JA

SECTION 6 - SPILL, LEAK, AND DISPOSAL PROCEDURES continued

\_\_\_\_\_\_

#### TE DISPOSAL METHODS:

Acid waste solutions should not be discharged into sewers or streams. Acid should first be neutralized with dilute alkali or lime (to precipitate fluoride) solutions to a locally acceptable pH, and then well diluted with water. Depending on usage and locality, may also require precipitation and filtration of heavy metals. Obey all Federal, State, and Local laws.

#### SECTION 7 - HEALTH HAZARD DATA

#### ROUTES OF EXPOSURE

INHALATION: Breathing dust, mist, spray, or fumes may cause irritation to the respiratory system. Gross over exposure may result in further toxic effects, including difficult breathing and coughing.

SKIN CONTACT: This product is destructive to tissues contacted and may produce severe burns.

SKIN ABSORPTION: See SKIN CONTACT above. Also, high concentrations of fluoride in the urine have been reported following skin contact.

This product is destructive to eye tissues on contact. cause severe burns that result in damage to the eyes and even blindness.

This product, if swallowed, will cause severe burns of the mouth and stomach, and may cause complete tissue perforation. Other symptoms include severe shock, convulsions, toxic nephritis, cardiac disturbances, and poisoning due to hypocalcemia (precipitation of body calcium).

EFFECTS OF OVEREXPOSURE

Corrosive to all body tissues with which it comes in contact. Possible fluoride poisoning if swallowed.

CHRONIC: Data not available.

#### EMERGENCY AND FIRST AID PROCEDURES

IMMEDIATELY flush eyes with large amounts of water for at least 15 minutes, holding lids apart to ensure flushing of the entire surface. Washing eyes within 1 minute is essential to achieve maximum effectiveness. Seek medical attention immediately.

Immediately wash contaminated areas with plenty of water for 15 SKIN: minutes. Remove contaminated clothing and footwear, and wash clothing before reuse. Discard any clothing that can not be decontaminated. medical attention immediately.

Get person out of contaminated area to fresh air. breathing has stopped, resuscitate and administer oxygen if readily available. Seek medical attention immediately.

Material Safety Data Sheet for CLEPO 198-JA

# \_\_\_\_\_\_

#### SECTION 7 - HEALTH HAZARD DATA continued

NEVER give anything by mouth to an unconscious person. DO NOT INDUCE VOMITING. Give large quantities of milk, or other calcium-containing (ex. milk of magnesia, 1% lime & water). If vomiting occurs spontaneously, keep airway clear. Seek medical attention immediately.

\_\_\_\_\_\_\_\_

#### SECTION 8 - SPECIAL HANDLING PROCEDURES

Respiration protection is not required under normal use. Use NIOSH/MSHA approved respirator where dust, mist, or spray may be generated above TLV limit.

VENTILATION: Use adequate local exhaust ventilation where dust, mist, or spray may be generated, to maintain level below TLV limit.

Impervious gloves should be worn (ex. rubber or neoprene).

Chemical safety goggles and/or face shield.

Chemically resistant shoes and apron. Safety showers and eyewash facilities should be accessible. All contaminated clothing should be washed with soap and water, and dried before reuse. 

SECTION 9 - SPECIAL PRECAUTIONS

#### HANDLING AND STORAGE PRECAUTIONS:

Avoid contact with strong alkali. Will etch glass over prolonged period of time. Powder dissolves in water to form an acidic solution. Store in a gool dry area, in a closed container. Avoid contact with skin and eyes. ER PRECAUTIONS:

Keep container tightly closed when not in use. Wash thoroughly after handling. Containers, even those that have been emptied, will retain product residue and vapors. Always obey hazard warnings and handle empty containers as if they were full. Containers must not be used for any other purpose.

The information herein is based on technical data that is believed to be reliable. It is intended for use by persons having technical skill and at their own discretion and risk. Since conditions of use are outside our control, we make no warrenties, expressed or implied, and assume no liability in connection with the use of this information. -

Material Safety Data Sheet for CLEPO 198-JA

MATERIAL SAFETY DATA SHEET \_\_\_\_\_\_ SECTION 1 - IDENTIFICATION DATA \_\_\_\_\_ DERICK GUMM CHEMICAL COMPANY, INC. Emergency Telephone Numbers: CHEMTREC 800-424-9300 (24HR) 538 Forest Street, Kearny, NJ 07032 8:00 AM - 5:00 PM EST 201-991-4174 Information CLEP-ETCH-A D.O.T. HAZARD CLASS - Corrosive Solid NOS, UN1760, PGII Effective Date: CHEMICAL FAMILY - (Contains Ammonium Bifluoride) 06-24-94 CHEMICAL NAME/SYNONYMS - CLEP-ETCH-A FORMULA - Mixture
MSDS REVIEWED BY - Keith Frey, V.P. Quality & Regulatory Affairs \_\_\_\_\_\_ SECTION 2 - PHYSICAL DATA \_\_\_\_\_\_ BOILING POINT (Deg F) - NA VAPOR PRESSURE (mm Hg) - NA VAPOR DENSITY (air=1) - NA SOLUBILITY IN WATER - Complete to 32 oz/gal SPECIFIC GRAVITY (H20=1) - NA VOLATILE BY VOLUME - NA EVAPORATION RATE (H2O=1) - NA APPEARANCE & ODOR: White crystalline powder \_\_\_\_\_\_ SECTION 3 - FIRE AND EXPLOSION DATA \_\_\_\_\_\_ FLASH POINT - None EXTINGUISHING MEDIA: SPECIAL FIRE FIGHTING PROCEDURES: Protective clothing and self-contained breathing apparatus should be worn by firefighters in areas where product is stored. Water spray, foam, dry chemical, or carbon dioxide may be used in areas where product is stored. UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE NFPA HAZARD CLASSIFICATION: DEGREE OF HAZARD \_\_\_\_\_\_ Health (Blue) 4=Extreme Flammability (Red) 3=Hiqh Reactivity (Yellow) - 1 2=Moderate

Material Safety Data Sheet for CLEP-ETCH-A

page: 1

1=Slight

0=Insignficant

#### SECTION 4 - REACTIVITY DATA \_\_\_\_\_\_\_ BILITY: Stable CONDITIONS TO AVOID: NA INCOMPATIBILITY: Strong alkalies. HAZARDOUS DECOMPOSITION PRODUCTS: Hydrogen flouride, ammonia HAZARDOUS POLYMERIZATION: Will not occur CONDITIONS TO AVOID: NA SECTION 5 - HAZARDOUS COMPONENTS PAINTS, PRESERVATIVES, AND SOLVENTS: ALLOYS AND METALLIC COATINGS: NACAS NUMBER $\mathtt{TLV}$ PELLD50 왕 HAZARDOUS COMPONENTS 1341-49-7 2.5 2.5 350 100. Ammonium Bifluoride PEL = Mg/M3 - LD50 = oral, rat, Mg/Kg - NF = None Found TLV = Mq/M3 -- The indicated material, if any, is listed as a carginogen or potential carginogen by one or more of the following: National Toxicology Program, I.A.R.C. Monographs, OSHA. \*\* - The indicated material, if any, does not have an established TLV, but does appear on one or more of the following states hazardous substance lists: Connecticut, Illinois, Michigan, Maine, Massachusetts, Minnesota, New Hampshire, New Jersey, New York, Oregon, Rhode Island, West Virginia, and Wisconsin, and is present in this product in amounts greater than 1%. & - The indicated material, if any, is subject to the reporting requirements of SARA Title III, Section 313

\_\_\_\_\_\_ SECTION 6 - SPILL, LEAK, AND DISPOSAL PROCEDURES

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#### SPILL & LEAK PROCEDURES:

Spilled material may be shoveled up, and stored in closed containers for possible normal use or proper disposal. Flush area with plenty of water. Mild alkali or lime solutions may be used to neutralize final traces immediately after flushing.

SECTION 6 - SPILL, LEAK, AND DISPOSAL PROCEDURES continued

\_\_\_\_\_\_

#### TE DISPOSAL METHODS:

Acid waste solutions should not be discharged into sewers or streams. should first be neutralized with dilute alkali or lime (to precipitate fluoride) solutions to a locally acceptable pH, and then well diluted with water. Depending on usage and locality, may also require precipitation and filtration of heavy metals. Obey all Federal, State, and Local laws.

#### SECTION 7 - HEALTH HAZARD DATA

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#### ROUTES OF EXPOSURE

Breathing dust, mist, spray, or fumes may cause irritation to INHALATION: the respiratory system. Gross over exposure may result in further toxic effects, including difficult breathing and coughing.

SKIN CONTACT: This product is destructive to tissues contacted and may produce severe burns.

SKIN ABSORPTION: See SKIN CONTACT above. Also, high concentrations of fluoride in the urine have been reported following skin contact.

This product is destructive to eye tissues on contact. May cause severe burns that result in damage to the eyes and even blindness.

INGESTION: This product, if swallowed, will cause severe burns of the mouth and stomach, and may cause complete tissue perforation. Other symptoms include severe shock, convulsions, toxic nephritis, cardiac disturbances, and poisoning due to hypocalcemia (precipitation of body calcium).

EFFECTS OF OVEREXPOSURE

Corrosive to all body tissues with which it comes in contact. Possible fluoride poisoning if swallowed.

CHRONIC: Data not available.

#### EMERGENCY AND FIRST AID PROCEDURES

EYES: IMMEDIATELY flush eyes with large amounts of water for at least 15 minutes, holding lids apart to ensure flushing of the entire surface. Washing eyes within 1 minute is essential to achieve maximum effectiveness. Seek medical attention immediately.

Immediately wash contaminated areas with plenty of water for 15 SKIN: Remove contaminated clothing and footwear, and wash clothing before reuse. Discard any clothing that can not be decontaminated. Seek medical attention immediately.

Get person out of contaminated area to fresh air. breathing has stopped, resuscitate and administer oxygen if readily available. Seek medical attention immediately.

Material Safety Data Sheet for CLEP-ETCH-A

## SECTION 7 - HEALTH HAZARD DATA continued

ESTION: NEVER give anything by mouth to an unconscious person. DO NOT INDUCE VOMITING. Give large quantities of milk, or other calcium-containing (ex. milk of magnesia, 1% lime & water). If vomiting occurs spontaneously, keep airway clear. Seek medical attention immediately.

#### SECTION 8 - SPECIAL HANDLING PROCEDURES

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RESPIRATORY: Respiration protection is not required under normal use. Use NIOSH/MSHA approved respirator where dust, mist, or spray may be generated above TLV limit.

**VENTILATION:** Use adequate local exhaust ventilation where dust, mist, or spray may be generated, to maintain level below TLV limit.

GLOVES: Impervious gloves should be worn (ex. rubber or neoprene).

EYES: Chemical safety goggles and/or face shield.

OTHER: Chemically resistant shoes and apron. Safety showers and eyewash facilities should be accessible. All contaminated clothing should be washed with soap and water, and dried before reuse.

#### SECTION 9 - SPECIAL PRECAUTIONS

#### HANDLING AND STORAGE PRECAUTIONS:

Avoid contact with strong alkali. Will etch glass over prolonged period of time. Powder dissolves in water to form an acidic solution. Store in a cool dry area, in a closed container. Avoid contact with skin and eyes.

#### ER PRECAUTIONS:

Keep container tightly closed when not in use. Wash thoroughly after handling. Containers, even those that have been emptied, will retain product residue and vapors. Always obey hazard warnings and handle empty containers as if they were full. Containers must not be used for any other purpose.

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Material Safety Data Sheet for CLEP-ETCH-A



## Diversified Chemical Sales, Inc.

Diversified Chemical Specialties & Equipment For Industries

847 S. EAST STREET . ANAHEIM, CALIFORNIA 92805-5395 (714) 535-0646 • (714) 535-4606 • (800) 243-5358 • FAX (714) 533-9856

CAUSTIC SODA

EMERGENCY NUMBER:

CHEMTREC (800) 424-9300

#### SECTION 1 - PRODUCT IDENTIFICATION

#### **Product Name and Synonyms**

Caustic Soda; Sodium Hydroxide, 50% Liquid; Liquid Caustic; Soda Lye; Lye Solution.

CAS Name and Number: Mixture (See Section 10).

Chemical Family: Base.

Chemical Formula: NaOH.

#### SECTION 2 - HAZARDOUS INGREDIENTS

COMPONENT

% WEIGHT

**ACGIH TLV®** 

ACGIH STEL

OSHA PEL

Sodium Hydroxide

48.5 - 50

2 mg/m<sup>3</sup>

None listed

2 mg/m<sup>3</sup>

#### SECTION 3 - PHYSICAL PROPERTIES

Appearance and Odor: A clear liquid, no odor.

Vapor Density (Air = 1): Not available.

Molecular Weight; 40.

Percent Volatile (By Weight): Approx. 50% water.

Boiling Point (Degrees Fahrenheit): 284. \*

pH: >12.5.

Melting Point (Degrees Fahrenheit): ~41.

Solubility in Water: Complete.

Vapor Pressure (MM of Mercury): 13 @ 140°F.

Evaporation Rate (Butyl Acetate = 1): Not available.

Specific Gravity (Water = 1): 1.53.

#### SECTION 4 - FIRE AND EXPLOSION DATA

Flash Point: None. Not combustible.

Fire Extinguishing Media: Use water spray to cool containers involved to help prevent rupture.

Flammable Limits (Percent by Volume):

Lower Not applicable Upper Not applicable

Special Firefighting Procedures & Equipment: Self-contained breathing apparatus with a full facepiece operated in pressure-demand or other positive pressure mode.

Unusual Fire and Explosion Hazards: NaOH will react with metals such as aluminum, tin, and zinc to generate flammable and explosive hydrogen gas.

Hazardous Combustion Products: None known.

#### SECTION 5 - REACTIVITY DATA

Stability: Unstable \_\_\_ Stable X

Conditions to Avoid: Stable under normal storage conditions.

<u>Incompatibility (Materials to Avoid)</u>: Acids; many organic chemicals, especially nitrocarbons and halocarbons; leather and wool; aluminum, tin, zinc, and alloys which contain these metals.

Hazardous Decomposition Products: Flammable hydrogen gas may be formed on contact with some metals.

Hazardous Polymerization: Will Occur \_\_\_ Will Not Occur X

Conditions to Avoid: None known.

#### SECTION 6: - HEALTH HAZARD INFORMATION

Exposure from Routine Use: Highly corrosive. Will cause severe irritation of skin, eyes, or mucous membranes if mist is inhaled.

<u>Effects of Overexposure</u>: Sodium hydroxide is a strong alkali and is destructive of ail human tissue it contacts, giving severe burns. Eye contact will produce severe or permanent injury. Inhalation of mist or spray can injure the entire respiratory tract.

Probable Routes of Exposure: Ingestion, inhalation, skin.

#### **Emergency First Aid Procedures**

Eye Contact: Wash eyes immediately with plenty of running water for 15 minutes, including under eyelids.

Speed in beginning the eyewash is essential if permanent injury is to be avoided. Get

medical attention immediately.

Skin Contact: Flush contaminated skin with water for 15 minutes. Remove contaminated clothing under the

shower. Prolong washing in serious cases until doctor arrives. Get medical care for evidence

of burning.

Inhalation: Remove from exposure to mist. Provide artificial respiration if needed. Keep the person

warm and at rest. Obtain prompt medical attention.

<u>Ingestion</u>: <u>Get medical attention immediately.</u> Immediately dilute by drinking large quantities of water.

Do not induce vomiting.

#### SECTION 7 - TOXICITY DATA

Oral: LDLo (rabbit) - 500 mg/kg.

Dermal: Severe skin irritant.

Inhalation: Not found.

Carcinogenicity: Not listed as a carcinogen by IARC, NTP, OSHA or ACGIH.

Other Pertinent Data: Severe eye irritant.

#### SECTION 8 - SPECIAL PROTECTION INFORMATION

#### Personal Protective Equipment

Protective Gloves: Rubber.

Eye Protection: Dustproof and splashproof safety goggles.

Respiratory Protection (Specify Type): Required above exposures of 2 mg/m³. Supplied-air respirator with a full facepiece, helmet, or hood; self-contained breathing apparatus with a full facepiece.

Other Protective Equipment: Apron or protective clothing, and rubber boots (tops covered by apron or clothing to prevent entrance of caustic).

#### <u>Ventilation</u>

Local Exhaust: Provide especially where possibility of mist formation exists.

Mechanical (General): Fans.

Special: None.

#### SECTION 9 - SPILL, LEAK, AND DISPOSAL PROCEDURES

#### Steps to be Taken in Case Material is Released or Spilled

Pick up spill with vacuum equipment (alkali-resistant) for disposal, or flush to holding area with water. Neutralize residues with dilute acid and rinse with water.

A spill or release of this material may trigger the emergency release reporting requirements under SARA, Title III (40 CFR Part 355) and/or CERCLA (40 CFR, Part 300). State or local reporting requirements may differ from federal requirements. Consult counsel for further guidance on your responsibilities under these laws.

<u>Waste Disposal Methods</u>: Waste caustic must <u>never</u> be discharged directly to sewers or surface waters. First convert to neutral salts and dilute well with water. Inform legal authorities of uncontrolled spills.

<u>Clean Water Act Requirements</u>: NaOH is listed under Section 311 as requiring the submission of a National Pollutant Discharge Elimination System (NPDES) permit application to EPA. Once a permit is issued, NaOH is exempted from the reporting requirements of Section 311 relating to spills.

Resource Conversation and Recovery Act (RCRA) Requirements: Defined under 40 CFR 261.22 as exhibiting the characteristic of corrosivity.

#### SECTION 10 - REGULATORY INFORMATION

<u>FDA</u>: Lists NaOH as a "Generally Recognized As Safe" (GRAS) substance. Regulated for use as a defoaming agent under 21 CFR 176.210.

USDA: USDA self-certification (9 CFR 317.20); is FDA approved.

CPSC: Label Required: POISON: MAY BE FATAL OR CAUSE PERMANENT DAMAGE.

CAUSES SEVERE BURNS. CONTAINS 50% SODIUM HYDROXIDE. (See Section 9010.125 Hazardous Substances Labeling Guides.)

NSF: Maximum allowable usage for water treatment is 100 mg/L.

TSCA: Mixture: CAS# 1310-73-2, Sodium Hydroxide, mixture with CAS# 7732-18-5, Water.

Caustic Soda

DOT:

Regulated.

Proper Shipping Hazard Class: 8.

Proper Shipping Name: Sodium Hydroxide, Solution.

, 001011011. <u>1401</u>

Identification No.: UN 1824.

Other Pertinent Information:

Packing Group II

Label Required: Corrosive.

RQ is 2000 lbs.

EPA:

Superfund Amendments and Reauthorization Act (SARA) Title III: Section 313, Supplier Notification.

Not applicable.

#### SECTION: 116- SPECIAL PREGAUTIONS AND COMMENTS:

#### Precautions to be Taken in Handling and Storing

Do not permit workers to handle NaOH without proper training and proper equipment. Store in well-sealed containers which are protected from physical damage. Avoid handling conditions which can lead to spills or mist formation. Drains must have retention basins for pH adjustment and neutralization of spilled materials and flushings before discharge. Have abundant running water available where material is stored, unloaded, or handled.

#### Other Precautions

None known.

Registrations / Certifications: None.

Effective Date: 3/10/95

Supersedes: 2/1/95.

MATERIAL SAFETY DATA SHEET \_\_\_\_\_\_\_ SECTION 1 - IDENTIFICATION DATA \_\_\_\_\_\_\_\_ DERICK GUMM CHEMICAL COMPANY, INC. Emergency Telephone Numbers: 538 Forest Street, Kearny, NJ 07032 CHEMTREC 800-424-9300 (24HR) 8:00 AM - 5:00 PM EST 201-991-4174 Information CLEPO 500-DX D.O.T. HAZARD CLASS - Non-DOT Regulated CHEMICAL FAMILY - Peroxygen Salt Effective Date: 07-29-94 CHEMICAL NAME/SYNONYMS - CLEPO 500-DX - Mixture FORMULA MSDS REVIEWED BY - Keith Frey, V.P. Quality & Regulatory Affairs \_\_\_\_\_\_ SECTION 2 - PHYSICAL DATA \_========== - NA BOILING POINT (Deg F) VAPOR PRESSURE (mm Hg) - NA VAPOR DENSITY (air=1) - NA SOLUBILITY IN WATER - Complete to 32 oz/gal SPECIFIC GRAVITY (H20=1) - NA VOLATILE BY VOLUME - NA EVAPORATION RATE (H2O=1) - NA APPEARANCE & ODOR: White granules SECTION 3 - FIRE AND EXPLOSION DATA \_\_\_\_\_\_ FLASH POINT - None EXTINGUISHING MEDIA: This product is not combustible. SPECIAL FIRE FIGHTING PROCEDURES: Protective clothing and self-contained breathing apparatus should be worn by firefighters in areas where product is stored. Water spray, foam, dry chemical, or carbon dioxide may be used in areas where product is stored. UNUSUAL FIRE AND EXPLOSION HAZARDS: Storage of large masses can trap heat and lead to ignition of paper bags. Grinding or intensive mixing may cause ignition of oxidizabe meterial. NFPA HAZARD CLASSIFICATION: DEGREE OF HAZARD (Blue) 4=Extreme Health

erial Safety Data Sheet for CLEPO 500-DX

Flammability (Red)

Reactivity (Yellow) - 1

page: 1

3=High

2=Moderate 1=Slight

0=Insignficant

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#### SECTION 4 - REACTIVITY DATA

\_\_\_\_\_\_\_

BILITY: Stable

CONDITIONS TO AVOID: NA

#### TNCOMPATIBILITY:

Mixture with halide compounds or active halogens may release the halogen if moisture is present.

#### HAZARDOUS DECOMPOSITION PRODUCTS:

Releases oxygen gas.

#### HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: NA

#### SECTION 5 - HAZARDOUS COMPONENTS

#### PAINTS, PRESERVATIVES, AND SOLVENTS:

NT 7N

ALLOYS AND METALLIC COATINGS:

NA

HAZARDOUS COMPONENTS	CAS NUMBER	$\mathtt{TLV}$	$\mathtt{PEL}$	LD50	%
Potassium Peroxymonosulfate	10058-23-8	NF	NF	2000	43.0
Potassium Bisulfate	7646-93-7	NF	$_{ m NF}$	NF	23.0
$T^{TT} = Mq/M3 - PEL = Mq/M3 -$	LD50 = oral, rat,	Mq/Kq	- NF	= None	Found

- # The indicated material, if any, is listed as a carginogen or potential carginogen by one or more of the following: National Toxicology Program, I.A.R.C. Monographs, OSHA.
- \*\* The indicated material, if any, does not have an established TLV, but does appear on one or more of the following states hazardous substance lists: Connecticut, Illinois, Michigan, Maine, Massachusetts, Minnesota, New Hampshire, New Jersey, New York, Oregon, Rhode Island, West Virginia, and Wisconsin, and is present in this product in amounts greater than 1%.
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#### SECTION 6 - SPILL, LEAK, AND DISPOSAL PROCEDURES continued

#### V TE DISPOSAL METHODS:

Acid waste solutions should not be discharged into sewers or streams. Acid should first be neutralized with dilute alkali or lime solutions to a locally acceptable pH, and then well diluted with water. Depending on usage and locality, may also require precipitation and filtration of heavy metals. Obey all Federal, State, and Local laws.

#### SECTION 7 - HEALTH HAZARD DATA

#### ROUTES OF EXPOSURE

INHALATION: Breathing dust, mist, spray, or fumes may cause irritation to the respiratory system. Gross over exposure may result in further toxic effects, including difficult breathing and coughing.

SKIN CONTACT: This product may cause irritation or burns to the skin.

SKIN ABSORPTION: See SKIN CONTACT above.

EYE CONTACT: This product is destructive to eye tissues. It may cause severe burns that result in damage to the eyes and even blindness.

INGESTION: This product, if swallowed, may irritate or burn the mouth and stomach, and may cause complete tissue perforation.

#### EFFECTS OF OVEREXPOSURE

ACUTE: May irritate or burn all body tissues with which it comes in contact.

CTRONIC: Data not available.

#### EMERGENCY AND FIRST AID PROCEDURES

EYES: IMMEDIATELY flush eyes with large amounts of water for at least 15 minutes, holding lids apart to ensure flushing of the entire surface. Washing eyes within 1 minute is essential to achieve maximum effectiveness. Seek medical attention immediately.

SKIN: Immediately wash contaminated areas with plenty of water for 15 minutes. Remove contaminated clothing and footwear, and wash clothing before reuse. Discard any clothing that can not be decontaminated. Seek medical attention immediately.

INHALATION: Get person to fresh air. If breathing has stopped, or irritation persists, seek medical attention immediately.

INGESTION: NEVER give anything by mouth to an unconscious person. DO NOT INDUCE VOMITING. Give large quantities of milk, milk of magnesia, or 1% lime and water solution. If vomiting occurs spontaneously, keep airways clear. Seek medical attention immediately.

Material Safety Data Sheet for CLEPO 500-DX page: 3

#### SECTION 8 - SPECIAL HANDLING PROCEDURES

I PIRATORY: Respiration protection is not required under normal use. Use NIOSH/MSHA approved respirator where dust, mist, or spray may be generated above TLV limit.

VENTILATION: Use adequate local exhaust ventilation where dust, mist, or spray may be generated, to maintain level below TLV limit.

SLOVES: Impervious gloves should be worn (ex. rubber or neoprene).

EYES: Chemical safety goggles and/or face shield.

OTHER: Chemical resistant shoes and apron. Safety showers and eyewash facilities should be accessible. All contaminated clothing should be washed with soap and water, and dried before reuse.

#### SECTION 9 - SPECIAL PRECAUTIONS

\_\_\_\_\_

#### HANDLING AND STORAGE PRECAUTIONS:

Avoid contact with strong alkali. Powder dissolves in water to form an acidic solution. Store in a cool dry area, in a closed container. Avoid contact with skin and eyes.

#### OTHER PRECAUTIONS:

Keep container tightly closed when not in use. Wash thoroughly after handling. Containers, even those that have been emptied, will retain product residue and vapors. Always obey hazard warnings and handle empty containers as if they were full. Containers must not be used for any other purpose.

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Material Safety Data Sheet for CLEPO 500-DX



FREDERICK GUMM CHEMICAL COMPANY, INC. 538 Forest Street • Kearny, NJ 07032 800-223-GUMM • In NJ 201-991-4171 FAX NO. 201-991-5855

Over 1200 metal finishing chemicals for surface preparation, plating, aluminum finishing, post finishing, and mass finishing.



### CLEPO RAKSTRIP 569-NA/569-NB

Rack Stripper Additive for Nitric Acid

CLEPO RAKSTRIP 569-N is a two part liquid additive for use with nitric acid to increase the rate of attack on nickel, and other metals. At the same time, it materially reduces or eliminates the evolution of toxic nitrogen oxide fumes. Stainless steel rack tips can be stripped of nickel at rates up to 50 times faster than with nitric acid alone. Plated aluminum can also be stripped effectively with nitric acid/569-N combination with drastic reduction of nitrogen oxide fuming.

#### OPERATING CONDITIONS

#### CONCENTRATION/TEMPERATURE:

- Determine the usable tank volume.
- 2. Add 30 gallons of water for each 100 gallons of final volume.
- 3. Add 60 gallons of 42 deg Be' nitric acid for each 100 gallons of final volume. Cool solution to 75-90 deg F (24 to 32 deg C).
- 4. With constant stirring, slowly add 5 gallons of each component of CLEPO RAKSTRIP 569-N for each 100 gallons (100 lit) of final volume. Solution is now ready to use.

If an excess of CLEPO RAKSTRIP 569-N is added, it will result in a floating white precipitate. This precipitate is not harmful and will dissolve as the solution is used.

#### EQUIPMENT SELECTION

Solution of nitric acid and CLEPO RAKSTRIP 569-N may be contained in stainless steel, plastic lined or ceramic equipment. Although fumes are greatly diminished or eliminated, ventilation must be provided as a safety factor. The use of CLEPO RAKSTRIP 569-N, however, will simplify compliance with EPA regulations.

CLEPO RAKSTRIP 569-NA/NB Rack Stripper Additive for Nitric Acid FREDERICK GUMM CHEMICAL CO.

#### MATERIAL SAFETY DATA SHEET

\_\_\_\_\_\_

#### SECTION 1 - IDENTIFICATION DATA \_\_\_\_\_\_\_

I DERICK GUMM CHEMICAL COMPANY, INC.

558 Forest Street, Kearny, NJ 07032

Emergency Telephone Numbers: CHEMTREC 800-424-9300 (24HR)

8:00 AM - 5:00 PM EST

CLEPO 569-NA 201-991-4174 Information

D.O.T. HAZARD CLASS - Corrosive Liquid NOS, UN1760, PGII

Effective Date:

CHEMICAL FAMILY - (Contains Ferric Sulfate) 10-24-94

CHEMICAL NAME/SYNONYMS - CLEPO 569-NA

FORMULA - Mixture
MSDS REVIEWED BY - Keith Frey, V.P. Quality & Regulatory Affairs

#### SECTION 2 - PHYSICAL DATA

\_\_\_\_\_\_\_

BOILING POINT (Deg F) - >212 DegF VAPOR PRESSURE (mm Hg) - NA VAPOR DENSITY (air=1) - NA SOLUBILITY IN WATER - Complete

SPECIFIC GRAVITY (H20=1) - 1.23 VOLATILE BY VOLUME - NA EVAPORATION RATE (H2O=1) - >1

APPEARANCE & ODOR:

Dark Brown Liquid

#### SECTION 3 - FIRE AND EXPLOSION DATA

FLASH POINT - None

#### EXTINGUISHING MEDIA:

This product is not combustible.

#### SPECIAL FIRE FIGHTING PROCEDURES:

Protective clothing and self-contained breathing apparatus should be worn by firefighters in areas where product is stored. Water spray, foam, dry chemical, or carbon dioxide may be used in areas where product is stored.

#### UNUSUAL FIRE AND EXPLOSION HAZARDS:

At temp >570 F, hazardous fumes of sulfur dioxide & trioxide are evolved. They must be eliminated by forced drafted ventilation.

#### NFPA HAZARD CLASSIFICATION:

#### DEGREE OF HAZARD \_\_\_\_\_\_

Health (Blue) - 3 4=Extreme Flammability (Red) - 0 3=Hiqh Reactivity (Yellow) - 1 2=Moderate 1=Slight

0=Insignficant

Macerial Safety Data Sheet for CLEPO 569-NA

## section 4 - reactivity data

\_\_\_\_\_\_

{ BILITY: Stable

CONDITIONS TO AVOID: NA

#### INCOMPATIBILITY:

Should not be mixed with strong alkalies.

#### HAZARDOUS DECOMPOSITION PRODUCTS:

None expected, except under extreme heat as mentioned above under UNUSUAL FIRE AND EXPLOSION HAZARDS.

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: NA

SECTION 5 - HAZARDOUS COMPONENTS

PAINTS, PRESERVATIVES, AND SOLVENTS:

 $\Delta M$ 

ALLOYS AND METALLIC COATINGS:

NA

HAZARDOUS COMPONENTS	CAS NUMBER	$\mathtt{TLV}$	$\mathtt{PEL}$	LD50	%
&-Copper Sulfate (Copper as Cu)	7758-98-7	1	1	300	6.97
Ferric Sulfate	10028-22-5	1	NF	NF	11.3
$T^{TV} = Mq/M3 - PEL = Mq/M3 -$	LD50 = oral, rat,	Mq/Kq	- NF	= None	Found

- # The indicated material, if any, is listed as a carginogen or potential carginogen by one or more of the following: National Toxicology Program, I.A.R.C. Monographs, OSHA.
- \*\* The indicated material, if any, does not have an established TLV, but does appear on one or more of the following states hazardous substance lists: Connecticut, Illinois, Michigan, Maine, Massachusetts, Minnesota, New Hampshire, New Jersey, New York, Oregon, Rhode Island, West Virginia, and Wisconsin, and is present in this product in amounts greater than 1%.
- & The indicated material, if any, is subject to the reporting requirements of SARA Title III, Section 313

SECTION 6 - SPILL, LEAK, AND DISPOSAL PROCEDURES

#### SPILL & LEAK PROCEDURES:

Place leaking container in well ventilated area. Dilute small spills cautiously with water. Neutralize residue with alkali such as soda ash or lime. Adequate ventilation is required for soda ash due to release of CO2 gas. Avoid run-off into storm sewers and ditches which lead to natural waterways.

The state of the control of the cont

SECTION 6 - SPILL, LEAK, AND DISPOSAL PROCEDURES continued 

#### TE DISPOSAL METHODS:

Waste solution should not be discharged into sewers or streams. should first be neutralized to a locally acceptable pH, and then well diluted with water. Depending on usage and locality, may also require precipitation and filtration of heavy metals. Otherwise, contact local waste disposal contractor.

#### SECTION 7 - HEALTH HAZARD DATA

#### ROUTES OF EXPOSURE

Inhaling mist or spray is irritating to the upper respiratory INHALATION: tract and depending on the severity of exposure, may cause tissue damage. This product can cause irritation or severe burns depending

on the severity of exposure.

See SKIN CONTACT above. SKIN ABSORPTION:

Liquid contact may cause irritation, corneal burns, and EYE CONTACT: conjunctivitis. Blindness may result, or severe or permanent injury. Mist contact may irritate or burn.

Can cause irritation and corrosive burns of mouth, throat, INGESTION: and stomach. Can be fatal if swallowed.

#### EFFECTS OF OVEREXPOSURE

Irritating or corrosive to all body tissues with which it comes ACUTE: in contact.

The chronic local effect may consist of multiple areas of superficial destruction of the skin or of primary irritant dermatitis. Similarly, inhalation of dust, spray, or mist may result in varying degrees of irritation or damage to the respiratory tract tissue.

#### EMERGENCY AND FIRST AID PROCEDURES

IMMEDIATELY flush eyes with large amounts of water for at least 15 EYES: minutes, holding lids apart to ensure flushing of the entire surface. Washing eyes within 1 minute is essential to achieve maximum effectiveness. Seek medical attention immediately.

Immediately wash contaminated areas with plenty of water for 15 SKIN: minutes. Remove contaminated clothing and footwear, and wash clothing before reuse. Discard any clothing that cannot be decontaminated. medical attention immediately.

Get person out of contaminated area to fresh air. breathing has stopped, resuscitate and administer oxygen if readily available. Seek medical attention immediately.

page: 3

Material Safety Data Sheet for CLEPO 569-NA

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swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. If available, give several glasses of milk. If vomiting occurs spontaneously, keep airway clear. Seek medical attention immediately.

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#### SECTION 8 - SPECIAL HANDLING PROCEDURES

Respiration protection is not required under normal use. RESPIRATORY: Use NIOSH/MSHA approved respirator where dust, mist, or spray may be

generated above TLV limit.

Use adequate local exhaust ventilation where dust, mist, or VENTILATION: spray may be generated, to maintain level below TLV limit.

Impervious gloves should be worn (ex. rubber or neoprene). GLOVES:

Chemical safety goggles and/or face shield. EYES:

Chemically resistant footwear and apron. Safety showers and OTHER: eyewash facilities should be accessible. All contaminated clothing should be washed with soap and water, and dried before reuse.

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#### SECTION 9 - SPECIAL PRECAUTIONS

#### HANDLING AND STORAGE PRECAUTIONS:

Avoid contact with skin and eyes. Wash thoroughly after handling material. Store in a cool, dry area, in a closed container when not being used. OTTER PRECAUTIONS:

Keep container tightly closed when not in use. Wash thoroughly after handling. Containers, even those that have been emptied, will retain product residue and vapors. Always obey hazard warnings and handle empty containers as if they were full. Containers must not be used for any other purpose.

The information herein is based on technical data that is believed to be reliable. It is intended for use by persons having technical skill and at their own discretion and risk. Since conditions of use are outside our control, we make no warrenties, expressed or implied, and assume no liability in connection with the use of this information.

Material Safety Data Sheet for CLEPO 569-NA

#### MATERIAL SAFETY DATA SHEET

#### SECTION 1 - IDENTIFICATION DATA

I DERICK GUMM CHEMICAL COMPANY, INC.

538 Forest Street, Kearny, NJ 07032

CLEPO 569-NB

Emergency Telephone Numbers:

CHEMTREC 800-424-9300 (24HR) 8:00 AM - 5:00 PM EST

Effective Date:

201-991-4174 Information

D.O.T. HAZARD CLASS - Non-DOT Regulated CHEMICAL FAMILY - Aqueous Mixture

07 - 19 - 94

CHEMICAL NAME/SYNONYMS - CLEPO 569-NB FORMULA

- Mixture

MSDS REVIEWED BY - Keith Frey, V.P. Quality & Regulatory Affairs

\_\_\_\_\_\_\_

#### SECTION 2 - PHYSICAL DATA

BOILING POINT (Deg F) - Over 212 deg F VAPOR PRESSURE (mm Hg) - NA

VAPOR DENSITY (air=1) - NA
SOLUBILITY IN WATER - Complete
SPECIFIC GRAVITY (H20=1) - 1.075 VOLATILE BY VOLUME - NA EVAPORATION RATE (H2O=1) - <1

APPEARANCE & ODOR:

Clear liquid.

SECTION 3 - FIRE AND EXPLOSION DATA

FLASH POINT - None

#### EXTINGUISHING MEDIA:

This product is not combustible. See SPECIAL FIRE FIGHTING PROCEDURES.

#### SPECIAL FIRE FIGHTING PROCEDURES:

Protective clothing and self-contained breathing apparatus should be worn by firefighters in areas where product is stored. Water spray, foam, dry chemical, or carbon dioxide may be used in areas where product is stored.

#### UNUSUAL FIRE AND EXPLOSION HAZARDS:

None

Health

#### NFPA HAZARD CLASSIFICATION:

Flammability (Red) - 0

Reactivity (Yellow) - 0

\_\_\_\_\_

4=Extreme 3=High 2=Moderate

1=Slight

0=Insignficant

DEGREE OF HAZARD

erial Safety Data Sheet for CLEPO 569-NB

(Blue) - 1

SECTION 4 - REACTIVITY DATA \_\_\_\_\_\_ BILITY: Stable CONDITIONS TO AVOID: NA INCOMPATIBILITY: Strong acids. HAZARDOUS DECOMPOSITION PRODUCTS: None expected. HAZARDOUS POLYMERIZATION: Will not occur CONDITIONS TO AVOID: NA SECTION 5 - HAZARDOUS COMPONENTS \_\_\_\_\_\_ PAINTS, PRESERVATIVES, AND SOLVENTS: ALLOYS AND METALLIC COATINGS: CAS NUMBER  $\mathtt{TLV}$ PEL HAZARDOUS COMPONENTS LD50 NONE PEL = Mg/M3 - LD50 = oral, rat, Mg/Kg - NF = None Found TLV = Mq/M3- The indicated material, if any, is listed as a carginogen or potential carginogen by one or more of the following: National Toxicology Program, I.A.R.C. Monographs, OSHA. \*\* - The indicated material, if any, does not have an estabished TLV, but does appear on one or more of the following states hazardous substance lists: Connecticut, Illinois, Michigan, Maine, Massachusetts, Minnesota, New Hampshire, New Jersey, New York, Oregon, Rhode Island, West Virginia, and Wisconsin, and is present in this product in amounts greater than 1%. & - The indicated material, if any, is subject to the reporting requirements of SARA Title III, Section 313 \_\_\_\_\_\_\_ SECTION 6 - SPILL, LEAK, AND DISPOSAL PROCEDURES \_\_\_\_\_\_\_ SPILL & LEAK PROCEDURES: Liquids should be contained and adsorbed with a suitable adsorbent, or flushed to the waste treatment area. Flush area with plenty of water. Avoid all personal contact. WASTE DISPOSAL METHODS: Waste solution should not be discharged into sewers or streams. Solution should first be neutralized to a locally acceptable pH, and then well diluted with water. Depending on usage and locality, may also require

precipitation and filtration of heavy metals. Otherwise, contact local

page: 2

erial Safety Data Sheet for CLEPO 569-NB

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	SECTION	6 -	SPILL,	LEAK,	AND	DISPOSAL	PROCEDURES	continued
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#### ROUTES OF EXPOSURE

INHALATION: Inhaling mist or spray is irritating to the upper respiratory
 tract and depending on the severity of exposure, may cause tissue damage.
SKIN CONTACT: This product is irritating to tissues contacted and may
 cause skin damage.

SKIN ABSORPTION: See SKIN CONTACT above.

EYE CONTACT: This product is irritating to eye tissues on contact. May cause permanent eye damage.

INGESTION: This product, if swallowed, will be irritating to the mouth,
 throat, and stomach.

#### EFFECTS OF OVEREXPOSURE

ACUTE: Irritating to all body tissues with which it comes in contact.

CHRONIC: Repeated or prolonged exposure may cause dermatitis.

EMERGENCY AND FIRST AID PROCEDURES

EYES: IMMEDIATELY flush eyes with large amounts of water for at least 15 minutes, holding lids apart to ensure flushing of the entire surface. Washing eyes within 1 minute is essential to achieve maximum effectiveness. Scak medical attention immediately.

N: Immediately wash contaminated areas with plenty of water for 15 minutes. Remove contaminated clothing and footwear, and wash clothing before reuse. Discard any clothing that can not be decontaminated. Seek medical attention immediately.

INHALATION: Get person out of contaminated area to fresh air. If breathing has stopped, resuscitate and administer oxygen if readily available. Seek medical attention immediately.

INGESTION: NEVER give anything by mouth to an unconscious person. If swallowed, do not induce vomiting. Give large quantities of water. If vomiting occurs spontaneously, keep airway clear. Seek medical attention immediately.

Material Safety Data Sheet for CLEPO 569-NB page: 3

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#### SECTION 8 - SPECIAL HANDLING PROCEDURES

FIRATORY: Respiration protection is not required under normal use.

Use NIOSH/MSHA approved respirator where mist or spray may be generated above the TLV limit.

**VENTILATION:** Use adequate local exhaust ventilation where mist or spray may be generated, to maintain level below the TLV limit.

GLOVES: Impervious gloves should be worn (ex. rubber or neoprene).

EYES: Chemical safety goggles and/or face shield.

OTHER: Chemically resistant shoes and apron. Safety showers and eyewash facilities should be accessible. All contaminated clothing should be washed with soap and water, and dried before reuse.

#### SECTION 9 - SPECIAL PRECAUTIONS

#### HANDLING AND STORAGE PRECAUTIONS:

Avoid contact with skin and eyes. Wash thoroughly after handling material. Store in a cool, dry area, in a closed container when not being used. DO NOT STORE with strong acids.

#### OTHER PRECAUTIONS:

Keep container tightly closed when not in use. Wash thoroughly after handling. Containers, even those that have been emptied, will retain product residue and vapors. Always obey hazard warnings and handle empty containers as if they were full. Containers must not be used for any other purpose.

The information herein is based on technica
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Material Safety Data Sheet for CLEPO 569-NB

#### MATERIAL SAFETY DATA SHEET

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#### SECTION 1 - IDENTIFICATION DATA \_\_\_\_\_\_

Forest Street, Kearny, NJ 07032

Emergency Telephone Numbers: CHEMTREC 800-424-9300 (24HR)

8:00 AM - 5:00 PM EST

201-991-4174 Information

CLEPO BONDAL

D.O.T. HAZARD CLASS - Corrosive Liquid NOS, UN1760, PGII

Effective Date:

CHEMICAL FAMILY - (Contains Sodium Hydroxide)

02-24-96

CHEMICAL NAME/SYNONYMS - CLEPO BONDAL

- Mixture

MSDS REVIEWED BY - Keith Frey, V.P. Quality & Regulatory Affairs

\_\_\_\_\_\_ SECTION 2 - PHYSICAL DATA

\_\_\_\_\_\_

BOILING POINT (Deg F) - 212 deg F VAPOR PRESSURE (mm Hg) - NA VAPOR DENSITY (air=1) - NA SOLUBILITY IN WATER - Complete

SPECIFIC GRAVITY (H20=1) - APPRX. 1.16

VOLATILE BY VOLUME - NA EVAPORATION RATE (H2O=1) - >1

APPEARANCE & ODOR:

Green viscous liquid

SECTION 3 - FIRE AND EXPLOSION DATA \_\_\_\_\_\_\_

FLASH POINT - None

#### EXTINGUISHING MEDIA:

Do not use CO2 which may react to form hydrogen cyanide gas.

#### SPECIAL FIRE FIGHTING PROCEDURES:

Protective clothing and self-contained breathing apparatus should be worn by firefighters in areas where this product is stored. Avoid flushing to sewers or streams, toxic to aquatic life.

#### UNUSUAL FIRE AND EXPLOSION HAZARDS:

Irratating or poisonous SOx gases or zinc, copper, or nickel fumes may be released at very high temperatures (750 deg C).

#### NFPA HAZARD CLASSIFICATION:

#### DEGREE OF HAZARD \_\_\_\_\_\_

(Blue) - 3 Health 4=Extreme Flammability (Red) - 0 3=High Reactivity (Yellow) - 1 2=Moderate 1=Slight

\_\_\_\_\_\_\_

0=Insignficant

Material Safety Data Sheet for CLEPO BONDAL

#### SECTION 4 - REACTIVITY DATA \_\_\_\_\_\_

BILITY: Stable

CONDITIONS TO AVOID: NA

#### INCOMPATIBILITY:

Acids react to release poisonous hydrogen cyanide gas. Also avoid flammable liquids and organic halengenated compounds.

#### HAZARDOUS DECOMPOSITION PRODUCTS:

None expected

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: NA

\_\_\_\_\_\_

SECTION 5 - HAZARDOUS COMPONENTS

\_\_\_\_\_\_

#### PAINTS, PRESERVATIVES, AND SOLVENTS:

ALLOYS AND METALLIC COATINGS:

NA

HAZARDOUS COMPONENTS	CAS NUMBER	$\mathtt{TLV}$	$\mathtt{PEL}$	LD50	%
Sodium Hydroxide (Caustic Soda)	1310-73-2	C 2	2	240	8.95
&-Potassium Cyanide (as CN (skin))	151-50-8	5	5	6.44	0.43
&-%inc Sulfate (zinkosite)	7733-02-0	$\mathbf{NF}$	NF	2200	2.16
ickel Sulfate (as soluble nickel)	7786-81-4	0.1	0.1	NF	0.56
&-Copper Sulfate (Copper as Cu)	7758-98-7	1	1	NF	0.93
TLV = Mg/M3 - PEL = Mg/M3 - LD50	= oral, rat,	Mg/Kg -	- NF	= None	Found

- # The indicated material, if any, is listed as a carginogen or potential carginogen by one or more of the following: National Toxicology Program, I.A.R.C. Monographs, OSHA.
- \*\* The indicated material, if any, does not have an estabished TLV, but does appear on one or more of the following states hazardous substance lists: Connecticut, Illinois, Michigan, Maine, Massachusetts, Minnesota, New Hampshire, New Jersey, New York, Oregon, Rhode Island, West Virginia, and Wisconsin, and is present in this product in amounts greater than 1%.
- & The indicated material, if any, is subject to the reporting requirements of SARA Title III, Section 313

SECTION 6 - SPILL, LEAK, AND DISPOSAL PROCEDURES

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#### SPILL & LEAK PROCEDURES:

Liquid should be contained and absorbed with a suitable absorbent such as soda ash, or flushed to a waste treatment area. Flush with plenty of water. Dilute sodium or calcium hypochlorite may be used to destroy final traces immediately after flushing. Avoid contact with acids, and acid waste.

Material Safety Data Sheet for CLEPO BONDAL

SECTION 6 - SPILL, LEAK, AND DISPOSAL PROCEDURES continued

#### TE DISPOSAL METHODS:

Caustic waste solutions should not be discharged into sewers or streams. Detoxify the solution with sodium or calcium hypochlorite to destroy the cyanide. The caustic should then be neutralized with dilute mineral acid to a locally acceptable pH, and then well diluted with water. Depending on usage and locality, precipitation and filtration of heavy metals may also be required. Otherwise, contact local waste disposal contractor.

SECTION 7 - HEALTH HAZARD DATA

#### ROUTES OF EXPOSURE

INHALATION: Airborne concentrations of mist or spray of this product may cause damage to the upper respiratory tract or lung tissue. Very high levels (above TLV for cyanide) may be fatal.

**SKIN CONTACT:** This product is destructive to tissue contacted and produces severe burns.

Nickel metal may sensitize skin(nickel itch)

**SKIN ABSORPTION:** Cyanide may be fatal if absorbed through the skin.

EYE CONTACT: This product is destructive to eye tissue on contact. Will cause severe burns that result in damage to the eye and even blindness. Also see SKIN ABSORPTION above.

INGESTION: This product, if swallowed, can cause sever burns and
 complete tissue perforation of mucous membranes of the mouth, throat,
 esophagus, and stomach. May be fatal if swallowed.

EFFECTS OF OVEREXPOSURE

ACUTE: Corrosive to all body tissues with which it comes in contact.

May be fatal from cyanide poisoning if swallowed.

CHRONIC: The chronic local effect may consist of multiple areas of superficial destruction of the skin or of primary irritant dermatitis, Similarly, inhalation of mist or spray may result in varying degrees of damage to the respiratory tract.

#### EMERGENCY AND FIRST AID PROCEDURES

EYES: IMMEDIATELY flush eyes with large amounts of water for at least 15 minutes, holding lids apart to ensure flushing of the entire surface. Washing eyes within 1 minute is essential to achieve maximum effectiveness. Seek medical attention IMMEDIATELY.

SKIN: Immediately wash contaminated areas with plenty of water for 15 minutes. Remove contaminated clothing and footwear, and wash before reuse. Discard any clothing that cannot be decontaminated. Seek medical attention immediately.

Material Safety Data Sheet for CLEPO BONDAL page: 3

# SECTION 7 - HEALTH HAZARD DATA continued

7 ALATION: Get person out of contaminated area to fresh air. If breathing has stopped, resuscitate and administer oxygen. Seek medical attention immediately.

INGESTION: NEVER give anything by mouth to an unconscious person. If swallowed, give large quantities of water, milk, or 1% sodium thiosulfate solution. If vomiting occurs spontaneously, keep airway clear. Seek medical attention immediately.

## SECTION 8 - SPECIAL HANDLING PROCEDURES

RESPIRATORY: Respiratory protection is not required under normal use.

Use NIOSH/MSHA approved respirator where mist or spray may be generated above TLV limits.

**VENTILATION:** Use adequate local exhaust ventilation where mist or spray may be generated, to maintain levels below TLV limits.

SLOVES: Impervious gloves should be worn (ex. rubber or neoprene)

EYES: Chemical safety goggles and/or face shield

OTHER: Chemically resistant shoes and apron. Safety showers and eyewash facilities should be accessible. All contaminated clothing should be washed with soap and water, and dried before reuse.

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# SECTION 9 - SPECIAL PRECAUTIONS

## HANDLING AND STORAGE PRECAUTIONS:

id contact with and do not store near acids and flammable liquids. Store in properly labeled containers. Do not store or handle food beverages, or tobacco near this product. This product contains CYANIDES, handle accordingly.

## OTHER PRECAUTIONS:

Keep container tightly closed when not in use. Wash thoroughly after handling. Containers, even those that have been emptied, will retain product residue and vapors. Always obey hazard warnings and handle empty containers as if they were full. Containers must not be used for any other purpose.

The information herein is based on technical data that is believed to be reliable. It is intended for use by persons having technical skill and at their own discretion and risk. Since conditions of use are outside our control, we make no warrenties, expressed or implied, and assume no liability in connection with the use of this information.

Material Safety Data Sheet for CLEPO BONDAL page: 4

MATERIAL SAFETY DATA SHEET SECTION 1 - IDENTIFICATION DATA \_\_\_\_\_\_\_ Emergency Telephone Numbers: CHEMTREC 800-424-9300 (24HR) 1 DERICK GUMM CHEMICAL COMPANY, INC. 538 Forest Street, Kearny, NJ 07032 8:00 AM - 5:00 PM EST 201-991-4174 Information CLEPO BONDAL ACTIVATOR D.O.T. HAZARD CLASS - Corrosive Poison NOS
CHEMICAL FAMILY - Sodium Hydroxide/Cyanide Effective Date: 01-31-90 CHEMICAL NAME/SYNONYMS - CLEPO BONDAL ACTIVATOR - Mixture FORMULA MSDS REVIEWED BY - Keith Frey, V.P. Quality & Regulatory Affairs \_\_\_\_\_\_\_ SECTION 2 - PHYSICAL DATA - NA BOILING POINT (Deg F) VAPOR PRESSURE (mm Hg) - NA VAPOR DENSITY (air=1) - NA SOLUBILITY IN WATER - Complete SPECIFIC GRAVITY (H20=1) - NA VOLATILE BY VOLUME - NA EVAPORATION RATE (H2O=1) - NA APPEARANCE & ODOR: WHITE POWDER, ALMOND ODOR SECTION 3 - FIRE AND EXPLOSION DATA \_\_\_\_\_\_\_ FLASH POINT - None EXTINGUISHING MEDIA: Do not use CO2 which may react to form hydrogen cyanide gas. SPECIAL FIRE FIGHTING PROCEDURES: Protective clothing and self-contained breathing apparatus should be worn by firefighters in areas where this product is stored. Avoid flushing to sewers or streams, toxic to aquatic life. UNUSUAL FIRE AND EXPLOSION HAZARDS: Irratating or poisonous gases released. DEGREE OF HAZARD NFPA HAZARD CLASSIFICATION: \_\_\_\_\_\_ (Blue) - 3 4=Extreme Health 3=Hiqh Flammability (Red) - 0 Reactivity (Yellow) - 1 2=Moderate

erial Safety Data Sheet for CLEPO BONDAL ACTIVATOR

1=Slight

0=Insignficant

page: 1

# SECTION 4 - REACTIVITY DATA

\_\_\_\_\_\_\_

BILITY: Stable

CONDITIONS TO AVOID: Open flame

INCOMPATIBILITY:

Acids react to release poisonous hydrogen cyanide gas.

HAZARDOUS DECOMPOSITION PRODUCTS:

None expected

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: NA

\_\_\_\_\_\_

SECTION 5 - HAZARDOUS COMPONENTS

\_\_\_\_\_\_

PAINTS, PRESERVATIVES, AND SOLVENTS:

ALLOYS AND METALLIC COATINGS:

NA

HAZARDOUS COMPONENTS CAS NUMBER  $\mathtt{TLV}$ PEL LD50 C 2 1310-73-2 **151-50-8** 240 Sodium Hydroxide (Caustic Soda) 2 92.5 5 5 6.44 &-Potassium Cyanide (as CN (skin)) PEL = Mq/M3 - LD50 = oral, rat, Mg/Kg - NF = None Found  $T^{TT} = Mq/M3 -$ 

- # The indicated material, if any, is listed as a carginogen or potential carginogen by one or more of the following: National Toxicology Program, I.A.R.C. Monographs, OSHA.
- \*\* The indicated material, if any, does not have an estabished TLV, but does appear on one or more of the following states hazardous substance lists: Connecticut, Illinois, Michigan, Maine, Massachusetts, Minnesota, New Hampshire, New Jersey, New York, Oregon, Rhode Island, West Virginia, and Wisconsin, and is present in this product in amounts greater than 1%.
- & The indicated material, if any, is subject to the reporting requirements of SARA Title III, Section 313

\_\_\_\_\_\_\_ SECTION 6 - SPILL, LEAK, AND DISPOSAL PROCEDURES

\_\_\_\_\_\_

## SPILL & LEAK PROCEDURES:

SPILLED POWDERS MAY BE SHOVELED UP AND STORED IN CLOSED CONTAINERS FOR PROP ER DISPOSAL. FLUSH WITH PLENTY OF WATER TO A WASTE TREATMENT AREA. SODIUM OR CALCIUM HYPOCHLORITE MAY BE USED TO NEUTRALIZE FINAL TRACES IMMED IATELY AFTER FLUSHING. AVOID CONTACT WITH ACIDS, AND ACID WASTE.

\_\_\_\_\_\_\_ page: 2

SECTION 6 - SPILL, LEAK, AND DISPOSAL PROCEDURES continued

## TE DISPOSAL METHODS:

CAUSTIC WASTE SOLUTIONS SHOULD NOT BE DISCHARGED INTO SEWERS OR STREAMS. DETOXIFY THE SOLUTION WITH SODIUM OR CALCIUM HYPOCHLORITE TO DESTROY THE CYANIDE. THE CAUSTIC SOLUTION SHOULD THEN BE NEUTRALIZED WITH DILUTE MINERAL ACID TO A LOCALLY ACCEPTABLE PH, AND THEN DILUTED WITH WATER. DEPENDING ON USAGE AND LOCALITY NEUTRAL SOLUTION COULD BE DISCHARGED TO THE SEWER, OTHERWISE CONTACT LOCAL WASTE DISPOSAL CONTRACTOR FOR DISPOSAL.

SECTION 7 - HEALTH HAZARD DATA

## ROUTES OF EXPOSURE

INHALATION: Airborne concentrations of mist or spray of this product may cause damage to the upper respiratory tract or lung tissue. Very high levels (above TLV for cyanide) may be fatal. SEE ATTACHED MSDS SHEET FOR POTASSIUM CYANIDE for more details.

**SKIN CONTACT:** This product is destructive to tissue contacted and produces severe burns.

SKIN ABSORPTION: Potassium Cyanide may be fatal if absorbed through the skin. SEE ATTACHED MSDS ON POTASSIUM CYANIDE for more details.

EYE CONTACT: This product is destructive to eye tissue on contact. Will cause severe burns that result in damage to the eye and even blindness. Also see SKIN ABSORBSION above.

INGESTION: This product, if swallowed, can cause severe burns, and complete tissue perforation of mucous membranes of the mouth, throat, esophagus, and stomach. May be fatal if swallowed. SEE ATTACHED MSDS ON POTASSIUM CYANIDE for further details.

## EFFECTS OF OVEREXPOSURE

ACUTE: Corrosive to all body tissues with which it comes in contact.

May be fatal from cyanide poisoning if swallowed. SEE ATTACHED MSDS ON POTASSIUM CYANIDE for further information.

CHRONIC: The chronic local effect may consist of multiple areas of superficial destruction of the skin. Similarly, inhalation of mist or spray may result in varying degrees of damage to the respiratory tract.

EMERGENCY AND FIRST AID PROCEDURES

EYES: IMMEDIATELY flush eyes with large amounts of water for at least 15 minutes, holding lids apart to insure flushing of the entire surface. Washing eyes within 1 minute is essential to achieve maximum effectiveness. Seek medical attention IMMEDIATELY. SEE ATTACHED MSDS on CYANIDE.

SKIN: Immediately wash contaminated areas with plenty of water for 15 minutes. Remove any clothing that cannot be decontaminated. Seek medical attention immediately. SEE ATTACHED MSDS for more information.

Material Safety Data Sheet for CLEPO BONDAL ACTIVATOR page: 3

## \_\_\_\_\_\_\_

## SECTION 7 - HEALTH HAZARD DATA continued

ALATION: Get person out of contaminated area to fresh air. If breathing has stopped resuscitate and administer oxygen. Seek medical attention immediately. SEE ATTACHED MSDS ON POTASSIUM CYANIDE for more information.

NEVER give anything by mouth to an unconscious person. If INGESTION: swallowed, give large quantities of water, mild, or 1% sodium thiosulfate solution. If vomiting occurs spontaneously, keep airway clear. Seek medical attention immediately. SEE ATTACHED MSDS ON POTASSIUM CYANIDE.

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## SECTION 8 - SPECIAL HANDLING PROCEDURES

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Respiratory protection is not required under normal use. RESPIRATORY: Use NIOSH/MSHA approved respirator where mist or spray may be generated above TLV values.

VENTILATION: Use adequate local exhaust ventilation where mist or spray may be generated, to maintain levels below TLV limits.

Impervious gloves should be worn (ex. rubber or neoprene) GLOVES:

Chemical safety goggles and/or face shield. EYES:

Chemically resistant shoes and apron. Safety showers and eyewash facilities should be accessible. All contaminated clothing should be washed with soap and water, and dried before reuse.

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## SECTION 9 - SPECIAL PRECAUTIONS

## DLING AND STORAGE PRECAUTIONS:

Avoid contact with and do not store near acids and flammables liquids. Store in properly labeled containers. Do not store or handle food beverages or tobacco near this product. See attached MSDS on Potassium Cyanide for additional information.

## OTHER PRECAUTIONS:

Keep container tightly closed when not in use. Wash thoroughly after handling. Containers, even those that have been emptied, will retain product residue and vapors. Always obey hazard warnings and handle empty containers as if they were full. Containers must not be used for any other purpose.

The information herein is based on technical data that is believed to be reliable. It is intended for use by persons having technical skill and at their own discretion and risk. Since conditions of use are outside our control, we make no warrenties, expressed or implied, and assume no liability in connection with the use of this information.

\_\_\_\_\_\_\_ Material Safety Data Sheet for CLEPO BONDAL ACTIVATOR page: 4

MATERIAL SAFETY DATA SHEET \_\_\_\_\_\_\_\_ SECTION 1 - IDENTIFICATION DATA \_\_\_\_\_\_ Emergency Telephone Numbers: F DERICK GUMM CHEMICAL COMPANY, INC. 555 Forest Street, Kearny, NJ 07032 CHEMTREC 800-424-9300 (24HR) 8:00 AM - 5:00 PM EST 201-991-4174 Information CLEPO BONDAL ADDITION AGENT D.O.T. HAZARD CLASS - Environmentally Hazardous Solid **Effec**CHEMICAL FAMILY - Nickel Sulfate/Zinc Sulfate Mix - Environmentally Hazardous Solid Effective Date: CHEMICAL NAME/SYNONYMS - CLEPO BONDAL ADDITION AGENT - Mixture FORMULA MSDS REVIEWED BY - Keith Frey, V.P. Quality & Regulatory Affairs \_\_\_\_\_\_\_ SECTION 2 - PHYSICAL DATA \_\_\_\_\_\_ BOILING POINT (Deg F) - NA VAPOR PRESSURE (mm Hg) - NA
VAPOR DENSITY (air=1) - NA
SOLUBILITY IN WATER - Complete SPECIFIC GRAVITY (H20=1) - NA VOLATILE BY VOLUME - NA EVAPORATION RATE (H2O=1) - NA APPEARANCE & ODOR: Green/Blue Granular Solid \_\_\_\_\_\_ SECTION 3 - FIRE AND EXPLOSION DATA \_\_\_\_\_\_ FLASH POINT - NONE EXTINGUISHING MEDIA: NA SPECIAL FIRE FIGHTING PROCEDURES: Protective clothing and self-contained breathing apparatus should be worn by firefighters in areas where product is stored. Water spray, foam, dry chemical, or carbon dioxide may be used in areas where product is stored. UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE NFPA HAZARD CLASSIFICATION: DEGREE OF HAZARD \_\_\_\_\_\_ Health (Blue) 4=Extreme Flammability (Red) 3=High

\_\_\_\_\_\_ Y erial Safety Data Sheet for CLEPO BONDAL ADDITION AGENT

Reactivity (Yellow) - 1

page: 1

2=Moderate

0=Insignficant

1=Slight

# SECTION 4 - REACTIVITY DATA

F BILITY: Stable

CONDITIONS TO AVOID: NA

INCOMPATIBILITY:

STRONG ALKALI'S

HAZARDOUS DECOMPOSITION PRODUCTS:

NONE EXPECTED

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS TO AVOID: NA

SECTION 5 - HAZARDOUS COMPONENTS

PAINTS, PRESERVATIVES, AND SOLVENTS:

 $\Delta$ T/

ALLOYS AND METALLIC COATINGS:

MΑ

HAZARDOUS COMPONENTS	CAS NUMBER	$\mathtt{TLV}$	PEL	LD50	%
&-Copper Sulfate (Copper as Cu)	7758-98-7	1	1	300	2.59
&-Zinc Sulfate (zinkosite)	7733-02-0	NF	NF	2200	35.0
#FNickel Sulfate (as soluble Nickel)	7786-81-4	0.1	0.1	200	11.5
= Mg/M3 - PEL = Mg/M3 - LD50	= oral, rat,	Mg/Kg	- NF	= None	Found

- # The indicated material, if any, is listed as a carginogen or potential carginogen by one or more of the following: National Toxicology Program, I.A.R.C. Monographs, OSHA.
- \*\* The indicated material, if any, does not have an established TLV, but does appear on one or more of the following states hazardous substance lists: Connecticut, Illinois, Michigan, Maine, Massachusetts, Minnesota, New Hampshire, New Jersey, New York, Oregon, Rhode Island, West Virginia, and Wisconsin, and is present in this product in amounts greater than 1%.
- & The indicated material, if any, is subject to the reporting requirements of SARA Title III, Section 313

SECTION 6 - SPILL, LEAK, AND DISPOSAL PROCEDURES

## SPILL & LEAK PROCEDURES:

Spilled material may be shoveled up, and stored in closed containers for possible normal use or proper disposal. Flush area with plenty of water. Mild alkali or lime solution may be used to neutralize final traces immediately after flushing

Perial Safety Data Sheet for CLEPO BONDAL ADDITION AGENT page: 2

SECTION 6 - SPILL, LEAK, AND DISPOSAL PROCEDURES continued

## TE DISPOSAL METHODS:

Acid waste solutions should not be discharged into sewers or streams. Acid should first be neutralized with dilute alkali or lime solutions to a locally acceptable pH, and then well diluted with water. Depending on usage and locality, may also require precipitation and filtration of heavy metals. Obey all Federal, State, and Local laws.

SECTION 7 - HEALTH HAZARD DATA

\_\_\_\_\_\_

## ROUTES OF EXPOSURE

INHALATION: Breathing dust, mist, spray, or fumes may cause irritation to the respiratory system. Gross over exposure may result in further toxic effects, including difficult breathing and coughing.

SKIN CONTACT: This product may cause irritation or burns to the skin.

SKIN ABSORPTION: See SKIN CONTACT above.

EYE CONTACT: This product is destructive to eye tissues. It may cause severe burns that result in damage to the eyes and even blindness.

INGESTION: This product, if swallowed, may irritate or burn the mouth and stomach, and may cause complete tissue perforation.

## EFFECTS OF OVEREXPOSURE

ACUTE: May irritate or burn all body tissues with which it comes in contact.

CTRONIC: Data not available.

## EMERGENCY AND FIRST AID PROCEDURES

EYES: IMMEDIATELY flush eyes with large amounts of water for at least 15 minutes, holding lids apart to ensure flushing of the entire surface. Washing eyes within 1 minute is essential to achieve maximum effectiveness. Seek medical attention immediately.

SKIN: Immediately wash contaminated areas with plenty of water for 15 minutes. Remove contaminated clothing and footwear, and wash clothing before reuse. Discard any clothing that can not be decontaminated. Seek medical attention immediately.

INHALATION: Get person to fresh air. If breathing has stopped, or irritation persists, seek medical attention immediately.

INGESTION: NEVER give anything by mouth to an unconscious person. DO NOT INDUCE VOMITING. Give large quantities of milk, milk of magnesia, or 1% lime and water solution. If vomiting occurs spontaneously, keep airways clear. Seek medical attention immediately.

Material Safety Data Sheet for CLEPO BONDAL ADDITION AGENT page: 3

# SECTION 8 - SPECIAL HANDLING PROCEDURES

piratory: Respiration protection is not required under normal use. Use NIOSH/MSHA approved respirator where dust, mist, or spray may be generated above TLV limit.

**VENTILATION:** Use adequate local exhaust ventilation where dust, mist, or spray may be generated, to maintain level below TLV limit.

GLOVES: Impervious gloves should be worn (ex. rubber or neoprene).

EYES: Chemical safety goggles and/or face shield.

OTHER: Chemical resistant shoes and apron. Safety showers and eyewash facilities should be accessible. All contaminated clothing should be washed with soap and water, and dried before reuse.

## SECTION 9 - SPECIAL PRECAUTIONS

## HANDLING AND STORAGE PRECAUTIONS:

Avoid contact with strong alkali. Powder dissolves in water to form an acidic solution. Store in a cool dry area, in a closed container. Avoid contact with skin and eyes.

## OTHER PRECAUTIONS:

Keep container tightly closed when not in use. Wash thoroughly after handling. Containers, even those that have been emptied, will retain product residue and vapors. Always obey hazard warnings and handle empty containers as if they were full. Containers must not be used for any other purpose.

The information herein is based on technical data that is believed to be reliable. It is intended for use by persons having technical skill and at their own discretion and risk. Since conditions of use are outside our control, we make no warrenties, expressed or implied, and assume no liability in connection with the use of this information.

Material Safety Data Sheet for CLEPO BONDAL ADDITION AGENT page: 4



# Diversified Chemical Sales, Inc.

Diversified Chemical Specialties & Equipment For Industries

847 S. EAST STREET • ANAHEIM, CALIFORNIA 92805-5395 (714) 535-0646 • (714) 535-4606 • (800) 243-5358 • FAX (714) 533-9856

Material Safety Data Sheet
May be used to comply with
OSHA's Hazard Communication Standard
29 CFR 1910.1200. Standard must be
consulted for specific requiremets

IDENTITY (As used on Label and List) Nickel Chloride C.A.S.# 7718-54-9 U.S. Department of Labor
Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072

SECTION I

DIXCO DIVERSIFIED CHEMICAL SALES, INCORPORATED

847 S. East Street Anaheim, CA 92805 (714) 535-0646 Emergency Telephone Number 800/424-9300

Date Prepared 2/1/96

Signature of Preparer

of lewis

## SECTION II - Hazardous Ingredients/Identity Information

Hazardous Components

Common Names

OSHA PEL

ACGIH TLV

Other Limits

% (Opt.)

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Nickel Chloride

Nickel Chloride

 $0.1 \text{ mg/m}^3$ 

0.1 mg/m<sup>3</sup>

N/A

54%

## Section 313 Supplier Notification

This product contains Nickel Chloride and is subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and of 40 CFR 372. This information must be included in Material Safety Data Sheets that are copied and distributed for this material.

No other hazardous material is present in concentration greater than 1%.

N/A

## CTION III - Physical/Chemical Characteristics

Boiling Point: 973° C(anhyrous chloride)

Vapor Pressure (mm Hg): N/A Vapor Density (Air = 1): N/A Solubility in Water: Soluble Specific Gravity (H20 = 1): 1.92

Melting Point: N/A

Evaporation Rate (Butyl Acetate = 1): N/A

Appearance and Odor: Green-yellow delinquescent Crystals; Odorless



# Diversified Chemical Sales, Inc.

Diversified Chemical Specialties & Equipment For Industries

## SECTION IV - Fire and Explosion Hazard Data

Flash Point (Method Used)

Flammable Limits

LEL

UEL

Inadequate

Inadequate

N/A

N/A

Extinguishing Media

No special agents recommended. Using water, the obtained Nickel Chloride Solution must be neutralized.

Special Fire Fighting Procedures

None

Unusual Fire and Explosion Hazards

None

## SECTION V - Reactivity Data

Stability

Unstable:N/A

Stable:X

Conditions to Avoid

Reaction with concentrated sulphuric acid will generate hydrochloric acid gas.

Incompatibility (Materials to Avoid)

None expected

Hazardous Decomposition or Byproducts: Rapid heating above 300° C can generate hydrochloric acid gas.

Hazardous Polymerization

May Occur: N/A Will not Occur: X

## SECTION VI - Health Hazard Data

Route(s) of Entry:

Inhalation: Yes Skin, Yes

Ingestion: Yes

## Health Hazards (Acute and Chronic):

Ingestion may cause nausea, vomiting, drizziness, diarhea. There is no report of fatal intoxocation in humans. Inhalation: individuals sensitized to nickel may develop asthma, bronchitis or other respiratory difficulties.

Carcigenicity

NTP

IARC Monographs

OSHA Regulated

N/A

N/A

N/A

Chronic Toxicity: IARC indicated nickel refining and certain nickel compounds were cancer-causing. NTP lists nickel powder, nickel subsulfide, nickel oxide, nickel carbonate, nickel carbonyl, and nickelocene as suspect carcinogens.

## Signs and Symptoms of Exposure

Eye contact:may cause irritation or allergic reaction. Skin contact may produce a dermatitis known as "nickel itch." Skin sensitization is the most common toxic reaction to nickel and nickel compounds. Inhalation: irritating to the upper respiratory tract.

## Medical Conditions Generally Aggravated by Exposure

Ingestion:In case of accidental ingestion estimated at less than 0.5 g approximately, drink much water. For higher quantities, see a physician. Ingestion:remove to fresh air. In case of extreme situation, give oxygen mask, see a physician.

## **Emergency and First Aid Procedures**

Eyes: In case of contact, immediately flush eyes with flowing water for at least 15 minutes. Get medical attention. Skin: Flush with flowing water for 15 minutes, then wash area with mild soap and water. If irritation develops seek medical attention.



# Diversified Chemical Sales, Inc.

Diversified Chemical Specialties & Equipment For Industries

## SECTION VII - Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled Wear gloves and, if cleaning operations create dust, wear a nationally approved respirator. If the product does not seem to be contaminated, recover it by means of a shovel/vacuum cleaner in order to recycle it/send to a certified station for waste treatment

Waste Disposal Method

Dispose of material as solid waste. Follow all chemical pollution control regulations. Consult appropriate state regulations for waste classification of nickel-containing compounds.

Precautions to be Taken in Handling and Safety Wear gloves. In case of risk aerosol formation, wear goggles/nationally approved respirator/mask. Storage: In dry conditions, in closed packaging/tank. Check the need for compliance with tonnage limit for storage. The product is delivered in a polypropylene bag

Other Precautions No further data available

Work/Hygienic Practices Must adhere to good houskeeping practices at all times!

## SECTION VIII - Control Measures

Respiratory Protection (Specify Type)

If processing of the product potentially produces aerosols, the equipment must encompass ventilation allowing to maintain the exposure as low as possible, below the nationally recommended fixed limit value. Use NIOSH approved dust and mist respirator.

Ventilation-

Local Exhaust

Special

Mechanical (General)

Other

Recommended

N/A

Is required

N/A

Protective Gloves

Acid-resistant gloves

Eve Protection

Chemical workers' goggles. Do not wear contact lenses.

Other protective Clothing or Equipment

Wear suitable acid-resistant clothing which will be laundered as needed

## SECTION IX - Transportation

Poisonous solid, NOS, (contains Nickel Chloride), UN 2811, 6.1, PGIII, keep away from foodstuff.

This material safety data sheet is offered solely for your information, consideration, and investigation. DIXCO provides no warranties, either express or implied, and assumes no responsibility for the accuracy or completeness of the data contained herein.

MATERIAL SAFETY DATA SHEET \_\_\_\_\_\_\_\_\_ SECTION 1 - IDENTIFICATION DATA \_\_\_\_\_\_ J DERICK GUMM CHEMICAL COMPANY, INC.
508 Forest Street, Kearny, NJ 07032 Emergency Telephone Numbers: CHEMTREC 800-424-9300 (24HR) 8:00 AM - 5:00 PM EST 201-991-4174 Information GEMINI 85 LEVELER D.O.T. HAZARD CLASS - Non-DOT Regulated CHEMICAL FAMILY - Nickel Brightener Effective Date: 05-27-92 CHEMICAL NAME/SYNONYMS - GEMINI 85 LEVELER - Mixture FORMULA MSDS REVIEWED BY - Keith Frey, V.P. Quality & Regulatory Affairs \_\_\_\_\_\_ SECTION 2 - PHYSICAL DATA \_\_\_\_\_\_\_ BOILING POINT (Deg F) - Over 212 deg F VAPOR PRESSURE (mm Hg) - NA VAPOR DENSITY (air=1) - NA SOLUBILITY IN WATER - Complete SPECIFIC GRAVITY (H20=1) - APPROX. 1.02 VOLATILE BY VOLUME - 90% EVAPORATION RATE (H2O=1) - >1 APPEARANCE & ODOR: Clear liquid with no oder SECTION 3 - FIRE AND EXPLOSION DATA \_\_\_\_\_\_ FLASH POINT - None EXTINGUISHING MEDIA: This product is not combustible. SPECIAL FIRE FIGHTING PROCEDURES: Protective clothing and self-contained breathing apparatus should be worn by firefighters in areas where product is stored. Water spray, foam, dry chemical, or carbon dioxide may be used in areas where product is stored. UNUSUAL FIRE AND EXPLOSION HAZARDS: None DEGREE OF HAZARD NFPA HAZARD CLASSIFICATION: \_\_\_\_\_ Health 4=Extreme (Blue) - 1 3=High Flammability (Red)

erial Safety Data Sheet for GEMINI 85 LEVELER

Reactivity (Yellow) - 0

page: 1

2=Moderate

0=Insignficant

1=Slight

SECTION 4 - REACTIVITY DATA \_\_\_\_\_\_\_ BILITY: Stable CONDITIONS TO AVOID: NA INCOMPATIBILITY: NA HAZARDOUS DECOMPOSITION PRODUCTS: None expected HAZARDOUS POLYMERIZATION: Will not occur CONDITIONS TO AVOID: NA SECTION 5 - HAZARDOUS COMPONENTS PAINTS, PRESERVATIVES, AND SOLVENTS: ALLOYS AND METALLIC COATINGS: NA  $\mathtt{TLV}$ LD50 CAS NUMBER PEL HAZARDOUS COMPONENTS NONE PEL = Mg/M3 - LD50 = oral, rat, Mg/Kg - NF = None FoundTLV = Mq/M3- The indicated material, if any, is listed as a carginogen or potential carginogen by one or more of the following: National Toxicology Program, I.A.R.C. Monographs, OSHA. \*\* - The indicated material, if any, does not have an established TLV, but does appear on one or more of the following states hazardous substance lists: Connecticut, Illinois, Michigan, Maine, Massachusetts, Minnesota, New Hampshire, New Jersey, New York, Oregon, Rhode Island, West Virginia, and Wisconsin, and is present in this product in amounts greater than 1%. & - The indicated material, if any, is subject to the reporting requirements of SARA Title III, Section 313 SECTION 6 - SPILL, LEAK, AND DISPOSAL PROCEDURES SPILL & LEAK PROCEDURES: Liquids should be contained and adsorbed with a suitable adsorbent, or

Liquids should be contained and adsorbed with a suitable adsorbent, or flushed to the waste treatment area. Flush area with plenty of water. Avoid all personal contact.

WASTE DISPOSAL METHODS:

Waste solution should not be discharged into sewers or streams. Solution should first be neutralized to a locally acceptable pH, and then well diluted with water. Depending on usage and locality, may also require precipitation and filtration of heavy metals. Otherwise, contact local

page: 2

erial Safety Data Sheet for GEMINI 85 LEVELER

	SECTION	6 -	SPILL,	LEAK	, 7	QMA	DISPO	SAL P	ROCEDURES	continued		
		====		=====	===	====	=====	=====				
waste	disposal	cor	ntracto	c.								
			SECT	ION 7	_	HEA	ALTH E	IAZARD	DATA			

## ROUTES OF EXPOSURE

INHALATION: Inhaling mist or spray is irritating to the upper respiratory tract and depending on the severity of exposure, may cause tissue damage. May also cause a decrease in alertness.

SKIN CONTACT: This product is irritating to tissues contacted and may cause skin damage.

SKIN ABSORPTION: See SKIN CONTACT above.

EYE CONTACT: This product is irritating to eye tissues on contact. May cause permanent eye damage.

INGESTION: This product, if swallowed, will be irritating to the mouth, throat, and stomach.

## EFFECTS OF OVEREXPOSURE

ACUTE: Irritating to all body tissues with which it comes in contact.

CHRONIC: Repeated or prolonged exposure may cause dermatitis.

EMERGENCY AND FIRST AID PROCEDURES

EYES: IMMEDIATELY flush eyes with large amounts of water for at least 15 minutes, holding lids apart to ensure flushing of the entire surface. We shing eyes within 1 minute is essential to achieve maximum effectiveness. k medical attention immediately.

SKIN: Immediately wash contaminated areas with plenty of water for 15 minutes. Remove contaminated clothing and footwear, and wash clothing before reuse. Discard any clothing that can not be decontaminated. Seek medical attention immediately.

INHALATION: Get person out of contaminated area to fresh air. If breathing has stopped, resuscitate and administer oxygen if readily available. Seek medical attention immediately.

INGESTION: NEVER give anything by mouth to an unconscious person. If swallowed, do not induce vomiting. Give large quantities of water. If vomiting occurs spontaneously, keep airway clear. Seek medical attention immediately.

# 

F PIRATORY: Respiration protection is not required under normal use.

Use NIOSH/MSHA approved respirator where mist or spray may be generated above the TLV limit.

**VENTILATION:** Use adequate local exhaust ventilation where mist or spray may be generated, to maintain level below the TLV limit.

ELOVES: Impervious gloves should be worn (ex. rubber or neoprene).

EYES: Chemical safety goggles and/or face shield.

OTHER: Chemically resistant shoes and apron. Safety showers and eyewash facilities should be accessible. All contaminated clothing should be washed with soap and water, and dried before reuse.

## SECTION 9 - SPECIAL PRECAUTIONS

## HANDLING AND STORAGE PRECAUTIONS:

Avoid contact with skin and eyes. Wash thoroughly after handling material. Store in a cool, dry area, in a closed container when not being used. DO NOT STORE with oxidizers.

## OTHER PRECAUTIONS:

Keep container tightly closed when not in use. Wash thoroughly after handling. Containers, even those that have been emptied, will retain product residue and vapors. Always obey hazard warnings and handle empty containers as if they were full. Containers must not be used for any other purpose.

The information herein is based on technical data that is believed to be reliable. It is intended for use by persons having technical skill and at their own discretion and risk. Since conditions of use are outside our control, we make no warrenties, expressed or implied, and assume no liability in connection with the use of this information.

Material Safety Data Sheet for GEMINI 85 LEVELER

page: 4

MATERIAL SAFETY DATA SHEET \_\_\_\_\_\_\_ SECTION 1 - IDENTIFICATION DATA \_\_\_\_\_\_\_ Emergency Telephone Numbers: CHEMTREC 800-424-9300 (24HR) DERICK GUMM CHEMICAL COMPANY, INC. 500 Forest Street, Kearny, NJ 07032 8:00 AM - 5:00 PM EST GEMINI 850 RACK MAINTENANCE 201-991-4174 Information D.O.T. HAZARD CLASS - Non-DOT Regulated CHEMICAL FAMILY - Nickel Brightener Effective Date: 05-27-92 CHEMICAL NAME/SYNONYMS - GEMINI 850 RACK MAINTENANCE - Mixture FORMULA MSDS REVIEWED BY - Keith Frey, V.P. Quality & Regulatory Affairs \_\_\_\_\_\_\_\_ SECTION 2 - PHYSICAL DATA \_\_\_\_\_\_ VAPOR PRESSURE (mm Hg) - NA
VAPOR DENSITY (2:2 1) VAPOR DENSITY (air=1) - NA SOLUBILITY IN WATER - Complete SPECIFIC GRAVITY (H20=1) - APPROX. 1.04 VOLATILE BY VOLUME - 70% EVAPORATION RATE (H2O=1) - >1 APPEARANCE & ODOR: Light tan liquid with mild oder SECTION 3 - FIRE AND EXPLOSION DATA \_\_\_\_\_\_ FLASH POINT - None EXTINGUISHING MEDIA: This product is not combustible. SPECIAL FIRE FIGHTING PROCEDURES: Protective clothing and self-contained breathing apparatus should be worn by firefighters in areas where product is stored. Water spray, foam, dry chemical, or carbon dioxide may be used in areas where product is stored. UNUSUAL FIRE AND EXPLOSION HAZARDS: None DEGREE OF HAZARD NFPA HAZARD CLASSIFICATION: 4=Extreme Health (Blue) Flammability (Red) - 0 3=High Reactivity (Yellow) - 0 2=Moderate 1=Slight 0=Insignficant 

erial Safety Data Sheet for GEMINI 850 RACK MAINTENANCE

page: 1

# SECTION 4 - REACTIVITY DATA

\_\_\_\_\_\_\_

BILITY: Stable

CONDITIONS TO AVOID: NA

## INCOMPATIBILITY:

Strong oxidizers

## HAZARDOUS DECOMPOSITION PRODUCTS:

None expected

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: NA

\_\_\_\_\_\_

SECTION 5 - HAZARDOUS COMPONENTS

\_\_\_\_\_\_

PAINTS, PRESERVATIVES, AND SOLVENTS:

ALLOYS AND METALLIC COATINGS:

NA

HAZARDOUS COMPONENTS #-Saccharin

CAS NUMBER 81-07-2

TLV PEL LD50 NF NF

NF6.44

TLV = Mq/M3

PEL = Mq/M3 -

LD50 = oral, rat, Mg/Kg -

NF = None Found

- The indicated material, if any, is listed as a carginogen or potential carginogen by one or more of the following: National Toxicology Program, I.A.R.C. Monographs, OSHA.
- \*\* The indicated material, if any, does not have an established TLV, but does appear on one or more of the following states hazardous substance lists: Connecticut, Illinois, Michigan, Maine, Massachusetts, Minnesota, New Hampshire, New Jersey, New York, Oregon, Rhode Island, West Virginia, and Wisconsin, and is present in this product in amounts greater than 1%.
- & The indicated material, if any, is subject to the reporting requirements of SARA Title III, Section 313

SECTION 6 - SPILL, LEAK, AND DISPOSAL PROCEDURES

\_\_\_\_\_\_\_

## SPILL & LEAK PROCEDURES:

Liquids should be contained and adsorbed with a suitable adsorbent, or flushed to the waste treatment area. Flush area with plenty of water. Avoid all personal contact.

## WASTE DISPOSAL METHODS:

Waste solution should not be discharged into sewers or streams. Solution should first be neutralized to a locally acceptable pH, and then well diluted with water. Depending on usage and locality, may also require precipitation and filtration of heavy metals. Otherwise, contact local

erial Safety Data Sheet for GEMINI 850 RACK MAINTENANCE

========	SECTION	6	- SPILL,	LE <i>F</i>	k,	AND		POSAL P		continued	==
waste	disposal	. C	ontracto	r.							
		==	SECT	ION	7	 - HE	ALTH	HAZARD	DATA		_==

## ROUTES OF EXPOSURE

INHALATION: Inhaling mist or spray is irritating to the upper respiratory tract and depending on the severity of exposure, may cause tissue damage. May also cause a decrease in alertness.

**SKIN CONTACT:** This product is irritating to tissues contacted and may cause skin damage.

**SKIN ABSORPTION:** See SKIN CONTACT above.

EYE CONTACT: This product is irritating to eye tissues on contact. May cause permanent eye damage.

INGESTION: This product, if swallowed, will be irritating to the mouth, throat, and stomach.

## EFFECTS OF OVEREXPOSURE

ACUTE: Irritating to all body tissues with which it comes in contact.

CHRONIC: Repeated or prolonged exposure may cause dermatitis.

EMERGENCY AND FIRST AID PROCEDURES

EYES: IMMEDIATELY flush eyes with large amounts of water for at least 15 minutes, holding lids apart to ensure flushing of the entire surface. Washing eyes within 1 minute is essential to achieve maximum effectiveness. k medical attention immediately.

SKIN: Immediately wash contaminated areas with plenty of water for 15 minutes. Remove contaminated clothing and footwear, and wash clothing before reuse. Discard any clothing that can not be decontaminated. Seek medical attention immediately.

INHALATION: Get person out of contaminated area to fresh air. If breathing has stopped, resuscitate and administer oxygen if readily available. Seek medical attention immediately.

INGESTION: NEVER give anything by mouth to an unconscious person. If swallowed, do not induce vomiting. Give large quantities of water. If vomiting occurs spontaneously, keep airway clear. Seek medical attention immediately.

Material Safety Data Sheet for GEMINI 850 RACK MAINTENANCE page: 3

# \_\_\_\_\_

## SECTION 8 - SPECIAL HANDLING PROCEDURES

F PIRATORY: Respiration protection is not required under normal use. Use NIOSH/MSHA approved respirator where mist or spray may be generated above the TLV limit.

Use adequate local exhaust ventilation where mist or spray **VENTILATION:** may be generated, to maintain level below the TLV limit.

Impervious gloves should be worn (ex. rubber or neoprene).

Chemical safety goggles and/or face shield.

Chemically resistant shoes and apron. Safety showers and eyewash OTHER: facilities should be accessible. All contaminated clothing should be washed with soap and water, and dried before reuse.

\_\_\_\_\_\_

## SECTION 9 - SPECIAL PRECAUTIONS

\_\_\_\_\_\_\_

## HANDLING AND STORAGE PRECAUTIONS:

Avoid contact with skin and eyes. Wash thoroughly after handling material. Store in a cool, dry area, in a closed container when not being used. DO NOT STORE with strong oxidizers.

## OTHER PRECAUTIONS:

Keep container tightly closed when not in use. Wash thoroughly after handling. Containers, even those that have been emptied, will retain product residue and vapors. Always obey hazard warnings and handle empty containers as if they were full. Containers must not be used for any other purpose.

The information herein is based on technical data that is believed to be reliable. It is intended for use by persons having technical skill and at their own discretion and risk. Since conditions of use are outside our control, we make no warrenties, expressed or implied, and assume no liability in connection with the use of this information.

Material Safety Data Sheet for GEMINI 850 RACK MAINTENANCE

MATERIAL SAFETY DATA SHEET \_\_\_\_\_\_ SECTION 1 - IDENTIFICATION DATA \_\_\_\_\_\_ I DERICK GUMM CHEMICAL COMPANY, INC.
538 Forest Street, Kearny, NJ 07032 Emergency Telephone Numbers: CHEMTREC 800-424-9300 (24HR) 8:00 AM - 5:00 PM EST GEMINI ADDITIVE 55 201-991-4174 Information D.O.T. HAZARD CLASS - Non-DOT Regulated CHEMICAL FAMILY - Nickel Brightener Effective Date: 09-28-92 CHEMICAL NAME/SYNONYMS - GEMINI ADDITIVE 55 - Mixture FORMULA MSDS REVIEWED BY - Keith Frey, V.P. Quality & Regulatory Affairs \_\_\_\_\_\_ SECTION 2 - PHYSICAL DATA \_\_\_\_\_\_\_ BOILING POINT (Deg F) - Over 212 deg F VAPOR PRESSURE (mm Hg) - NA VAPOR DENSITY (air=1) - NA SOLUBILITY IN WATER - Complete SPECIFIC GRAVITY (H20=1) - APPROX. 1.12 VOLATILE BY VOLUME - 47% EVAPORATION RATE (H2O=1) - <1 APPEARANCE & ODOR: Clear liquid with no oder SECTION 3 - FIRE AND EXPLOSION DATA \_\_\_\_\_\_\_ FLASH POINT - None EXTINGUISHING MEDIA: This product is not combustible. SPECIAL FIRE FIGHTING PROCEDURES: Protective clothing and self-contained breathing apparatus should be worn by firefighters in areas where product is stored. Water spray, foam, dry chemical, or carbon dioxide may be used in areas where product is stored. UNUSUAL FIRE AND EXPLOSION HAZARDS: None NFPA HAZARD CLASSIFICATION: DEGREE OF HAZARD (Blue) - 2 Health 4=Extreme Flammability (Red) - 0 3=Hiqh

! erial Safety Data Sheet for GEMINI ADDITIVE 55

Reactivity (Yellow) - 0

page: 1

2=Moderate 1=Slight

0=Insignficant

SECTION 4 - REACTIVITY DATA \_\_\_\_\_\_ BILITY: Stable CONDITIONS TO AVOID: NA INCOMPATIBILITY: NΑ HAZARDOUS DECOMPOSITION PRODUCTS: None expected HAZARDOUS POLYMERIZATION: Will not occur CONDITIONS TO AVOID: NA \_\_\_\_\_\_\_ SECTION 5 - HAZARDOUS COMPONENTS \_\_\_\_\_\_ PAINTS, PRESERVATIVES, AND SOLVENTS: ALLOYS AND METALLIC COATINGS: NA HAZARDOUS COMPONENTS CAS NUMBER TLV PEL LD50 50-00-0 #&Formaldehyde 2 NF 800 0.04 PEL = Mq/M3 -LD50 = oral, rat, Mg/Kg - NF = None Found TLV = Mq/M3 -- The indicated material, if any, is listed as a carginogen or potential carginogen by one or more of the following: National Toxicology Program, I.A.R.C. Monographs, OSHA. \*\* - The indicated material, if any, does not have an estabished TLV, but does appear on one or more of the following states hazardous substance lists: Connecticut, Illinois, Michigan, Maine, Massachusetts, Minnesota, New Hampshire, New Jersey, New York, Oregon, Rhode Island, West Virginia, and Wisconsin, and is present in this product in amounts greater than 1%. & - The indicated material, if any, is subject to the reporting requirements of SARA Title III, Section 313 \_\_\_\_\_\_\_ SECTION 6 - SPILL, LEAK, AND DISPOSAL PROCEDURES \_\_\_\_\_\_ SPILL & LEAK PROCEDURES: Liquids should be contained and adsorbed with a suitable adsorbent, or flushed to the waste treatment area. Flush area with plenty of water.

Avoid all personal contact.

## WASTE DISPOSAL METHODS:

Waste solution should not be discharged into sewers or streams. Solution should first be neutralized to a locally acceptable pH, and then well diluted with water. Depending on usage and locality, may also require precipitation and filtration of heavy metals. Otherwise, contact local 

erial Safety Data Sheet for GEMINI ADDITIVE 55

page: 2

# SECTION 6 - SPILL, LEAK, AND DISPOSAL PROCEDURES continued waste disposal contractor. SECTION 7 - HEALTH HAZARD DATA

## ROUTES OF EXPOSURE

INHALATION: Inhaling mist or spray is irritating to the upper respiratory tract and depending on the severity of exposure, may cause tissue damage. May also cause a decrease in alertness.

**SKIN CONTACT:** This product is irritating to tissues contacted and may cause skin damage.

SKIN ABSORPTION: See SKIN CONTACT above.

EYE CONTACT: This product is irritating to eye tissues on contact. May cause permanent eye damage.

INGESTION: This product, if swallowed, will be irritating to the mouth,
 throat, and stomach.

## EFFECTS OF OVEREXPOSURE

ACUTE: Irritating to all body tissues with which it comes in contact.

CHRONIC: Repeated or prolonged exposure may cause dermatitis.

EMERGENCY AND FIRST AID PROCEDURES

EYES: IMMEDIATELY flush eyes with large amounts of water for at least 15 minutes, holding lids apart to ensure flushing of the entire surface.

We shing eyes within 1 minute is essential to achieve maximum effectiveness.

k medical attention immediately.

SKIN: Immediately wash contaminated areas with plenty of water for 15 minutes. Remove contaminated clothing and footwear, and wash clothing before reuse. Discard any clothing that can not be decontaminated. Seek medical attention immediately.

INHALATION: Get person out of contaminated area to fresh air. If breathing has stopped, resuscitate and administer oxygen if readily available. Seek medical attention immediately.

INGESTION: NEVER give anything by mouth to an unconscious person. If swallowed, do not induce vomiting. Give large quantities of water. If vomiting occurs spontaneously, keep airway clear. Seek medical attention immediately.

Material Safety Data Sheet for GEMINI ADDITIVE 55 page: 3

## 

## SECTION 8 - SPECIAL HANDLING PROCEDURES

F PIRATORY: Respiration protection is not required under normal use. Use NIOSH/MSHA approved respirator where mist or spray may be generated above the TLV limit.

**VENTILATION:** Use adequate local exhaust ventilation where mist or spray may be generated, to maintain level below the TLV limit.

GLOVES: Impervious gloves should be worn (ex. rubber or neoprene).

EYES: Chemical safety goggles and/or face shield.

OTHER: Chemically resistant shoes and apron. Safety showers and eyewash facilities should be accessible. All contaminated clothing should be washed with soap and water, and dried before reuse.

## SECTION 9 - SPECIAL PRECAUTIONS

## HANDLING AND STORAGE PRECAUTIONS:

Avoid contact with skin and eyes. Wash thoroughly after handling material. Store in a cool, dry area, in a closed container when not being used. DO NOT STORE with strong oxidizers.

## OTHER PRECAUTIONS:

Keep container tightly closed when not in use. Wash thoroughly after handling. Containers, even those that have been emptied, will retain product residue and vapors. Always obey hazard warnings and handle empty containers as if they were full. Containers must not be used for any other purpose.

The information herein is based on technical data that is believed to be reliable. It is intended for use by persons having technical skill and at their own discretion and risk. Since conditions of use are outside our control, we make no warrenties, expressed or implied, and assume no liability in connection with the use of this information.

Material Safety Data Sheet for GEMINI ADDITIVE 55

MATERIAL SAFETY DATA SHEET \_\_\_\_\_\_ SECTION 1 - IDENTIFICATION DATA \_\_\_\_\_\_ Emergency Telephone Numbers:
5.3 Forest Street, Kearny, NJ 07032

CHEMTREC 800-424-9300 (24HR) F DERICK GUMM CHEMICAL COMPANY, INC. CLEPO 992-N 201-991-4174 Information Effective Date: D.O.T. HAZARD CLASS - Non-DOT Regulated CHEMICAL FAMILY - Nickel Brightener 06-27-94 CHEMICAL NAME/SYNONYMS - CLEPO 992-N - Mixture FORMULA MSDS REVIEWED BY - Keith Frey, V.P. Quality & Regulatory Affairs \_\_\_\_\_\_\_ SECTION 2 - PHYSICAL DATA \_\_\_\_\_\_\_ BOILING POINT (Deg F) - Over 212 deg F
VAPOR PRESSURE (mm Hg) - NA
VAPOR DENSITY (air=1) - NA
SOLUBILITY IN WATER - Complete SPECIFIC GRAVITY (H20=1) - 1.10 VOLATILE BY VOLUME - NA EVAPORATION RATE (H2O=1) - <1 APPEARANCE & ODOR: Clear liquid with no oder SECTION 3 - FIRE AND EXPLOSION DATA \_\_\_\_\_\_\_ FLASH POINT - None EXTINGUISHING MEDIA: This product is not combustible. SPECIAL FIRE FIGHTING PROCEDURES: Protective clothing and self-contained breathing apparatus should be worn by firefighters in areas where product is stored. Water spray, foam, dry chemical, or carbon dioxide may be used in areas where product is stored. UNUSUAL FIRE AND EXPLOSION HAZARDS: None NFPA HAZARD CLASSIFICATION: DEGREE OF HAZARD Health (Blue) - 1 4=Extreme Flammability (Red) - 0 3=High

P erial Safety Data Sheet for CLEPO 992-N

Reactivity (Yellow) - 0

page: 1

2=Moderate 1=Slight 0=Insignficant

# SECTION 4 - REACTIVITY DATA

S BILITY: Stable

CONDITIONS TO AVOID: NA

INCOMPATIBILITY:

Strong oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS:

None expected

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: NA

SECTION 5 - HAZARDOUS COMPONENTS

PAINTS, PRESERVATIVES, AND SOLVENTS:

NΑ

ALLOYS AND METALLIC COATINGS:

NA

HAZARDOUS COMPONENTS #-Saccharin

CAS NUMBER TLV PEL LD50 % 81-07-2 NF NF NF 12.5

TLV = Mg/M3 - PEL = Mg/M3 -

LD50 = oral, rat, Mg/Kg - NF = None Found

- The indicated material, if any, is listed as a carginogen or potential carginogen by one or more of the following: National Toxicology Program, I.A.R.C. Monographs, OSHA.
- \*\* The indicated material, if any, does not have an established TLV, but does appear on one or more of the following states hazardous substance lists: Connecticut, Illinois, Michigan, Maine, Massachusetts, Minnesota, New Hampshire, New Jersey, New York, Oregon, Rhode Island, West Virginia, and Wisconsin, and is present in this product in amounts greater than 1%.
- & The indicated material, if any, is subject to the reporting requirements of SARA Title III, Section 313

SECTION 6 - SPILL, LEAK, AND DISPOSAL PROCEDURES

## SPILL & LEAK PROCEDURES:

Liquids should be contained and adsorbed with a suitable adsorbent, or flushed to the waste treatment area. Flush area with plenty of water. Avoid all personal contact.

## WASTE DISPOSAL METHODS:

Waste solution should not be discharged into sewers or streams. Solution should first be neutralized to a locally acceptable pH, and then well diluted with water. Depending on usage and locality, may also require precipitation and filtration of heavy metals. Otherwise, contact local

erial Safety Data Sheet for CLEPO 992-N

page: 2

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	SECTION	6 -	SPILL,	LEAK,	AND	DISPOS	AL PROCE	EDURES	continued	
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waste	disposal	. cor	ntracto	r.						
			SECT	ION 7	- HE	ALTH HA	ZARD DAI	?A	5 KM Mad (Sine) (904), (974) (274) (275) (275) (276) (276)	

## ROUTES OF EXPOSURE

Inhaling mist or spray is irritating to the upper respiratory tract and depending on the severity of exposure, may cause tissue damage. May also cause a decrease in alertness.

**SKIN CONTACT:** This product is irritating to tissues contacted and may cause skin damage.

**SKIN ABSORPTION:** See SKIN CONTACT above.

EYE CONTACT: This product is irritating to eye tissues on contact. May cause permanent eye damage.

INGESTION: This product, if swallowed, will be irritating to the mouth,
 throat, and stomach.

## EFFECTS OF OVEREXPOSURE

ACUTE: Irritating to all body tissues with which it comes in contact.

CHRONIC: Repeated or prolonged exposure may cause dermatitis.

EMERGENCY AND FIRST AID PROCEDURES

EYES: IMMEDIATELY flush eyes with large amounts of water for at least 15 minutes, holding lids apart to ensure flushing of the entire surface. Washing eyes within 1 minute is essential to achieve maximum effectiveness. k medical attention immediately.

SKIN: Immediately wash contaminated areas with plenty of water for 15 minutes. Remove contaminated clothing and footwear, and wash clothing before reuse. Discard any clothing that can not be decontaminated. Seek medical attention immediately.

INHALATION: Get person out of contaminated area to fresh air. If breathing has stopped, resuscitate and administer oxygen if readily available. Seek medical attention immediately.

INGESTION: NEVER give anything by mouth to an unconscious person. If swallowed, do not induce vomiting. Give large quantities of water. If vomiting occurs spontaneously, keep airway clear. Seek medical attention immediately.

Material Safety Data Sheet for CLEPO 992-N page: 3

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## SECTION 8 - SPECIAL HANDLING PROCEDURES

F PIRATORY: Respiration protection is not required under normal use. Use NIOSH/MSHA approved respirator where mist or spray may be generated above the TLV limit.

Use adequate local exhaust ventilation where mist or spray VENTILATION: may be generated, to maintain level below the TLV limit.

Impervious gloves should be worn (ex. rubber or neoprene).

Chemical safety goggles and/or face shield.

Chemically resistant shoes and apron. Safety showers and eyewash OTHER: facilities should be accessible. All contaminated clothing should be washed with soap and water, and dried before reuse.

## SECTION 9 - SPECIAL PRECAUTIONS

## HANDLING AND STORAGE PRECAUTIONS:

Avoid contact with skin and eyes. Wash thoroughly after handling material. Store in a cool, dry area, in a closed container when not being used. DO NOT STORE with oxidizers.

## OTHER PRECAUTIONS:

Keep container tightly closed when not in use. Wash thoroughly after handling. Containers, even those that have been emptied, will retain product residue and vapors. Always obey hazard warnings and handle empty containers as if they were full. Containers must not be used for any other purpose.

The information herein is based on technical data that is believed to be reliable. It is intended for use by persons having technical skill and at their own discretion and risk. Since conditions of use are outside our control, we make no warrenties, expressed or implied, and assume no liability in connection with the use of this information.

\_\_\_\_\_\_\_\_ Material Safety Data Sheet for CLEPO 992-N

MATERIAL SAFETY DATA SHEET \_\_\_\_\_\_\_ SECTION 1 - IDENTIFICATION DATA I DERICK GUMM CHEMICAL COMPANY, INC.

508 Forest Street, Kearny, NJ 07032

CHEMTREC 800-424-9300 (24HR) 8:00 AM - 5:00 PM EST CLEPO NICKEL PURIFIER CA 201-991-4174 Information D.O.T. HAZARD CLASS - Non-DOT Regulated Effective Date: CHEMICAL FAMILY - Nickel Brightener 09-17-91 CHEMICAL NAME/SYNONYMS - CLEPO NICKEL PURIFIER CA - Mixture FORMULA MSDS REVIEWED BY - Keith Frey, V.P. Quality & Regulatory Affairs SECTION 2 - PHYSICAL DATA BOILING POINT (Deg F) - Over 212 deg F
VAPOR PRESSURE (mm Hg) - NA
VAPOR DENSITY (air=1) - NA
SOLUBILITY IN WATER - Complete SPECIFIC GRAVITY (H20=1) - 1.02 VOLATILE BY VOLUME - 90% EVAPORATION RATE (H2O=1) - <1 APPEARANCE & ODOR: Clear, slightly colored liquid without odor SECTION 3 - FIRE AND EXPLOSION DATA FLASH POINT - None EXTINGUISHING MEDIA: This product is not combustible. SPECIAL FIRE FIGHTING PROCEDURES: Protective clothing and self-contained breathing apparatus should be worn by firefighters in areas where product is stored. Water spray, foam, dry chemical, or carbon dioxide may be used in areas where product is stored. UNUSUAL FIRE AND EXPLOSION HAZARDS: None NFPA HAZARD CLASSIFICATION: DEGREE OF HAZARD

Health (Blue) - 1 4=Extreme Flammability (Red) - 0 3=High Reactivity (Yellow) - 0 2=Moderate 1=Slight 0=Insignficant

erial Safety Data Sheet for CLEPO NICKEL PURIFIER CA

page: 1

# SECTION 4 - REACTIVITY DATA

\_\_\_\_\_\_

BILITY: Stable

CONDITIONS TO AVOID: NA

## INCOMPATIBILITY:

Strong oxidizers

## HAZARDOUS DECOMPOSITION PRODUCTS:

None expected

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: NA

## SECTION 5 - HAZARDOUS COMPONENTS

\_\_\_\_\_\_\_

PAINTS, PRESERVATIVES, AND SOLVENTS:

ΔM

NA

ALLOYS AND METALLIC COATINGS:

## HAZARDOUS COMPONENTS

CAS NUMBER TLV PEL LD50 %

NONE

TLV = Mg/M3 - PEL = Mg/M3 - LD50 = oral, rat, Mg/Kg - NF = None Found

- The indicated material, if any, is listed as a carginogen or potential carginogen by one or more of the following: National Toxicology Program, I.A.R.C. Monographs, OSHA.
- \*\* The indicated material, if any, does not have an established TLV, but does appear on one or more of the following states hazardous substance lists: Connecticut, Illinois, Michigan, Maine, Massachusetts, Minnesota, New Hampshire, New Jersey, New York, Oregon, Rhode Island, West Virginia, and Wisconsin, and is present in this product in amounts greater than 1%.
- & The indicated material, if any, is subject to the reporting requirements of SARA Title III, Section 313

SECTION 6 - SPILL, LEAK, AND DISPOSAL PROCEDURES

SECTION 6 - SPILL, LEAK, AND DISPOSAL PROCEDURES

## SPILL & LEAK PROCEDURES:

Liquids should be contained and adsorbed with a suitable adsorbent, or flushed to the waste treatment area. Flush area with plenty of water. Avoid all personal contact.

## WASTE DISPOSAL METHODS:

Waste solution should not be discharged into sewers or streams. Solution should first be neutralized to a locally acceptable pH, and then well diluted with water. Depending on usage and locality, may also require precipitation and filtration of heavy metals. Otherwise, contact local

rial Safety Data Sheet for CLEPO NICKEL PURIFIER CA page: 2

=======================================	SECTION	6 - ====	SPILL,	LEAF	===: (, ; ===:	==== AND ====	DISP	OSAL I	PROCEDURES	continued	
waste	disposal	. coi	ntracto:	r.							
			SECT	ION 7	7 –	HE <i>A</i>	LTH	HAZARI	DATA		

## ROUTES OF EXPOSURE

INHALATION: Inhaling mist or spray is irritating to the upper respiratory tract and depending on the severity of exposure, may cause tissue damage. May also cause a decrease in alertness.

**SKIN CONTACT:** This product is irritating to tissues contacted and may cause skin damage.

**SKIN ABSORPTION:** See SKIN CONTACT above.

EYE CONTACT: This product is irritating to eye tissues on contact. May cause permanent eye damage.

INGESTION: This product, if swallowed, will be irritating to the mouth,
 throat, and stomach.

## EFFECTS OF OVEREXPOSURE

ACUTE: Irritating to all body tissues with which it comes in contact.

CHRONIC: Repeated or prolonged exposure may cause dermatitis.

EMERGENCY AND FIRST AID PROCEDURES

EYES: IMMEDIATELY flush eyes with large amounts of water for at least 15 minutes, holding lids apart to ensure flushing of the entire surface. Washing eyes within 1 minute is essential to achieve maximum effectiveness. k medical attention immediately.

SKIN: Immediately wash contaminated areas with plenty of water for 15 minutes. Remove contaminated clothing and footwear, and wash clothing before reuse. Discard any clothing that can not be decontaminated. Seek medical attention immediately.

INHALATION: Get person out of contaminated area to fresh air. If breathing has stopped, resuscitate and administer oxygen if readily available. Seek medical attention immediately.

INGESTION: NEVER give anything by mouth to an unconscious person. If swallowed, do not induce vomiting. Give large quantities of water. If vomiting occurs spontaneously, keep airway clear. Seek medical attention immediately.

Material Safety Data Sheet for CLEPO NICKEL PURIFIER CA page: 3

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## SECTION 8 - SPECIAL HANDLING PROCEDURES

I PIRATORY: Respiration protection is not required under normal use. Use NIOSH/MSHA approved respirator where mist or spray may be generated above the TLV limit.

**VENTILATION:** Use adequate local exhaust ventilation where mist or spray may be generated, to maintain level below the TLV limit.

GLOVES: Impervious gloves should be worn (ex. rubber or neoprene).

EYES: Chemical safety goggles and/or face shield.

OTHER: Chemically resistant shoes and apron. Safety showers and eyewash facilities should be accessible. All contaminated clothing should be washed with soap and water, and dried before reuse.

## SECTION 9 - SPECIAL PRECAUTIONS

## 

## HANDLING AND STORAGE PRECAUTIONS:

Avoid contact with skin and eyes. Wash thoroughly after handling material. Store in a cool, dry area, in a closed container when not being used. OTHER PRECAUTIONS:

Keep container tightly closed when not in use. Wash thoroughly after handling. Containers, even those that have been emptied, will retain product residue and vapors. Always obey hazard warnings and handle empty containers as if they were full. Containers must not be used for any other purpose.

The information herein is based on technical data that is believed to be reliable. It is intended for use by persons having technical skill and at their own discretion and risk. Since conditions of use are outside our control, we make no warrenties, expressed or implied, and assume no liability in connection with the use of this information.

Material Safety Data Sheet for CLEPO NICKEL PURIFIER CA

## MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION DATA

\_\_\_\_\_\_\_

Forest Street, Kearny, NJ 07032

Emergency Telephone Numbers: CHEMTREC 800-424-9300 (24HR)

8:00 AM - 5:00 PM EST 201-991-4174 Information

CLEPO NICKEL WETTER AG-1

D.O.T. HAZARD CLASS - Non-DOT Regulated Effective Date:
CHEMICAL FAMILY - Nickel Brightener 09-08-92

CHEMICAL NAME/SYNONYMS - CLEPO NICKEL WETTER AG-1

FORMULA - Mixture
MSDS REVIEWED BY - Keith Frey, V.P. Quality & Regulatory Affairs

## SECTION 2 - PHYSICAL DATA

BOILING POINT (Deg F) - Over 212 deg F VAPOR PRESSURE (mm Hg) - NA

VAPOR DENSITY (air=1) - NA SOLUBILITY IN WATER - Complete

SPECIFIC GRAVITY (H20=1) - 1.01

VOLATILE BY VOLUME - NA

EVAPORATION RATE (H2O=1) - <1

## APPEARANCE & ODOR:

Clear liquid with slight soapy odor

SECTION 3 - FIRE AND EXPLOSION DATA

FLASH POINT - None

## EXTINGUISHING MEDIA:

This product is not combustible.

## SPECIAL FIRE FIGHTING PROCEDURES:

Protective clothing and self-contained breathing apparatus should be worn by firefighters in areas where product is stored. Water spray, foam, dry chemical, or carbon dioxide may be used in areas where product is stored.

## UNUSUAL FIRE AND EXPLOSION HAZARDS:

None

## NFPA HAZARD CLASSIFICATION:

DEGREE OF HAZARD \_\_\_\_\_\_\_

Health (Blue) - 1

4=Extreme

Flammability (Red) - 0

3=Hiqh

Reactivity (Yellow) - 0

2=Moderate

1=Slight

0=Insignficant

N erial Safety Data Sheet for CLEPO NICKEL WETTER AG-1

page: 1

# SECTION 4 - REACTIVITY DATA

BILITY: Stable

CONDITIONS TO AVOID: NA

INCOMPATIBILITY:

Strong oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS:

None expected

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: NA

SECTION 5 - HAZARDOUS COMPONENTS

PAINTS, PRESERVATIVES, AND SOLVENTS:

NA

NA

ALLOYS AND METALLIC COATINGS:

HAZARDOUS COMPONENTS

CAS NUMBER TLV PEL LD50 %

NONE

TLV = Mg/M3 - PEL = Mg/M3 - LD50 = oral, rat, Mg/Kg - NF = None Found

- The indicated material, if any, is listed as a carginogen or potential carginogen by one or more of the following: National Toxicology Program, I.A.R.C. Monographs, OSHA.
- \*\* The indicated material, if any, does not have an established TLV, but does appear on one or more of the following states hazardous substance lists: Connecticut, Illinois, Michigan, Maine, Massachusetts, Minnesota, New Hampshire, New Jersey, New York, Oregon, Rhode Island, West Virginia, and Wisconsin, and is present in this product in amounts greater than 1%.
- & The indicated material, if any, is subject to the reporting requirements of SARA Title III, Section 313

SECTION 6 - SPILL, LEAK, AND DISPOSAL PROCEDURES

## SPILL & LEAK PROCEDURES:

Liquids should be contained and adsorbed with a suitable adsorbent, or flushed to the waste treatment area. Flush area with plenty of water. Avoid all personal contact.

## WASTE DISPOSAL METHODS:

Waste solution should not be discharged into sewers or streams. Solution should first be neutralized to a locally acceptable pH, and then well diluted with water. Depending on usage and locality, may also require precipitation and filtration of heavy metals. Otherwise, contact local

erial Safety Data Sheet for CLEPO NICKEL WETTER AG-1 page: 2

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	SECTION	6 -	SPILL,	LEAK,	AND	DISPOSAL	PROCEDURES	continued	
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waste	disposal	. CO1	ntracto	c.					
=======	=======	====			====			=======================================	
			SECT	ION 7	- HE	ALTH HAZA	RD DATA		

## ROUTES OF EXPOSURE

INHALATION: Inhaling mist or spray is irritating to the upper respiratory tract and depending on the severity of exposure, may cause tissue damage. May also cause a decrease in alertness.

**SKIN CONTACT:** This product is irritating to tissues contacted and may cause skin damage.

**SKIN ABSORPTION:** See SKIN CONTACT above.

EYE CONTACT: This product is irritating to eye tissues on contact. May cause permanent eye damage.

INGESTION: This product, if swallowed, will be irritating to the mouth, throat, and stomach.

## EFFECTS OF OVEREXPOSURE

ACUTE: Irritating to all body tissues with which it comes in contact.

CHRONIC: Repeated or prolonged exposure may cause dermatitis.

EMERGENCY AND FIRST AID PROCEDURES

EYES: IMMEDIATELY flush eyes with large amounts of water for at least 15 minutes, holding lids apart to ensure flushing of the entire surface. Whing eyes within 1 minute is essential to achieve maximum effectiveness. k medical attention immediately.

SKIN: Immediately wash contaminated areas with plenty of water for 15 minutes. Remove contaminated clothing and footwear, and wash clothing before reuse. Discard any clothing that can not be decontaminated. Seek medical attention immediately.

INHALATION: Get person out of contaminated area to fresh air. If breathing has stopped, resuscitate and administer oxygen if readily available. Seek medical attention immediately.

INGESTION: NEVER give anything by mouth to an unconscious person. If swallowed, do not induce vomiting. Give large quantities of water. If vomiting occurs spontaneously, keep airway clear. Seek medical attention immediately.

Material Safety Data Sheet for CLEPO NICKEL WETTER AG-1 page: 3

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## SECTION 8 - SPECIAL HANDLING PROCEDURES

I PIRATORY: Respiration protection is not required under normal use.
Use NIOSH/MSHA approved respirator where mist or spray may be generated above the TLV limit.

**VENTILATION:** Use adequate local exhaust ventilation where mist or spray may be generated, to maintain level below the TLV limit.

GLOVES: Impervious gloves should be worn (ex. rubber or neoprene).

EYES: Chemical safety goggles and/or face shield.

OTHER: Chemically resistant shoes and apron. Safety showers and eyewash facilities should be accessible. All contaminated clothing should be washed with soap and water, and dried before reuse.

\_\_\_\_\_\_\_

## SECTION 9 - SPECIAL PRECAUTIONS

## HANDLING AND STORAGE PRECAUTIONS:

Avoid contact with skin and eyes. Wash thoroughly after handling material. Store in a cool, dry area, in a closed container when not being used. DO NOT STORE with strong acids & oxidizers, chlorinated organic compounds. OTHER PRECAUTIONS:

Keep container tightly closed when not in use. Wash thoroughly after handling. Containers, even those that have been emptied, will retain product residue and vapors. Always obey hazard warnings and handle empty containers as if they were full. Containers must not be used for any other purpose.

The information herein is based on technical data that is believed to be reliable. It is intended for use by persons having technical skill and at their own discretion and risk. Since conditions of use are outside our control, we make no warrenties, expressed or implied, and assume no liability in connection with the use of this information.

Material Safety Data Sheet for CLEPO NICKEL WETTER AG-1 page: 4