GARDEN GROVE FIRE DEPARTMENT
REQUEST FOR RECORDS SEARCH

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

***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.

RECORDS SEARCH REQUEST FOR THE FOLLOWING ADDRESS:

Name of business

11552 Anabel Avenue
Street address (one address per form) — Suite no.

Garden Grove | CA | 92843
City | State | Zip

Phase I Environmental Site Assessment
Reason for Request

FIRE CODE ENFORCEMENT INFORMATION REQUESTED FOR:

Fire Code Violation History
- ☐ Current occupant
- ☐ Previous occupant

Permits
- ☐ Current permits
- ☐ All permits on file for address

Hazardous Materials Disclosure
- ☒ Current occupant
- ☒ Previous occupant

Environmental Records
- ☒ Underground storage tanks

Other
- ☐ Specify: _____

INFORMATION REQUESTED BY:

Amada Lagunas | 626.228.7361 | 800.385.7126
Name of requester | Phone number | Fax number

Fulcrum Resources Environmental
Requester's company name

2610 Gardi Street
Requester's street address

Duarte | CA | 91010
City | State | Zip

Would you like your information: ☐ Faxed ☐ Mailed ☒ Held for pick-up (payment at time of pick up)

FOR OFFICIAL USE ONLY

Date received: _____ Records found: ☐ Yes ☐ No

Trade secret: ☐ Yes ☐ No

Requester notified by: _____ Information released: _____

GARDEN GROVE

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. 11552 ANABEL Ave

		Max Daily Amount	Not Used/Used
Common Name		500 Gallons	☐ ☐
Chemical Name	WASTE METAL HYDROXIDE SLUDGE, 500GAL	Map 1 Grid D-9	Delete __ Modify __
Cas #	Location OUTSIDE-ADJACENT TO SOUTH WALL		

Common Name		1100 Pounds	☐ ☐
Chemical Name	WASTE METAL HYDROXIDE SLUDGE, 1,100GAL	Map 1 Grid D-9	Delete __ Modify __
Cas #	Location OUTSIDE- ADJACENT TO SOUTH FENCE		

Common Name	ACID ETCH 333	90 Gallons	☐ ☐
Chemical Name	SULFURIC ACID MIXTURE	Map 1 Grid E-7, [	Delete __ Modify __
Cas #	Location outside-south fence, inside-plating area		

Common Name	ACID SALT 340	90 Gallons	☐ ☐
Chemical Name	SODIUM HYDROGEN SULFATE MIXTURE	Map 1 Grid C-9,	Delete __ Modify __
Cas #	Location outside-adjacent to south fence, inside-in plating area		

Common Name	ALUM CHROME STRIP	250 Gallons	☐ ☐
Chemical Name	SODIUM HYDROXIDE MIXTURE	Map 1 Grid C-9,	Delete __ Modify __
Cas #	Location OUTSIDE-ADJANCENT TO SOUTH FENCE, INSIDE-PLATING AREA		

Common Name	CAUSTIC SODA 50% MIXTURE	100 Gallons	☐ ☐
Chemical Name	SODIUM HYDROXIDE	Map 1 Grid E-7, I	Delete __ Modify __
Cas #	Location OUTSIDE-SOUTH WALL OF BLD, INSIDE-IN PLATING AREA		

Common Name	CHROME STRIP	80 Gallons	☐ ☐
Chemical Name	MURIATIC ACID MIXTURE	Map 1 Grid D-4,	Delete __ Modify __
Cas #	Location WITHIN PLATING AREA		

Common Name	CHROMIC ACID SOLUTION	450 Gallons	☐ ☐
Chemical Name	CHROMIC ACID SOLUTION	Map 1 Grid D-4,	Delete __ Modify __
Cas # 1333-82-0	Location WITHIN PLATING AREA		

Common Name	CLEANER 220TT	250 Gallons	☐ ☐
Chemical Name	SODIUM HYDROXIDE MIXTURE	Map 1 Grid C-9,	Delete __ Modify __
Cas #	Location OUTSIDE-ADJACENT TO SOTH FENCE, INSIDE-IN PLATING AREA		

Common Name	CLEANER CH98	250 Gallons	☐ ☐
Chemical Name	SODIUM HYDROXIDE MIXTURE	Map 1 Grid C-9,	Delete __ Modify __
Cas # 1310-73-2	Location OUTSIDE-ADJACENT TO SOUTH FENCE, INSIDE-IN PLATING AREA		

Common Name	COPPER PLATE	1750 Gallons	☐ ☐
Chemical Name	COPPER PLATING SOLUTION	Map 1 Grid D-4,	Delete __ Modify __
Cas #	Location WITHIN PLATING AREA		

Common Name	MURIATIC ACID MIXTURE	20 Gallons	☐ ☐
Chemical Name	HYDROCHLORIC ACID	Map 1 Grid E-7, I	Delete __ Modify __
Cas #	Location OUTSIDE-COVERED AREA, INSIDE-WITHIN PLATING AREA		

Common Name	NICKEL PLATE	800 Gallons	☐ ☐
Chemical Name	NICKEL PLATING SOLUTION	Map 1 Grid D-4,	Delete __ Modify __
Cas #	Location WITHIN PLATING AREA		

Common Name	NICKEL PLATE	2800 Gallons	☐ ☐
Chemical Name	NICKEL PLATING SOLUTION	Map 1 Grid D-4,	Delete __ Modify __
Cas #	Location WITHIN PLATING AREA		

400 D&S CUSTOM PLATING INC. 11552 ANABEL Ave

		Max Daily Amount	Not Used/Used
Common Name	NICKEL STRIKE	100 Gallons	☐ ☐
Chemical Name	NICKEL PLATING SOLUTION - 100GAL	Map 1 Grid D-4,	Delete __ Modify __
Cas #	Location WITHIN PLATING AREA		
Common Name	NICKEL STRIP	80 Gallons	☐ ☐
Chemical Name	SULFURIC ACID MIXTURE	Map 1 Grid D-4,	Delete __ Modify __
Cas #	Location WITHIN PLATING AREA		
Common Name	NITRIC STRIP	80 Gallons	☐ ☐
Chemical Name	NITRIC ACID MIXTURE	Map 1 Grid D-4,	Delete __ Modify __
Cas #	Location WITHIN PLATING AREA		
Common Name	SODIUM BIFLUORIDE	90 Gallons	☐ ☐
Chemical Name	SODIUM BIFLUORIDE	Map 1 Grid D-4,	Delete __ Modify __
Cas #	Location WITHIN PLATING AREA		
Common Name	SULFURIC ACID	30 Gallons	☐ ☐
Chemical Name	SULFURIC ACID	Map 1 Grid E-7	Delete __ Modify __
Cas #	7664-93-9 Location OUTSIDE-ADJACENT TO SOUTH WALL OF SHOP		
Common Name	WASTE NITRIC ACID	330 Gallons	☐ ☐
Chemical Name	WASTE NITRIC ACID MIXTURE	Map 1 Grid C-9	Delete __ Modify __
Cas #	Location OUTSIDE- ADJACENT TO SOUTH FENCE		
Common Name	WASTE WATER	500 Gallons	☐ ☐
Chemical Name	WASTE WATER	Map 1 Grid D-4,	Delete __ Modify __
Cas #	Location OUTSIDE- COVERED AREA, INSIDE-IN PLATING AREA		
Common Name	ZINCATE	90 Gallons	☐ ☐
Chemical Name	ZINCATE	Map 1 Grid D-4,	Delete __ Modify __
Cas #	Location WITHIN PLATING AREA		
Common Name	ZINCATE	450 Gallons	☐ ☐
Chemical Name	ZINCATE, 450GAL	Map 1 Grid D-4,	Delete __ Modify __
Cas #	Location WITHIN PLATING AREA		
Common Name	ZINCATE STRIP	90 Gallons	☐ ☐
Chemical Name	POTASSIUM MONOPENSULFATE	Map 1 Grid D-4,	Delete __ Modify __
Cas #	Location WITHIN PLATING AREA		

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 G DATE 2/2011

NEW BUSINESS ☐ YES ☐ NO UPDATE

PICK __ 4D __ BUSLIST __ CALARP: __ CUPA: __ GIS __

FEE

Revised 2/2007

FORM 1

CITY OF GARDEN GROVE FIRE DEPARTMENT

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

Hazardous Materials Business Information Form

BUSINESS INFORMATION

FACILITY # (Supplied by GGFD) 3 0 0 3 5	BEGINNING DATE 1	ENDING DATE 2	
BUSINESS NAME 4: D&S Custom Plating		BUSINESS PHONE 5: 714 537-5411	
BUSINESS SITE ADDRESS 6: 11552 ANABEL			
CITY 7: GARDEN GROVE	STATE 8: CA	ZIP 9: 92843-3707	
DUN & BRADSTREET 10: 92-815-1943	SIC CODE (4 DIGIT #) 11: 3471	FIRE DISTRICT 12	
COUNTY 13: ORANGE			
BUSINESS OPERATOR NAME 14: Doug Bush		OPERATOR'S PHONE 15: 714 537-5411	

BUSINESS OWNER

OWNER NAME 16: Doug Bush		OWNER PHONE 17: 714 537-5411
OWNER MAILING ADDRESS 18: 11552 ANABEL		
CITY 19: GARDEN GROVE	STATE 20: CA	ZIP 21: 92843-3707

ENVIRONMENTAL CONTACT

TACT NAME 22: Doug Bush		CONTACT PHONE 23: 714 537-5411
CONTACT MAILING ADDRESS 24: 11552 ANABEL		
CITY 25: GARDEN GROVE	STATE 26: CA	ZIP 27: 92843-3707

EMERGENCY CONTACTS

PRIMARY	SECONDARY
NAME 28: Susan L. Moon	NAME 33: DERRIKK NOLAND
TITLE 29: C.F.O.	TITLE 34: MANGER
BUSINESS PHONE 30: 714 537-5411	BUSINESS PHONE 35: 714 537-5411
24-HR. PHO 31	24- 36
PAGER # 32	PAGER # 37

ADDITIONAL LOCALLY COLLECTED INFORMATION

DESCRIBE THE TYPE OF BUSINESS OPERATION: 38: DECORATIVE chrome ELECTROPLATING		TOTAL # OF EMPLOYEES 39: 15
BILLING ADDRESS (IF DIFFERENT FROM ABOVE) 40		ATTENTION 41
PROPERTY OWNER NAME 42: Doug Bush	ADDRESS 43: 524 NEENO AVE. PLACENTIA	44

Certification: Based on my inquiry of those individuals responsible for obtaining the information, I certify under penalty of law that I have personally examined and am familiar with the information submitted and believe the information is true, accurate, and complete.

SIGNATURE OF OWNER/OPERATOR OR DESIGNATED REPRESENTATIVE 45: Doug Bush		DATE 46: 2-10-11
NAME OF SIGNER (print) 47: DOUG BUSH	NAME OF DOCUMENT PREPARER (print) 49: DERRIKK NOLAND	
TITLE OF SIGNER 48: CEO.	TITLE OF DOCUMENT PREPARER 50: MANGER	

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

CUPA

BUSINESS ACTIVITIES

FACILITY INFORMATION

I. FACILITY IDENTIFICATION

FACILITY ID# 3 0 [redacted] 0 3 5 [redacted] 1.

EPA ID # (Hazardous Waste Only) CAR 000140764 2.

BUSINESS NAME (Same as FACILITY NAME or DBA-Doing Business As) 3.

II. ACTIVITIES DECLARATION

NOTE: If you check YES to any part of this list, please submit the Business Owner/Operator Identification page.

Does your facility...		If Yes, please 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 CFR Parts 30, 40 or 70?	☐ YES ☐ NO 4.	✓ HAZARDOUS MATERIALS INVENTORY - CHEMICAL DESCRIPTION (Form 3)
B. UNDERGROUND STORAGE TANKS (USTs)		
1. Own or operate underground storage tanks?	☐ YES ☐ NO 5.	✓ UST FACILITY (Formerly SWRCB Form A) ✓ UST TANK (one page per tank) (Formerly Form B)
2. Intent to upgrade existing or install new USTs?	☐ YES ☐ NO 6.	✓ UST FACILITY ✓ UST TANK (one per tank) ✓ UST INSTALLATION - CERTIFICATE OF COMPLIANCE (one page per tank) (Formerly Form C)
3. Need to report closing a UST?	☐ YES ☐ NO 7.	✓ UST TANK (closure portion-one page per tank)
C. ABOVE GROUND PETROLEUM STORAGE TANKS (ASTs)		
Own or operate ASTs above these thresholds: - any tank capacity is greater than 660 gallons, or - the total aggregate capacity for the entire facility (ASTs, drums and portable containers) greater than 1,320 gallons?	☐ YES ☐ NO 8.	✓ NO FORM REQUIRED TO CUPAS
D. HAZARDOUS WASTE		
1. Generate hazardous waste?	☐ YES ☐ NO 9.	✓ EPA ID NUMBER - provide at the top of this page
2. 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)
3. Treat hazardous waste on site?	☐ YES ☐ NO 11.	✓ ONSITE HAZARDOUS WASTE TREATMENT - FACILITY (Formerly DTSC Forms 1772) ✓ ONSITE HAZARDOUS WASTE TREATMENT - UNIT (one page per unit) (Formerly DTSC Forms 1772A,B,C,D and L)
4. Treatment subject to financial assurance requirements (for Permit by Rule and Condition Authorization)?	☐ YES ☐ NO 12.	✓ CERTIFICATION OF FINANCIAL ASSURANCE (Formerly DTSC Form 1232)
5. Consolidate hazardous waste generated at a remove site?	☐ YES ☐ NO 13.	✓ REMOTE WASTE/CONSOLIDATION SITE ANNUAL NOTIFICATION (Formerly DTSC Form 1196)
6. Need to report the closure/removal of a tank that was classified waste and cleaned onsite?	☐ YES ☐ NO 14.	✓ HAZARDOUS WASTE TANK CLOSURE CERTIFICATION (Formerly DTSC Form 1249)
E. LOCAL REQUIREMENTS		
Cal-ARP: California Accidental Release Prevention Program *H&SC Chapter 6.95, Article 2, §25531 et seq* — Stationary Source with more than a Threshold Quantity of a Regulated Substance in a Process	☐ YES ☐ NO 15.	✓ REGULATED SUBSTANCE REPORTING FORM (Orange County CUPA)

1.0 PURPOSE, REVIEW AND AMENDMENT

1.1 General Business Information

Name of Business: D & S Custom Plating		
Address: 11552 ANABEL		
City: GARDEN GROVE	**State:** CA	**Zip:** 92843
Phone No.:(714) 537-5411	**Emergency Phone No.**	
Description of Business: Polishing & Plating		**SIC No.:** 3471
No. of Employees:	**Operating Hrs.:** 16	**Days per Week:** 5
Business Owner: Douglas Bush	**Phone No.:**(714) 537-5411	
Property Owner: Douglas Bush	**Phone No.:**(714) 537-5411	
EPA ID No.:		

NATURE OF HAZARDS OR EVENTS THIS PLAN WILL BE USED FOR:

FIRES
Chemical Spills

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.

1.3 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.

Douglas Bush — Printed Name

C.E.O. — Title

Doug Bush — Signature

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.	B	6/2001
Plan reviewed, no changes required.	B	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.	C	01/11/10
Plan reviewed, no changes made.	C	01/14/11

2.0 EMERGENCY SITUATIONS & REPORTING

2.1 Discovery of an incident.

Detection equipment used to identify a release:
Visual

Periodic monitoring procedure used to identify a release:
☑ Daily inspection of waste treatment & storage systems.
☑ Weekly inspection of hazardous waste storage areas.
☑ Quarterly Storm Water Pollution Prevention Plan inspections.
☑ Storm water sampling.
☑ Periodic inspection of process tanks.
☑ Periodic inspection of secondary containment systems.
☐
☐

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	
CARMELO 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:

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) (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.**

2.5 **Arrangement for Emergency Services.** To familiarize our local fire department, 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)

Emergency Coordinator

Name: Doug Bush		
Home Phone No	Cell ~~Pager~~ No	
Address:		
City	State: CA	Zip

Alternate Emergency Coordinator

Name: DERRIKK NOLAND		
Home Phone No.: ( ) NONE	Cell ~~Pager~~ No	
Address:		
City:	State: CA	Zip:

Alternate Emergency Coordinator

Name: SUSAN MOON		
Home Phone No.	Cell ~~Pager~~ No	
Address:		
City:	State: CA	Zip:

Alternate Emergency Coordinator

Name:		
Home Phone No.: ( )	Pager No.: ( )	
Address:		
City:	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.

3.2.15 **Additional 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	❒
❒	❒
❒	❒

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
❒	❒
❒	❒

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.

4.2 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:	**Phone No.: ( )**	
Address:		
City:	**State: CA**	**Zip:**

4.3 First Aid. Members of the Emergency Action Team will be trained in First Aid and CPR.

4.4 Hazardous Material Disposal Company

Company:		
Phone No.: ( )	**Emergency Phone No.: ( )**	
Address:		
City:	**State: CA**	**Zip:**

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.
3. 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.

5.3 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
   c. 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.

Description: FIRE EXTINGUISHER	**Date:**
Where required:	
Location:	
Outline of Capabilities:	

Description: SPILL CONTROL EQUIPMENT	**Date:**
Where required:	
Location:	
Outline of Capabilities:	

Description: INTERNAL COMMUNICATION SYSTEM	**Date:**
Where required:	
Location:	
Outline of Capabilities:	

Description: EXTERNAL COMMUNICATION SYSTEM	**Date:**
Where required:	
Location:	
Outline of Capabilities:	

Description: ALARM SYSTEM	**Date:**
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:	

Description: PERSONAL PROTECTIVE EQUIPMENT	Date:
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:	
Outline of Capabilities:	

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Where required:	
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Outline of Capabilities:	

Description:	Date:
Where required:	
Location:	
Outline of Capabilities:	

7.2 Emergency Equipment Location Map

8.0 EMERGENCY RESPONSE PLANNING

8.1 **Emergency Planning.** The emergency planning process shall consider the following:

- ❒ Identification of foreseeable hazardous material and waste incidents.
- ❒ Determination of the hazards associated with each incident and the appropriate protective equipment required.
- ❒ 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 **Incident Response Planing Guidelines.** In the event of a fire, explosion, spill, release, or threatened release of a hazardous material or hazardous waste, employees in the immediate area and/or maintenance personnel who have been trained 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?**
   - ☆ **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:

   a. **Name and telephone number of person making report.**

   b. **Name and address of facility.**

   c. **Time and type of incident.**

   d **Name and quantity of material(s) involved, to the extent known.**

   e. **The extent of injuries, if any.**

   f. **The possible hazards to human health, or the environment, outside 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

Principle Hazards: ❒ Flammable/Combustible (Flash Point:_____ Boiling Point:_____LEL:_____)
❒ Toxic (PEL:_____ STEL:_____IDHL:_____)
❒ Reactive (Conditions:_____)
❒ Other:

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: ❒ Change Out Frequency:

Skin/Body Protective Ensembles: ❒ Level A (Encapsulated) ❒ Level B ❒ Level C
Material: ❒ Tyvek ❒ Saranex (Coated) ❒ Other: ❒ NOT REQUIRED

Gloves: ❒ Nitrile ❒ Other: ❒ NOT REQUIRED

Symptoms of Over-Exposure:

First Aid:

INCIDENT RESPONSE FOLLOW UP / EVALUATION

Date:	Time:	Location
Emergency Coordinator:		
Type of Incident:		
Description of Incident:		

MATERIAL(S) INVOLVED

Material(s)	Quantity

INJURIES

Injuries ❒ NO ❒ YES – Extent of Injuries:

HAZARD ASSESSMENT

Any actual or potential hazard to human life or the environment? ❒ NO ❒ YES
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? ❒ YES

Material	Quantity	Disposition

EMERGENCY RESPONSE PROCEDURE

ELEMENTS OF EMERGENCY RESPONSE

1. ☐ *EMERGENCY COORDINATOR NOTIFIED*
2. ☐ *SIZE UP BY EMERGENCY COORDINATOR*
   ☐ *OFF-SITE NOTIFICATION*
3. ☐ *PREPARE PLAN OF ACTION*
4. ☐ *SITE CONTROL PLAN IMPLEMENTED*
5. ☐ *SELECT & USE CORRECT PPE*
6. ☐ *RESCUE/EVACUATE AS NECESSARY*
7. ☐ *INITIAL RESPONSE ACTIONS (CONTAINMENT, ETC.)*
8. ☐ *ADVANCED CONTROL ACTIONS*
9. ☐ *CLEANUP/DECONTAMINATE*
10. ☐ *FOLLOW-UP REPORTS & INCIDENT RESPONSE CRITIQUE*

DATE:	LOCATION:

INCIDENT:

MATERIALS SPILLED/RELEASED:

VOLUME OF MATERIAL:

HAZARDS OF MATERIAL:

EMERGENCY RESPONSE PROCEDURE DEVELOPMENT

ACTION TO BE TAKEN	WHO	SPECIAL HAZARDS	EQUIPMENT REQUIRED (PPE/OTHER

GARDEN GROVE FIRE DEPARTMENT
ENVIRONMENTAL PROTECTION SECTION
11301 Acacia Parkway
Garden Grove, CA 92840
Business: 714 741-5600 Haz Mat: 714 741-5636

Hazardous Materials Business Emergency Plan And Inventory Certification Statement

Business Name: D & S Custom Plating **Telephone:** 714 537-5411

Site Address: 11552 Anabel Garden Grove CA **Zip Code:** 92843

The California Health & Safety Code, Division 20, Chapter 6.95, Section 25505(c) and Section 25503.3(c) provide the following:

A business that handles hazardous materials shall review AND certify their Hazardous Materials Business Emergency Plan (HMBEP) once every three years from the date of acceptance by the Garden Grove Fire Department. A business may comply with the annual chemical inventory reporting requirement by submitting a certification statement to the Garden Grove Fire Department. **A business may not utilize this certification to meet the annual inventory submission requirements of the Emergency Planning and Community Right to Know Act (Section 11022, Title 42, United States Code).**

Note: A business may comply with the annual inventory reporting requirements using this certification statement if both of the following apply:

1. The business has previously filed an inventory reporting form and;
2. The business attests to the following:
   - The information contained in the annual inventory form most recently submitted to the Garden Grove Fire Department is complete, accurate, and up to date.
   - There has been no change in the quantity of any hazardous material as reported in the most recently submitted annual inventory form.
   - No hazardous material subject to the inventory requirements is being handled that is not listed on the most recently submitted annual inventory form.

THIS IS TO CERTIFY THAT THE HMBEP AND/OR CHEMICAL INVENTORY HAS BEEN REVIEWED. (Please check applicable boxes.)

☑ No changes are required to the HMBEP submitted to the Garden Grove Fire Department.

☐ All the necessary changes/revisions have been made to the HMBEP. The changes/revisions are attached to this certification.

☑ No changes are required to the chemical inventory that was previously on file with the Garden Grove Fire Department.

☐ All the necessary changes/revisions have been made to the chemical inventory. The changes/revisions are attached to this certification.

AS AN AUTHORIZED REPRESENTATIVE, I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED AND BELIEVE THE INFORMATION IS TRUE, ACCURATE, AND COMPLETE.

Print Name Doug Rush Signature Doug Rush

Job Title C.E.O. Date 3-5-08

Fire Department Inspector R. Walden ID # 3703

White Copy – Return to Garden Grove Fire Department

Yellow Copy – Retain for Business Records

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

Date: 3/5/08

Address: 11552 Anabel Garden Grove CA File No: _____

Occupant or DBA: D&S Custom Plating

Owner/Manager: Doug Bush Phone: 714 5325411

☐ California Health and Safety Code, Section 6.95, you are required to properly complete the Business Emergency Plan (BMP) packet. You are required to return the BEP packet, Hazardous Materials Disclosure Forms, and all material safety data sheets within fifteen (15) days to the Garden Grove Fire Department. HazMat Coord. (714) 741-5636

An inspection at the above location/occupancy revealed the following violation(s):

Violation(s): CA Health and Safety Code Chapter 6.95, Article 1 and Title 19, §2729 et seq., California Code of Regulations (CCR)

- ☐ Complete Hazardous Materials Disclosure packet, HSC Chapter 6.95, Title 19 Div 2 Chapter 3, CFC 8001.3.2
- ☐ Failure to submit a Business Emergency Plan. [HSC 25505(a)(1)]; CFC 8001.3.2
- ☐ Failure to review and/or revise the Business Emergency Plan as required [HSC 25505(b)&(c)]
- ☐ Chemical inventory is incomplete and/or requires update. [HSC 25509]
- ☐ The Emergency Response Plan is inadequate and/or does not address the following issues and shall be immediately revised and resubmitted: [HSC 25504(b)&(c)]
  - ☐ Notification Procedures
  - ☐ Mitigation Procedures
  - ☐ Evacuation Procedures
  - ☐ Employee Training
- ☐ Business Owner/Operator page is incomplete or needs to be updated. [HSC 25509]
- ☐ Failure to provide name, title, and 24-hour number of emergency contact(s). [HSC 25509(a)(7)]
- ☐ Site Map is incomplete or insufficient. [HSC 25509]
- ☐ Failure to report a release or threatened release. [HSC 25507]
- ☐ Failure to report a change in business or chemical inventory within 30 days of the following event(s): [HSC 25510]
  - ☐ 100% or more increase in the quantity of a disclosed material
  - ☐ Addition of a previously undisclosed material
  - ☐ Change in business address
  - ☐ Change in business ownership
  - ☐ Change of business name
  - ☐ Other (See comments below):

Violation(s): California Fire Code 2001, Articles 79 & 80, Title 19 Part 9, California Code of Regulations (CCR)

- ☐ Provide for secondary containment for hazardous materials liquids and solids (CFC 8003.1.3.3)
- ☐ Provide spill control for hazardous materials liquids (CFC 8003.1.3.2)
- ☐ Provide approved cabinet if more than 10 gallons of flammable liquids (CFC 7902.5)
- ☐ Provide placarding and signs (NFPA 704, CFC Article 79 §7901.9, Article 80 §8001.7-8)
- ☑ **No Violations Found**

Additional Violations and/or Notes:

* 714-876 3840 Susy Bush Emergency Cell to contact

Responsible Party: [signature] Re-inspection Date: _____

The above are violations of California law and require immediate correction. Failure to correct violations is subject to civil penalties.

Fire Dept. Inspector: R. Walden ID #: 3703

Condition Upon Re-inspection: Date:

CUPA COPY

FIRE DEPT. COPY

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:

Pacific Management Services
Environmental Compliance Specialists

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

I. FACILITY IDENTIFICATION

FACILITY ID #	3	0		0	3	5								1 EPA ID # (Hazardous Waste Only) CAL 000 196 560 2

BUSINESS NAME (Same as FACILITY NAME or DBA- Doing Business As): BUSINESS SITE ADDRESS 3

D & S CUSTOM PLATING, INC. 11552 ANABEL / GARDEN GROVE, CA 92843 - 3707

II. ACTIVITIES 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, please 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)		UST FACILITY (Formerly SWRCB Form A) UST TANK (one page per tank) (Formerly Form B)
1. Own or operate underground storage tanks?	☐ YES ☒ NO 5	
2. Intend to upgrade existing or install new USTs?	☐ YES ☒ NO 6	UST FACILITY UST TANK (one per tank) UST INSTALLATION - CERTIFICATE OF COMPLIANCE (one page per tank) (Formerly Form C)
3. Need to report closing a UST?	☐ YES ☒ NO 7	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 --the total aggregate capacity for the entire facility (ASTs, drums and portable containers) greater than 1,320 gallons?	☒ YES ☐ NO 8	NO FORM REQUIRED TO CUPAs
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) ONSITE HAZARDOUS WASTE TREATMENT - UNIT (one page per unit) (Formerly DTSC Forms 1772 A,B,C,D and L)
▪ Treatment subject to financial assurance requirement (for Permit by Rule and Conditional Authorization)?	☐ YES ☒ NO 12	CERTIFICATION OF FINANCIAL ASSURANCE (Formerly DTSC Forms 1232)
▪ Consolidate hazardous waste generated at a remote site?	☐ YES ☒ NO 13	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* --- Stationary Source with more than a Threshold Quantity of a Regulated Substance in a Process	☐ YES ☒ NO 15	REGULATED SUBSTANCE REPORTING FORM (Orange County CUPA)

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

FACILITY #	BEGINNING DATE (1)	ENDING DATE (2)
3 0 0 3 5	01 / 01 / 02	12 / 31 / 02

BUSINESS NAME (4)	D & S CUSTOM PLATING, INC.			BUSINESS PHONE (5)	(714) 537-5411
SITE ADDRESS (6)	11552 ANABEL				
CITY (7)	GARDEN GROVE	STATE (8)	CA	ZIP (9)	92843 - 3707
DUN & BRADSTREET (10)	92 - 815 - 1943			SIC CODE (4 DIGIT #) (1 1)	3471
COUNTY	ORANGE				
OPERATOR NAME (12)	DOUGLAS L. BUSH			OPERATOR PHONE (13)	(714) 537-5411

BUSINESS OWNER INFORMATION

OWNER NAME (14)	DOUGLAS L. BUSH			OWNER PHONE (15)	(714) 537-5411
OWNER MAILING ADDRESS (16)	11552 ANABEL				
CITY (17)	GARDEN GROVE	STATE (18)	CA	ZIP (19)	92843 - 3707

ENVIRONMENTAL CONTACT

CONTACT NAME (20)	DOUGLAS L. BUSH			CONTACT PHONE (21)	(714) 537-5411
MAILING ADDRESS (22)	11552 ANABEL				
CITY (23)	GARDEN GROVE	STATE (24)	CA	ZIP (25)	92843 - 3707

EMERGENCY CONTACTS

Primary		Secondary	
NAME (26)	DOUGLAS L. BUSH	NAME (31)	SUSAN L. MOON
TITLE (27)	C.E.O.	TITLE (32)	C.F.O.
BUSINESS PHONE (28)	(714) 537-5411	BUSINESS PHONE (33)	(714) 537-5411
24-HOUR PHONE (29)	(714) 993-5181	24-HOUR PHONE (34)	(714) 993-5181
PAGER# (30)		PAGER# (35)	

(36) ADDITIONAL LOCALLY COLLECTED INFORMATION

A. Type of Business Operation: DECORATIVE CHROME ELECTROPLATING
B. Hours of Business Operation: MON - FRI, 6 AM - 8 PM
C. Total Number of Employees: 15
D. Property Owner Name: DOUGLAS L. BUSH Address: 524 NENNO AVENUE / PLACENTIA
E. Schools, hospitals within 1,000 ft. of business property: y ☐ N ☒

Certification: Based on my inquiry of those individuals responsible for obtaining the information, I certify under penalty of law that I have personally examined and am familiar with the information submitted and believe the information is true, accurate, and complete.

SIGNATURE OF OWNER/OPERATOR OR DESIGNATED REPRESENTATIVE (37)	DATE (38)	SIGNATURE OF DOCUMENT PREPARER (41)
Douglas L Bush	01 / 14 / 03	L. Dean Lowe
NAME OF SIGNER (print) (39)		NAME OF DOCUMENT PREPARER (print) (42)
DOUGLAS L. BUSH		L. DEAN LOWE, Ph.D. / PACIFIC MGMT SVCS.
TITLE OF SIGNER (print) (40)		TITLE OF DOCUMENT PREPARER (print)) (43)
C.E.O. / OWNER		ENVIRONMENTAL COMPLIANCE CONSULTANT

CALIFORNIA CHEMICAL INVENTORY FORM
DESCRIPTION PAGE

FORM 3

(1) ☐ ADD ☐ DELETE ☒ REVISE

(2) PAGE 3 OF 26

BUSINESS NAME (3): D & S CUSTOM PLATING, INC.

CHEMICAL LOCATION (Address, Area, Building, etc.) (4): 1) OUTSIDE, ADJACENT SO. FENCE; 2) INSIDE, IN PLATING AREA

(5) CONFIDENTIAL LOCATION EPCRA ☐YES ☒NO

MAP # (if more than one) (6): 1 of 1

GRID# (FROM MAP) (7): E-7; D-4; D-5; D-6

CHEMICAL NAME (8): SULFURIC ACID MIXTURE

COMMON NAME (9): ACID ETCH 333

CAS # (10): Mixture

TRADE SECRET (11) * IF EPCRA SEE INSTRUCTIONS: ☐YES ☒NO

AN EHS CHEMICAL (12): ☐YES ☒NO

* IF EHS BOX IS 'YES' ALL AMOUNTS MUST BE LBS

FIRE CODE HAZARD CLASSES (13):

(36) FACILITY ID# 30 035

TYPE (14): ☐PURE ☒MIXTURE ☐WASTE

PHYSICAL STATE (17): ☐SOLID ☒LIQUID ☐GAS

RADIOACTIVE (15): ☐YES ☒NO CURIES

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 ☐LBS ☐TONS

MAX DAILY AMT (23): 90

DAYS ON SITE (20): 365

* If EHS, amounts must be in lbs.

AVG DAILY AMT (24): 90

ANNUAL WASTE AMT (25):

STORAGE CONTAINER (26):

☐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.	

PRESSURE STORAGE (27): ☐AMBIENT ☒ABOVE AMBIENT ☐BELOW AMBIENT

STORAGE TEMPERATURE (28): ☐AMBIENT ☒ABOVE AMBIENT ☐BELOW AMBIENT ☐CRYOGENIC

(29) % WT	(30) HAZARDOUS COMPONETS	(31) EHS	(32) CAS #
(1) 9	Phosphoric Acid	☐YES ☒NO	7664-38-2
(2) 2	Sulfuric Acid	☒YES ☐NO	7664-93-9
(3)		☐YES ☐NO	
(4)		☐YES ☐NO	
(5)		☐YES ☐NO	

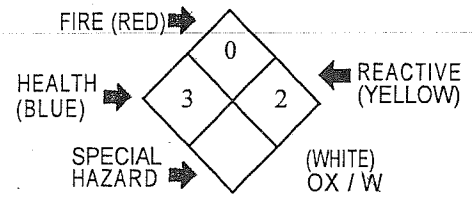
If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

(33) NFPA CLASSIFICATION

UN/DOT# 1760
Refer to shipping papers or MSDS

DOT HAZARD CLASS CORROSIVE
Refer to shipping papers or MSDS

NFPA 704 HAZARD DIAMOND



(34) EPCRA ☐YES ☒NO

X _____
(35) If *EPCRA, Please Sign Here*

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CALIFORNIA CHEMICAL INVENTORY FORM
DESCRIPTION PAGE

FORM 3

(1) ☐ ADD ☐ DELETE ☒ REVISE

(2) PAGE 4 OF 26

BUSINESS NAME (3): D & S CUSTOM PLATING, INC.

CHEMICAL LOCATION (4) (Address, Area, Building, etc.): 1) OUTSIDE, ADJACENT SO. FENCE; 2) INSIDE, IN PLATING AREA

(5) CONFIDENTIAL LOCATION EPCRA ☐YES ☒NO

MAP # (if more than one) (6): 1 of 1

GRID# (FROM MAP) (7): C-9; D-4; D-5; D-6

CHEMICAL NAME (8): SODIUM HYDROGEN SULFATE MIXTURE

COMMON NAME (9): ACID SALT 340

CAS # (10): Mixture

TRADE SECRET (11) * IF EPCRA SEE INSTRUCTIONS: ☐YES ☒NO

AN EHS CHEMICAL (12): ☐YES ☒NO

* IF EHS BOX IS 'YES' ALL AMOUNTS MUST BE LBS

FIRE CODE HAZARD CLASSES (13):

(36) FACILITY ID# 30 035

TYPE (14): ☐PURE ☒MIXTURE ☐WASTE

PHYSICAL STATE (17): ☐SOLID ☒LIQUID ☐GAS

RADIOACTIVE (15): ☐YES ☒NO CURIES

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 ☐LBS ☐TONS

* If EHS, amounts must be in lbs.

MAX DAILY AMT (23): 90

DAYS ON SITE (20): 365

AVG DAILY AMT (24): 90

ANNUAL WASTE AMT (25):

STORAGE CONTAINER (26):

☐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.	

PRESSURE STORAGE (27): ☒AMBIENT ☐ABOVE AMBIENT ☐BELOW AMBIENT

STORAGE TEMPERATURE (28): ☒AMBIENT ☐ABOVE AMBIENT ☐BELOW AMBIENT ☐CRYOGENIC

(29) % WT	(30) HAZARDOUS COMPONETS	(31) EHS	(32) CAS #
(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	

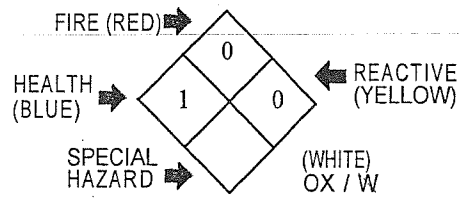
If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

(33) NFPA CLASSIFICATION

UN/DOT# 1759
Refer to shipping papers or MSDS

DOT HAZARD CLASS CORROSIVE
Refer to shipping papers or MSDS

NFPA 704 HAZARD DIAMOND



(34) EPCRA ☐YES ☒NO

X _____
(35) If *EPCRA, Please Sign Here*

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CALIFORNIA CHEMICAL INVENTORY FORM
DESCRIPTION PAGE

FORM 3

(1) ☐ ADD ☐ DELETE ☒ REVISE

(2) PAGE 5 OF 26

BUSINESS NAME (3): D & S CUSTOM PLATING, INC.

CHEMICAL LOCATION (4) (Address, Area, Building, etc.): 1) OUTSIDE, ADJACENT SO. FENCE; 2) INSIDE, IN PLATING AREA

(5) CONFIDENTIAL LOCATION EPCRA ☐YES ☒NO

MAP # (if more than one) (6): 1 of 1

GRID# (FROM MAP) (7): C-9; D-4; D-5; D-6

CHEMICAL NAME (8): SODIUM HYDROXIDE MIXTURE

COMMON NAME (9): ALUM CHROME STRIP

CAS # (10): Mixture

TRADE SECRET (11) * IF EPCRA SEE INSTRUCTIONS: ☐YES ☒NO

AN EHS CHEMICAL (12): ☐YES ☒NO

* IF EHS BOX IS 'YES' ALL AMOUNTS MUST BE LBS

FIRE CODE HAZARD CLASSES (13):

(36) FACILITY ID# 30 035

TYPE (14): ☐PURE ☒MIXTURE ☐WASTE

PHYSICAL STATE (17): ☐SOLID ☒LIQUID ☐GAS

RADIOACTIVE (15): ☐YES ☒NO CURIES

LARGEST CONTAINER (21): 250

FED HAZARD CATEGORIES (18): ☐FIRE ☐REACTIVE ☐PRESSURE RELEASE ☒ACUTE HEALTH ☐CHRONIC HEALTH

STATE WASTE CODE (19):

UNITS (22): ☒GAL ☐CU FT ☐LBS ☐TONS

* If EHS, amounts must be in lbs.

MAX DAILY AMT (23): 250

DAYS ON SITE (20): 365

AVG DAILY AMT (24): 250

ANNUAL WASTE AMT (25):

STORAGE CONTAINER (26):

☐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.	

PRESSURE STORAGE (27): ☒AMBIENT ☐ABOVE AMBIENT ☐BELOW AMBIENT

STORAGE TEMPERATURE (28): ☒AMBIENT ☐ABOVE AMBIENT ☐BELOW AMBIENT ☐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 ☐NO	

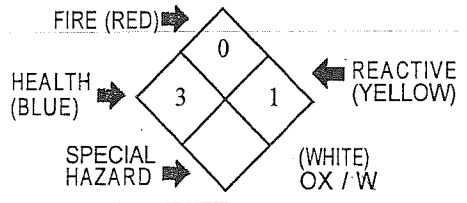
If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

(33) NFPA CLASSIFICATION

UN/DOT# 1759
Refer to shipping papers or MSDS

DOT HAZARD CLASS CORROSIVE
Refer to shipping papers or MSDS

NFPA 704 HAZARD DIAMOND



(34) EPCRA ☐YES ☒NO

X _____
(35) If *EPCRA, Please Sign Here*

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CALIFORNIA CHEMICAL INVENTORY FORM
DESCRIPTION PAGE

FORM 3

(1) ☐ ADD ☐ DELETE ☒ REVISE

(2) PAGE 6 OF 26

BUSINESS NAME (3): D & S CUSTOM PLATING, INC.

CHEMICAL LOCATION (Address, Area, Building, etc.) (4): 1) OUTSIDE, ADJACENT SO. WALL OF SHOP; 2) INSIDE, IN PLATING AREA

(5) CONFIDENTIAL LOCATION EPCRA ☐YES ☒NO

MAP # (if more than one) (6): 1 of 1

GRID# (FROM MAP) (7): E-7; D-4; D-5; D-6

CHEMICAL NAME (8): SODIUM HYDROXIDE

COMMON NAME (9): CAUSTIC SODA 50% MIXTURE

CAS # (10): Mixture

TRADE SECRET (11) * IF EPCRA SEE INSTRUCTIONS: ☐YES ☒NO

AN EHS CHEMICAL (12): ☐YES ☒NO

* IF EHS BOX IS 'YES' ALL AMOUNTS MUST BE LBS

FIRE CODE HAZARD CLASSES (13):

(36) FACILITY ID#: 30 035

TYPE (14): ☐PURE ☒MIXTURE ☐WASTE

PHYSICAL STATE (17): ☐SOLID ☒LIQUID ☐GAS

RADIOACTIVE (15): ☐YES ☒NO CURIES

LARGEST CONTAINER (21): 55

FED HAZARD CATEGORIES (18): ☐FIRE ☐REACTIVE ☐PRESSURE RELEASE ☐ACUTE HEALTH ☒CHRONIC HEALTH

STATE WASTE CODE (19):

UNITS (22): ☒GAL ☐CU FT ☐LBS ☐TONS

MAX DAILY AMT (23): 100

DAYS ON SITE (20): 365

* If EHS, amounts must be in lbs.

AVG DAILY AMT (24): 50

ANNUAL WASTE AMT (25):

STORAGE CONTAINER (26):

☐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.	

PRESSURE STORAGE (27): ☒AMBIENT ☐ABOVE AMBIENT ☐BELOW AMBIENT

STORAGE TEMPERATURE (28): ☒AMBIENT ☐ABOVE AMBIENT ☐BELOW AMBIENT ☐CRYOGENIC

(29) % WT	(30) HAZARDOUS COMPONETS	(31) EHS	(32) CAS #
(1) 50	Sodium Hydroxide	☐YES ☒NO	1310-73-2
(2) 50	Water	☐YES ☒NO	7732-18-2
(3)		☐YES ☐NO	
(4)		☐YES ☐NO	
(5)		☐YES ☐NO	

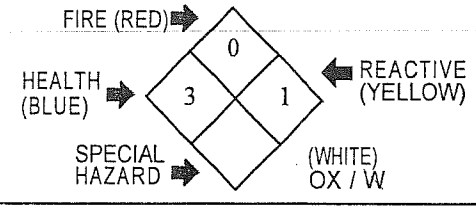
If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

(33) NFPA CLASSIFICATION

UN/DOT# 1824
Refer to shipping papers or MSDS

DOT HAZARD CLASS CORROSIVE
Refer to shipping papers or MSDS

NFPA 704 HAZARD DIAMOND



(34) EPCRA ☐YES ☒NO

X _____
(35) If *EPCRA, Please Sign Here*

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CALIFORNIA CHEMICAL INVENTORY FORM
DESCRIPTION PAGE

FORM 3

(1) ☐ ADD ☐ DELETE ☒ REVISE

(2) PAGE 7 OF 26

BUSINESS NAME	(3)	D & S CUSTOM PLATING, INC.
CHEMICAL LOCATION (Address, Area, Building, etc.)	(4)	IN PLATING AREA — (5) CONFIDENTIAL LOCATION EPCRA ☐YES ☒NO
MAP # (if more than one)	(6)	1 of 1 — GRID# (FROM MAP) (7) D-4; D-5; D-6

CHEMICAL NAME	(8)	MURIATIC ACID MIXTURE
COMMON NAME	(9)	CHROME STRIP
CAS #	(10)	Mixture
FIRE CODE HAZARD CLASSES	(13)	

TRADE SECRET (11) * IF EPCRA SEE INSTRUCTIONS ☐YES ☒NO

AN EHS CHEMICAL (12) ☐YES ☒NO

* IF EHS BOX IS 'YES' ALL AMOUNTS MUST BE LBS

(36) FACILITY ID# 30 035

TYPE	(14)	☐PURE ☒MIXTURE ☐WASTE
PHYSICAL STATE	(17)	☐SOLID ☒LIQUID ☐GAS
FED HAZARD CATEGORIES	(18)	☐FIRE ☐REACTIVE ☐PRESSURE RELEASE ☒ACUTE HEALTH ☐CHRONIC HEALTH
STATE WASTE CODE	(19)	
DAYS ON SITE	(20)	365

RADIOACTIVE (15) ☐YES ☒NO CURIES

LARGEST CONTAINER (21) 80

UNITS (22) ☒GAL ☐CU FT ☐LBS ☐TONS

* If EHS, amounts must be in lbs.

MAX DAILY AMT (23) 80

AVG DAILY AMT (24) 80

ANNUAL WASTE AMT (25)

STORAGE CONTAINER (26)

☐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.

PRESSURE STORAGE (27) ☒AMBIENT ☐ABOVE AMBIENT ☐BELOW AMBIENT

STORAGE TEMPERATURE (28) ☒AMBIENT ☐ABOVE AMBIENT ☐BELOW AMBIENT ☐CRYOGENIC

(29) % WT	(30) HAZARDOUS COMPONETS	(31) EHS	(32) CAS #
(1) 20	Hydrogen Chloride	☐YES ☒NO	7647-01-0
(2)		☐YES ☐NO	
(3)		☐YES ☐NO	
(4)		☐YES ☐NO	
(5)		☐YES ☐NO	

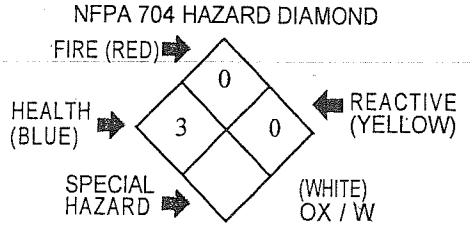
If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

(33) NFPA CLASSIFICATION

UN/DOT# 1789
Refer to shipping papers or MSDS

DOT HAZARD CLASS CORROSIVE
Refer to shipping papers or MSDS

NFPA 704 HAZARD DIAMOND



(34) EPCRA ☐YES ☒NO

X _____
(35) If *EPCRA, Please Sign Here*

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CALIFORNIA CHEMICAL INVENTORY FORM
DESCRIPTION PAGE

FORM 3

(1) ☐ ADD ☐ DELETE ☒ REVISE

(2) PAGE 8 OF 26

BUSINESS NAME	(3)	D & S CUSTOM PLATING, INC.			
CHEMICAL LOCATION (Address, Area, Building, etc.)	(4)	IN PLATING AREA		(5) CONFIDENTIAL LOCATION EPCRA	☐YES ☒NO
MAP # (if more than one)	(6)	1 of 1	GRID# (FROM MAP) (7)	D-4; D-5; D-6	

CHEMICAL NAME	(8)	CHROMIC ACID SOLUTION	TRADE SECRET (11) * IF EPCRA SEE INSTRUCTIONS	☐YES ☒NO
COMMON NAME	(9)		AN EHS CHEMICAL (12)	☐YES ☒NO
CAS #	(10)	Mixture	* IF EHS BOX IS 'YES' ALL AMOUNTS MUST BE LBS	
FIRE CODE HAZARD CLASSES	(13)		(36) FACILITY ID# 30 0035	

TYPE	(14)	☐PURE ☒MIXTURE ☐WASTE	RADIOACTIVE (15)	☐YES ☒NO CURIES
PHYSICAL STATE	(17)	☐SOLID ☒LIQUID ☐GAS	LARGEST CONTAINER (21)	450
FED HAZARD CATEGORIES	(18)	☐FIRE ☐REACTIVE ☐PRESSURE RELEASE ☒ACUTE HEALTH ☐CHRONIC HEALTH		
STATE WASTE CODE	(19)		UNITS (22) ☒GAL ☐CU FT ☐LBS ☐TONS	MAX DAILY AMT (23) 450
DAYS ON SITE	(20)	365	* If EHS, amounts must be in lbs.	AVG DAILY AMT (24) 450
				ANNUAL WASTE AMT (25)

STORAGE CONTAINER	(26)	☐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.	
PRESSURE STORAGE	(27)	☐AMBIENT ☒ABOVE AMBIENT ☐BELOW AMBIENT			
STORAGE TEMPERATURE	(28)	☐AMBIENT ☒ABOVE AMBIENT ☐BELOW AMBIENT ☐CRYOGENIC			

(29) % WT	(30) HAZARDOUS COMPONETS	(31) EHS	(32) CAS #
(1) 20	Chromium	☐YES ☒NO	1333-82-0
(2)		☐YES ☐NO	
(3)		☐YES ☐NO	
(4)		☐YES ☐NO	
(5)		☐YES ☐NO	

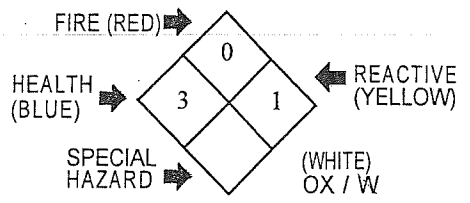
If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

(33) NFPA CLASSIFICATION

UN/DOT# 3087
Refer to shipping papers or MSDS

DOT HAZARD CLASS OXIDIZER
Refer to shipping papers or MSDS

NFPA 704 HAZARD DIAMOND



(34) EPCRA ☐YES ☒NO

X _____
(35) If *EPCRA, Please Sign Here*

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CALIFORNIA CHEMICAL INVENTORY FORM
DESCRIPTION PAGE

FORM 3

(1) ☐ ADD ☐ DELETE ☒ REVISE

(2) PAGE 9 OF 26

BUSINESS NAME (3): D & S CUSTOM PLATING, INC.

CHEMICAL LOCATION (Address, Area, Building, etc.) (4): 1) OUTSIDE, ADJACENT SO. FENCE; 2) INSIDE, IN PLATING AREA

(5) CONFIDENTIAL LOCATION EPCRA ☐YES ☒NO

MAP # (if more than one) (6): 1 of 1

GRID# (FROM MAP) (7): C-9; D-4; D-5; D-6

CHEMICAL NAME (8): SODIUM HYDROXIDE MIXTURE

COMMON NAME (9): CLEANER 220TT

CAS # (10): Mixture

TRADE SECRET (11) * IF EPCRA SEE INSTRUCTIONS: ☐YES ☒NO

AN EHS CHEMICAL (12): ☐YES ☒NO

* IF EHS BOX IS 'YES' ALL AMOUNTS MUST BE LBS

FIRE CODE HAZARD CLASSES (13):

(36) FACILITY ID# 30 035

TYPE (14): ☐PURE ☒MIXTURE ☐WASTE

RADIOACTIVE (15): ☐YES ☒NO CURIES

PHYSICAL STATE (17): ☐SOLID ☒LIQUID ☐GAS

LARGEST CONTAINER (21):

FED HAZARD CATEGORIES (18): ☐FIRE ☐REACTIVE ☐PRESSURE RELEASE ☒ACUTE HEALTH ☐CHRONIC HEALTH

STATE WASTE CODE (19):

UNITS (22): ☒GAL ☐CU FT ☐LBS ☐TONS

MAX DAILY AMT (23): 250

DAYS ON SITE (20): 365

* If EHS, amounts must be in lbs.

AVG DAILY AMT (24): 250

ANNUAL WASTE AMT (25):

STORAGE CONTAINER (26):

☐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.	

PRESSURE STORAGE (27): ☐AMBIENT ☒ABOVE AMBIENT ☐BELOW AMBIENT

STORAGE TEMPERATURE (28): ☐AMBIENT ☒ABOVE AMBIENT ☐BELOW AMBIENT ☐CRYOGENIC

(29) % WT	(30) HAZARDOUS COMPONETS	(31) EHS	(32) CAS #
(1) 4	Sodium Hydroxide	☐YES ☒NO	1310-73-2
(2)		☐YES ☐NO	
(3)		☐YES ☐NO	
(4)		☐YES ☐NO	
(5)		☐YES ☐NO	

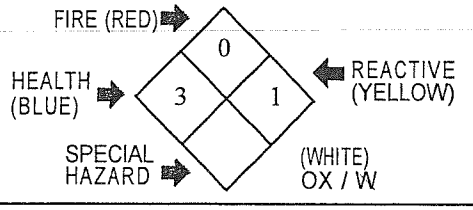
If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

(33) NFPA CLASSIFICATION

UN/DOT# 1759
Refer to shipping papers or MSDS

DOT HAZARD CLASS CORROSIVE
Refer to shipping papers or MSDS

NFPA 704 HAZARD DIAMOND



(34) EPCRA ☐YES ☒NO

X _____
(35) If *EPCRA, Please Sign Here*

MAKE AS MANY COPIES OF CHEMICAL INVENTORY FORM AS NEEDED

CALIFORNIA CHEMICAL INVENTORY FORM
DESCRIPTION PAGE

FORM 3

(1) ☐ ADD ☐ DELETE ☒ REVISE

(2) PAGE 10 OF 26

BUSINESS NAME (3): D & S CUSTOM PLATING, INC.

CHEMICAL LOCATION (Address, Area, Building, etc.) (4): 1) OUTSIDE, ADJACENT SO. FENCE; 2) INSIDE, IN PLATING AREA

(5) CONFIDENTIAL LOCATION EPCRA ☐YES ☒NO

MAP # (if more than one) (6): 1 of 1

GRID# (FROM MAP) (7): C-9; D-4; D-5; D-6

CHEMICAL NAME (8): SODIUM HYDROXIDE MIXTURE

COMMON NAME (9): CLEANER CH98

CAS # (10): Mixture

TRADE SECRET (11) * IF EPCRA SEE INSTRUCTIONS: ☐YES ☒NO

AN EHS CHEMICAL (12): ☐YES ☒NO

* IF EHS BOX IS 'YES' ALL AMOUNTS MUST BE LBS

FIRE CODE HAZARD CLASSES (13):

(36) FACILITY ID# 3 0 0 3 5

TYPE (14): ☐PURE ☒MIXTURE ☐WASTE

PHYSICAL STATE (17): ☐SOLID ☒LIQUID ☐GAS

RADIOACTIVE (15): ☐YES ☒NO CURIES

LARGEST CONTAINER (21): 250

FED HAZARD CATEGORIES (18): ☐FIRE ☐REACTIVE ☐PRESSURE RELEASE ☒ACUTE HEALTH ☐CHRONIC HEALTH

STATE WASTE CODE (19):

UNITS (22): ☒GAL ☐CU FT ☐LBS ☐TONS

* If EHS, amounts must be in lbs.

MAX DAILY AMT (23): 250

DAYS ON SITE (20): 365

AVG DAILY AMT (24): 250

ANNUAL WASTE AMT (25):

STORAGE CONTAINER (26):

☐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.	

PRESSURE STORAGE (27): ☐AMBIENT ☒ABOVE AMBIENT ☐BELOW AMBIENT

STORAGE TEMPERATURE (28): ☐AMBIENT ☒ABOVE 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)		☐YES ☐NO	

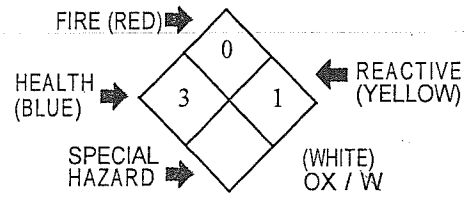
If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

(33) NFPA CLASSIFICATION

UN/DOT# 1823
Refer to shipping papers or MSDS

DOT HAZARD CLASS CORROSIVE
Refer to shipping papers or MSDS

NFPA 704 HAZARD DIAMOND



(34) EPCRA ☐YES ☒NO

X _____
(35) If *EPCRA, Please Sign Here*

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CALIFORNIA CHEMICAL INVENTORY FORM
DESCRIPTION PAGE

FORM 3

(1) ☐ ADD ☐ DELETE ☒ REVISE

(2) PAGE 11 OF 26

BUSINESS NAME (3): D & S CUSTOM PLATING, INC.

CHEMICAL LOCATION (4) (Address, Area, Building, etc.): IN PLATING AREA

(5) CONFIDENTIAL LOCATION EPCRA ☐YES ☒NO

MAP # (if more than one) (6): 1 of 1

GRID# (FROM MAP) (7): D-4; D-5; D-6

CHEMICAL NAME (8): COPPER PLATING SOLUTION

COMMON NAME (9): COPPER PLATE

CAS # (10): Mixture

TRADE SECRET (11) * IF EPCRA SEE INSTRUCTIONS: ☐YES ☒NO

AN EHS CHEMICAL (12): ☐YES ☒NO

* IF EHS BOX IS 'YES' ALL AMOUNTS MUST BE LBS

FIRE CODE HAZARD CLASSES (13):

(36) FACILITY ID# 30 035

TYPE (14): ☐PURE ☒MIXTURE ☐WASTE

PHYSICAL STATE (17): ☐SOLID ☒LIQUID ☐GAS

RADIOACTIVE (15): ☐YES ☒NO CURIES

LARGEST CONTAINER (21): 1,300

FED HAZARD CATEGORIES (18): ☐FIRE ☐REACTIVE ☐PRESSURE RELEASE ☒ACUTE HEALTH ☐CHRONIC HEALTH

STATE WASTE CODE (19):

UNITS (22): ☒GAL ☐CU FT ☐LBS ☐TONS

* If EHS, amounts must be in lbs.

MAX DAILY AMT (23): 1,750

AVG DAILY AMT (24): 1,750

ANNUAL WASTE AMT (25):

DAYS ON SITE (20): 365

STORAGE CONTAINER (26):

☐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.	

PRESSURE STORAGE (27): ☒AMBIENT ☐ABOVE AMBIENT ☐BELOW AMBIENT

STORAGE TEMPERATURE (28): ☒AMBIENT ☐ABOVE AMBIENT ☐BELOW AMBIENT ☐CRYOGENIC

(29) % WT	(30) HAZARDOUS COMPONETS	(31) EHS	(32) CAS #
(1) 15	Copper Sulfate	☐YES ☒NO	7758-98-7
(2) 4	Sulfuric Acid	☒YES ☐NO	7732-18-5
(3)		☐YES ☐NO	
(4)		☐YES ☐NO	
(5)		☐YES ☐NO	

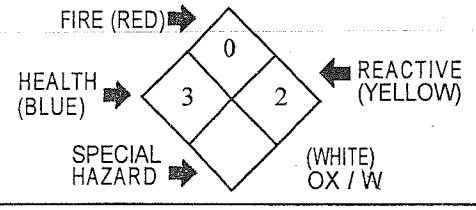
If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

(33) NFPA CLASSIFICATION

UN/DOT# 3082
Refer to shipping papers or MSDS

DOT HAZARD CLASS CORROSIVE
Refer to shipping papers or MSDS

NFPA 704 HAZARD DIAMOND



(34) EPCRA ☐YES ☒NO

X _____
(35) If *EPCRA, Please Sign Here*

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CALIFORNIA CHEMICAL INVENTORY FORM
DESCRIPTION PAGE

FORM 3

(1) ☐ ADD ☐ DELETE ☒ REVISE

(2) PAGE 12 OF 26

BUSINESS NAME (3): D & S CUSTOM PLATING, INC.

CHEMICAL LOCATION (Address, Area, Building, etc.) (4): 1) OUTSIDE, UNDER COVERED AREA, ADJACENT BLDG.; 2) INSIDE, IN PLATING AREA

(5) CONFIDENTIAL LOCATION EPCRA ☐YES ☒NO

MAP # (if more than one) (6): 1 of 1

GRID# (FROM MAP) (7): E-7; D-4; D-5; D-6

CHEMICAL NAME (8): HYDROCHLORIC ACID

COMMON NAME (9): MURIATIC ACID MIXTURE

CAS # (10): Mixture

TRADE SECRET (11) * IF EPCRA SEE INSTRUCTIONS: ☐YES ☒NO

AN EHS CHEMICAL (12): ☐YES ☒NO

* IF EHS BOX IS 'YES' ALL AMOUNTS MUST BE LBS

FIRE CODE HAZARD CLASSES (13):

(36) FACILITY ID# 30 035

TYPE (14): ☐PURE ☒MIXTURE ☐WASTE

PHYSICAL STATE (17): ☐SOLID ☒LIQUID ☐GAS

RADIOACTIVE (15): ☐YES ☒NO CURIES

LARGEST CONTAINER (21): 13

FED HAZARD CATEGORIES (18): ☐FIRE ☐REACTIVE ☐PRESSURE RELEASE ☒ACUTE HEALTH ☐CHRONIC HEALTH

STATE WASTE CODE (19):

UNITS (22): ☒GAL ☐CU FT ☐LBS ☐TONS

* If EHS, amounts must be in lbs.

MAX DAILY AMT (23): 20

AVG DAILY AMT (24): 12

ANNUAL WASTE AMT (25):

DAYS ON SITE (20): 365

STORAGE CONTAINER (26):

☐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.	

PRESSURE STORAGE (27): ☒AMBIENT ☐ABOVE AMBIENT ☐BELOW AMBIENT

STORAGE TEMPERATURE (28): ☒AMBIENT ☐ABOVE AMBIENT ☐BELOW AMBIENT ☐CRYOGENIC

(29) % WT	(30) HAZARDOUS COMPONETS	(31) EHS	(32) CAS #
(1) 32	Hydrogen Chloride	☐YES ☒NO	7647-01-0
(2) 68	Water	☐YES ☒NO	7732-18-2
(3)		☐YES ☐NO	
(4)		☐YES ☐NO	
(5)		☐YES ☐NO	

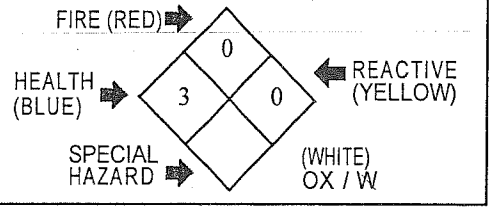
If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

(33) NFPA CLASSIFICATION

UN/DOT# 1789
Refer to shipping papers or MSDS

DOT HAZARD CLASS CORROSIVE
Refer to shipping papers or MSDS

NFPA 704 HAZARD DIAMOND



(34) EPCRA ☐YES ☒NO

X _____
(35) If *EPCRA, Please Sign Here*

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CALIFORNIA CHEMICAL INVENTORY FORM
DESCRIPTION PAGE

FORM 3

(1) ☐ ADD ☐ DELETE ☒ REVISE

(2) PAGE 13 OF 26

BUSINESS NAME	(3)	D & S CUSTOM PLATING, INC.	
CHEMICAL LOCATION (Address, Area, Building, etc.)	(4)	IN PLATING AREA	(5) CONFIDENTIAL LOCATION EPCRA ☐YES ☒NO
MAP # (if more than one)	(6)	1 of 1	GRID# (FROM MAP) (7) D-4; D-5; D-6

CHEMICAL NAME	(8)	NICKEL PLATING SOLUTION	TRADE SECRET (11) * IF EPCRA SEE INSTRUCTIONS	☐YES ☒NO
COMMON NAME	(9)	NICKEL PLATE	AN EHS CHEMICAL (12)	☐YES ☒NO
CAS #	(10)	Mixture	* IF EHS BOX IS 'YES' ALL AMOUNTS MUST BE LBS	
FIRE CODE HAZARD CLASSES	(13)		(36) FACILITY ID# 30 035	

TYPE	(14)	☐PURE ☒MIXTURE ☐WASTE	RADIOACTIVE (15)	☐YES ☒NO CURIES
PHYSICAL STATE	(17)	☐SOLID ☒LIQUID ☐GAS	LARGEST CONTAINER (21)	800
FED HAZARD CATEGORIES	(18)	☐FIRE ☐REACTIVE ☐PRESSURE RELEASE ☐ACUTE HEALTH ☒CHRONIC HEALTH		
STATE WASTE CODE	(19)		UNITS (22) ☒GAL ☐CU FT ☐LBS ☐TONS	MAX DAILY AMT (23) 800
DAYS ON SITE	(20)	365	* If EHS, amounts must be in lbs.	AVG DAILY AMT (24) 800
				ANNUAL WASTE AMT (25)

STORAGE CONTAINER	(26)	☐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.	
PRESSURE STORAGE	(27)	☐AMBIENT ☒ABOVE AMBIENT ☐BELOW AMBIENT			
STORAGE TEMPERATURE	(28)	☐AMBIENT ☒ABOVE AMBIENT ☐BELOW AMBIENT ☐CRYOGENIC			

(29) % WT	(30) HAZARDOUS COMPONETS	(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	

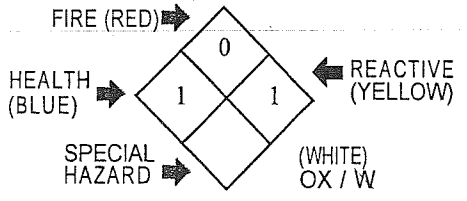
If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

(33) NFPA CLASSIFICATION

UN/DOT# 3082
Refer to shipping papers or MSDS

DOT HAZARD CLASS CORROSIVE
Refer to shipping papers or MSDS

NFPA 704 HAZARD DIAMOND



(34) EPCRA ☐YES ☒NO

X _____
(35) If *EPCRA, Please Sign Here*

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CALIFORNIA CHEMICAL INVENTORY FORM
DESCRIPTION PAGE

FORM 3

(1) ☐ ADD ☐ DELETE ☒ REVISE

(2) PAGE 14 OF 26

BUSINESS NAME (3): D & S CUSTOM PLATING, INC.

CHEMICAL LOCATION (4) (Address, Area, Building, etc.): IN PLATING AREA

(5) CONFIDENTIAL LOCATION EPCRA ☐YES ☒NO

MAP # (if more than one) (6): 1 of 1

GRID# (FROM MAP) (7): D-4; D-5; D-6

CHEMICAL NAME (8): NICKEL PLATING SOLUTION

COMMON NAME (9): NICKEL PLATE

CAS # (10):

TRADE SECRET (11) * IF EPCRA SEE INSTRUCTIONS: ☐YES ☒NO

AN EHS CHEMICAL (12): ☐YES ☒NO

* IF EHS BOX IS 'YES' ALL AMOUNTS MUST BE LBS

FIRE CODE HAZARD CLASSES (13):

(36) FACILITY ID# 30 0035

TYPE (14): ☐PURE ☒MIXTURE ☐WASTE

RADIOACTIVE (15): ☐YES ☒NO CURIES

LARGEST CONTAINER (21): 1,300

PHYSICAL STATE (17): ☐SOLID ☒LIQUID ☐GAS

FED HAZARD CATEGORIES (18): ☐FIRE ☐REACTIVE ☐PRESSURE RELEASE ☐ACUTE HEALTH ☒CHRONIC HEALTH

STATE WASTE CODE (19):

UNITS (22): ☒GAL ☐CU FT ☐LBS ☐TONS

MAX DAILY AMT (23): 2,800

DAYS ON SITE (20): 365

* If EHS, amounts must be in lbs.

AVG DAILY AMT (24): 2,800

ANNUAL WASTE AMT (25):

STORAGE CONTAINER (26):

☐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.	

PRESSURE STORAGE (27): ☐AMBIENT ☒ABOVE AMBIENT ☐BELOW AMBIENT

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)		☐YES ☐NO	

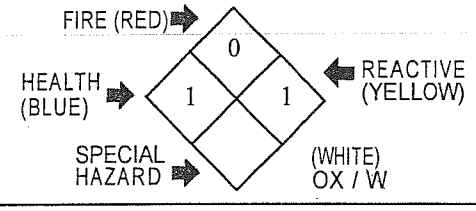
If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

(33) NFPA CLASSIFICATION

UN/DOT# 3082
Refer to shipping papers or MSDS

DOT HAZARD CLASS CORROSIVE
Refer to shipping papers or MSDS

NFPA 704 HAZARD DIAMOND



(34) EPCRA ☐YES ☒NO

X _____
(35) If *EPCRA, Please Sign Here*

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CALIFORNIA CHEMICAL INVENTORY FORM
DESCRIPTION PAGE

FORM 3

(1) ☐ ADD ☐ DELETE ☒ REVISE

(2) PAGE 15 OF 26

BUSINESS NAME (3): D & S CUSTOM PLATING, INC.

CHEMICAL LOCATION (4) (Address, Area, Building, etc.): IN PLATING AREA

(5) CONFIDENTIAL LOCATION EPCRA ☐YES ☒NO

MAP # (if more than one) (6): 1 of 1

GRID# (FROM MAP) (7): D-4; D-5; D-6

CHEMICAL NAME (8): NICKEL PLATING SOLUTION

COMMON NAME (9): NICKEL STRIKE

CAS # (10):

TRADE SECRET (11) * IF EPCRA SEE INSTRUCTIONS ☐YES ☒NO

AN EHS CHEMICAL (12) ☐YES ☒NO

* IF EHS BOX IS 'YES' ALL AMOUNTS MUST BE LBS

FIRE CODE HAZARD CLASSES (13):

(36) FACILITY ID# 30 0035

TYPE (14): ☐PURE ☒MIXTURE ☐WASTE

RADIOACTIVE (15): ☐YES ☒NO CURIES

PHYSICAL STATE (17): ☐SOLID ☒LIQUID ☐GAS

LARGEST CONTAINER (21): 100

FED HAZARD CATEGORIES (18): ☐FIRE ☐REACTIVE ☐PRESSURE RELEASE ☐ACUTE HEALTH ☒CHRONIC HEALTH

STATE WASTE CODE (19):

UNITS (22): ☒GAL ☐CU FT ☐LBS ☐TONS

MAX DAILY AMT (23): 100

DAYS ON SITE (20): 365

* If EHS, amounts must be in lbs.

AVG DAILY AMT (24): 100

ANNUAL WASTE AMT (25):

STORAGE CONTAINER (26):

☐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.	

PRESSURE STORAGE (27): ☐AMBIENT ☒ABOVE AMBIENT ☐BELOW AMBIENT

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) 10	Muriatic Acid	☐YES ☒NO	7647-01-0
(3)		☐YES ☐NO	
(4)		☐YES ☐NO	
(5)		☐YES ☐NO	

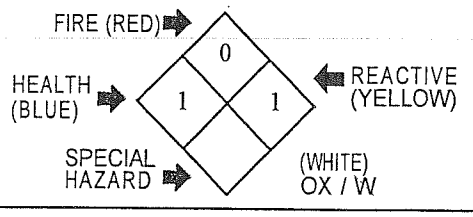
If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

(33) NFPA CLASSIFICATION

UN/DOT# 3082
Refer to shipping papers or MSDS

DOT HAZARD CLASS CORROSIVE
Refer to shipping papers or MSDS

NFPA 704 HAZARD DIAMOND



(34) EPCRA ☐YES ☒NO

X _____
(35) If *EPCRA, Please Sign Here*

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CALIFORNIA CHEMICAL INVENTORY FORM
DESCRIPTION PAGE

FORM 3

(1) ☐ ADD ☐ DELETE ☒ REVISE

(2) PAGE 16 OF 26

BUSINESS NAME	(3)	D & S CUSTOM PLATING, INC.	
CHEMICAL LOCATION (Address, Area, Building, etc.)	(4)	IN PLATING AREA	(5) CONFIDENTIAL LOCATION EPCRA ☐YES ☒NO
MAP # (if more than one)	(6)	1 of 1	GRID# (FROM MAP) (7) D-4; D-5; D-6

CHEMICAL NAME	(8)	SUFURIC ACID MIXTURE	TRADE SECRET (11) * IF EPCRA SEE INSTRUCTIONS ☐YES ☒NO
COMMON NAME	(9)	NICKEL STRIP	AN EHS CHEMICAL (12) ☐YES ☒NO
CAS #	(10)	Mixture	* IF EHS BOX IS 'YES' ALL AMOUNTS MUST BE LBS
FIRE CODE HAZARD CLASSES	(13)		(36) FACILITY ID# 30 035

TYPE	(14)	☐PURE ☒MIXTURE ☐WASTE	RADIOACTIVE (15)	☐YES ☒NO CURIES
PHYSICAL STATE	(17)	☐SOLID ☒LIQUID ☐GAS	LARGEST CONTAINER (21)	80
FED HAZARD CATEGORIES	(18)	☐FIRE ☐REACTIVE ☐PRESSURE RELEASE ☒ACUTE HEALTH ☐CHRONIC 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) 80
				ANNUAL WASTE AMT (25)

STORAGE CONTAINER (26)

☐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.	

PRESSURE STORAGE (27) ☐AMBIENT ☐ABOVE AMBIENT ☐BELOW AMBIENT

STORAGE TEMPERATURE (28) ☐AMBIENT ☐ABOVE AMBIENT ☐BELOW AMBIENT ☐CRYOGENIC

(29) % WT	(30) HAZARDOUS COMPONETS	(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	

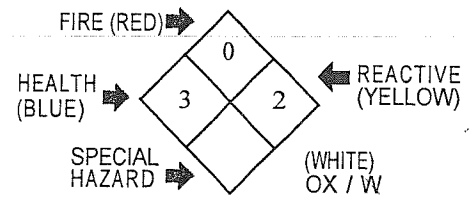
If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

(33) NFPA CLASSIFICATION

UN/DOT# 1830
Refer to shipping papers or MSDS

DOT HAZARD CLASS CORROSIVE
Refer to shipping papers or MSDS

NFPA 704 HAZARD DIAMOND



(34) EPCRA ☐YES ☒NO

X _____
(35) If *EPCRA, Please Sign Here*

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CALIFORNIA CHEMICAL INVENTORY FORM
DESCRIPTION PAGE

FORM 3

(1) ☐ ADD ☐ DELETE ☒ REVISE

(2) PAGE 17 OF 26

BUSINESS NAME	(3)	D & S CUSTOM PLATING, INC.
CHEMICAL LOCATION (Address, Area, Building, etc.)	(4)	IN PLATING AREA — (5) CONFIDENTIAL LOCATION EPCRA ☐YES ☒NO
MAP # (if more than one)	(6)	1 of 1 — GRID# (FROM MAP) (7) D-4; D-5; D-6

CHEMICAL NAME	(8)	NITRIC ACID MIXTURE
COMMON NAME	(9)	NITRIC STRIP
CAS #	(10)	Mixture
FIRE CODE HAZARD CLASSES	(13)	

TRADE SECRET (11) * IF EPCRA SEE INSTRUCTIONS ☐YES ☒NO

AN EHS CHEMICAL (12) ☐YES ☒NO

* IF EHS BOX IS 'YES' ALL AMOUNTS MUST BE LBS

(36) FACILITY ID# 30 035

TYPE	(14)	☐PURE ☒MIXTURE ☐WASTE
PHYSICAL STATE	(17)	☐SOLID ☒LIQUID ☐GAS
FED HAZARD CATEGORIES	(18)	☐FIRE ☐REACTIVE ☐PRESSURE RELEASE ☒ACUTE HEALTH ☐CHRONIC HEALTH
STATE WASTE CODE	(19)	
DAYS ON SITE	(20)	365

RADIOACTIVE (15) ☐YES ☒NO CURIES

LARGEST CONTAINER (21) 80

UNITS (22) ☒GAL ☐CU FT ☐LBS ☐TONS

* If EHS, amounts must be in lbs.

MAX DAILY AMT (23) 80

AVG DAILY AMT (24) 80

ANNUAL WASTE AMT (25)

STORAGE CONTAINER (26)

☐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.	

PRESSURE STORAGE (27) ☒AMBIENT ☐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
(2)		☐YES ☐NO	
(3)		☐YES ☐NO	
(4)		☐YES ☐NO	
(5)		☐YES ☐NO	

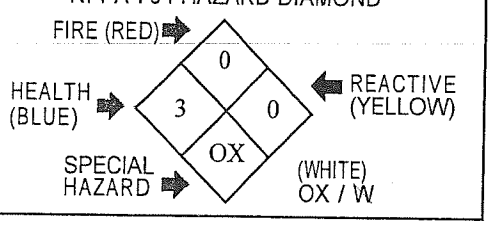
If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

(33) NFPA CLASSIFICATION

UN/DOT# 2031
Refer to shipping papers or MSDS

DOT HAZARD CLASS OXIDIZER
Refer to shipping papers or MSDS

NFPA 704 HAZARD DIAMOND



(34) EPCRA ☐YES ☒NO

X _____
(35) If *EPCRA, Please Sign Here*

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CALIFORNIA CHEMICAL INVENTORY FORM
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FORM 3

(1) ☐ ADD ☐ DELETE ☒ REVISE

(2) PAGE 18 OF 26

BUSINESS NAME	(3)	D & S CUSTOM PLATING, INC.		
CHEMICAL LOCATION (Address, Area, Building, etc.)	(4)	IN PLATING AREA	(5) CONFIDENTIAL LOCATION EPCRA	☐YES ☒NO
MAP # (if more than one)	(6)	1 of 1	GRID# (FROM MAP) (7)	D-4; D-5; D-6

CHEMICAL NAME	(8)	SODIUM BIFLUORIDE	TRADE SECRET (11) * IF EPCRA SEE INSTRUCTIONS	☐YES ☒NO
COMMON NAME	(9)		AN EHS CHEMICAL (12)	☐YES ☒NO
CAS #	(10)	Mixture	* IF EHS BOX IS 'YES' ALL AMOUNTS MUST BE LBS	
FIRE CODE HAZARD CLASSES	(13)		(36) FACILITY ID# 30 0035	

TYPE	(14)	☐PURE ☒MIXTURE ☐WASTE	RADIOACTIVE (15)	☐YES ☒NO CURIES
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 ☐LBS ☐TONS	MAX DAILY AMT (23) 90
DAYS ON SITE	(20)	365	* If EHS, amounts must be in lbs.	AVG DAILY AMT (24) 90
				ANNUAL WASTE AMT (25)

STORAGE CONTAINER	(26)	☐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.	
PRESSURE STORAGE	(27)	☒AMBIENT ☐ABOVE AMBIENT ☐BELOW AMBIENT			
STORAGE TEMPERATURE	(28)	☒AMBIENT ☐ABOVE AMBIENT ☐BELOW AMBIENT ☐CRYOGENIC			

(29) % WT	(30) HAZARDOUS COMPONETS	(31) EHS	(32) CAS #
(1) 10	Sodium Bifluoride	☐YES ☒NO	1333-83-1
(2)		☐YES ☐NO	
(3)		☐YES ☐NO	
(4)		☐YES ☐NO	
(5)		☐YES ☐NO	

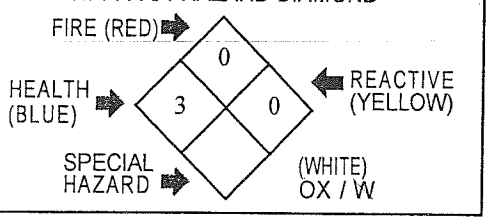
If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

(33) NFPA CLASSIFICATION

UN/DOT# 2439
Refer to shipping papers or MSDS

DOT HAZARD CLASS CORROSIVE
Refer to shipping papers or MSDS

NFPA 704 HAZARD DIAMOND



(34) EPCRA ☐YES ☒NO

X _____
(35) If *EPCRA, Please Sign Here*

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FORM 3

(1) ☐ ADD ☐ DELETE ☒ REVISE

(2) PAGE 19 OF 26

BUSINESS NAME (3): D & S CUSTOM PLATING, INC.

CHEMICAL LOCATION (Address, Area, Building, etc.) (4): OUTSIDE, ADJACENT SO. WALL OF SHOP

(5) CONFIDENTIAL LOCATION EPCRA ☐YES ☒NO

MAP # (if more than one) (6): 1 of 1

GRID# (FROM MAP) (7): E-7

CHEMICAL NAME (8): SULFURIC ACID

COMMON NAME (9): SULFURIC ACID

CAS # (10): Mixture

TRADE SECRET (11) * IF EPCRA SEE INSTRUCTIONS: ☐YES ☒NO

AN EHS CHEMICAL (12): ☐YES ☒NO

* IF EHS BOX IS 'YES' ALL AMOUNTS MUST BE LBS

FIRE CODE HAZARD CLASSES (13):

(36) FACILITY ID# 30 035

TYPE (14): ☐PURE ☒MIXTURE ☐WASTE

RADIOACTIVE (15): ☐YES ☒NO CURIES

PHYSICAL STATE (17): ☐SOLID ☒LIQUID ☐GAS

LARGEST CONTAINER (21): 13

FED HAZARD CATEGORIES (18): ☐FIRE ☐REACTIVE ☐PRESSURE RELEASE ☒ACUTE HEALTH ☐CHRONIC HEALTH

STATE WASTE CODE (19):

UNITS (22): ☒GAL ☐CU FT ☐LBS ☐TONS

MAX DAILY AMT (23): 30

DAYS ON SITE (20): 365

* If EHS, amounts must be in lbs.

AVG DAILY AMT (24): 15

ANNUAL WASTE AMT (25):

STORAGE CONTAINER (26):

☐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.	

PRESSURE STORAGE (27): ☒AMBIENT ☐ABOVE AMBIENT ☐BELOW AMBIENT

STORAGE TEMPERATURE (28): ☒AMBIENT ☐ABOVE AMBIENT ☐BELOW AMBIENT ☐CRYOGENIC

(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 ☐NO	
(4)		☐YES ☐NO	
(5)		☐YES ☐NO	

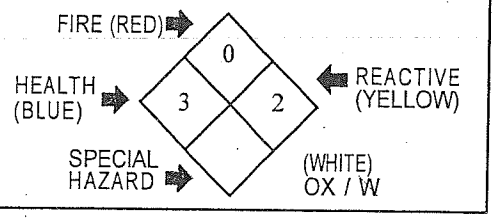
If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

(33) NFPA CLASSIFICATION

UN/DOT# 1830
Refer to shipping papers or MSDS

DOT HAZARD CLASS CORROSIVE
Refer to shipping papers or MSDS

NFPA 704 HAZARD DIAMOND



(34) EPCRA ☐YES ☒NO

X _____
(35) If *EPCRA, Please Sign Here*

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FORM 3

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(2) PAGE 20 OF 26

BUSINESS NAME	(3)	D & S CUSTOM PLATING, INC.
CHEMICAL LOCATION (Address, Area, Building, etc.)	(4)	IN PLATING AREA — (5) CONFIDENTIAL LOCATION EPCRA ☐YES ☒NO
MAP # (if more than one)	(6)	1 of 1 — GRID# (FROM MAP) (7) D-4; D-5; D-6

CHEMICAL NAME	(8)	ZINCATE
COMMON NAME	(9)	
CAS #	(10)	Mixture
FIRE CODE HAZARD CLASSES	(13)	(36) FACILITY ID# 30 0035

TRADE SECRET (11) * IF EPCRA SEE INSTRUCTIONS ☐YES ☒NO

AN EHS CHEMICAL (12) ☐YES ☒NO

* IF EHS BOX IS 'YES' ALL AMOUNTS MUST BE LBS

TYPE	(14)	☐PURE ☒MIXTURE ☐WASTE
PHYSICAL STATE	(17)	☐SOLID ☒LIQUID ☐GAS
FED HAZARD CATEGORIES	(18)	☐FIRE ☐REACTIVE ☐PRESSURE RELEASE ☒ACUTE HEALTH ☐CHRONIC HEALTH
STATE WASTE CODE	(19)	
DAYS ON SITE	(20)	365

RADIOACTIVE (15) ☐YES ☒NO CURIES

LARGEST CONTAINER (21) 90

UNITS (22) ☒GAL ☐CU FT ☐LBS ☐TONS

* If EHS, amounts must be in lbs.

MAX DAILY AMT (23) 90

AVG DAILY AMT (24) 90

ANNUAL WASTE AMT (25)

STORAGE CONTAINER (26)

☐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.

PRESSURE STORAGE (27) ☒AMBIENT ☐ABOVE AMBIENT ☐BELOW AMBIENT

STORAGE TEMPERATURE (28) ☒AMBIENT ☐ABOVE AMBIENT ☐BELOW 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 ☒NO	7446-20-0
(3) 1 - 10	Copper Sulfate	☐YES ☒NO	7758-99-8
(4)		☐YES ☐NO	
(5)		☐YES ☐NO	

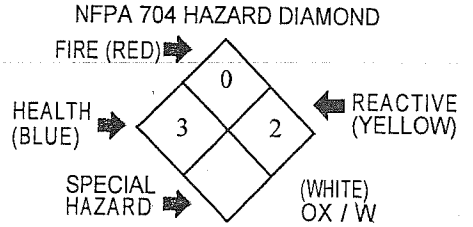
If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

(33) NFPA CLASSIFICATION

UN/DOT# 1760
Refer to shipping papers or MSDS

DOT HAZARD CLASS CORROSIVE
Refer to shipping papers or MSDS

NFPA 704 HAZARD DIAMOND



(34) EPCRA ☐YES ☒NO

X _____
(35) If *EPCRA, Please Sign Here*

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CALIFORNIA CHEMICAL INVENTORY FORM
DESCRIPTION PAGE

FORM 3

(1) ☐ ADD ☐ DELETE ☒ REVISE

(2) PAGE 21 OF 26

BUSINESS NAME	(3)	D & S CUSTOM PLATING, INC.		
CHEMICAL LOCATION (Address, Area, Building, etc.)	(4)	IN PLATING AREA	(5) CONFIDENTIAL LOCATION EPCRA	☐YES ☒NO
MAP # (if more than one)	(6)	1 of 1	GRID# (FROM MAP) (7)	D-4; D-5; D-6

CHEMICAL NAME	(8)	ZINCATE	TRADE SECRET (11) * IF EPCRA SEE INSTRUCTIONS	☐YES ☒NO
COMMON NAME	(9)		AN EHS CHEMICAL (12)	☐YES ☒NO
CAS #	(10)	Mixture	* IF EHS BOX IS 'YES' ALL AMOUNTS MUST BE LBS	
FIRE CODE HAZARD CLASSES	(13)		(36) FACILITY ID# 30 035	

TYPE	(14)	☐PURE ☒MIXTURE ☐WASTE	RADIOACTIVE (15)	☐YES ☒NO CURIES
PHYSICAL STATE	(17)	☐SOLID ☒LIQUID ☐GAS	LARGEST CONTAINER (21)	450
FED HAZARD CATEGORIES	(18)	☐FIRE ☐REACTIVE ☐PRESSURE RELEASE ☒ACUTE HEALTH ☐CHRONIC HEALTH		
STATE WASTE CODE	(19)		UNITS (22) ☒GAL ☐CU FT ☐LBS ☐TONS	MAX DAILY AMT (23) 450
DAYS ON SITE	(20)	365	* If EHS, amounts must be in lbs.	AVG DAILY AMT (24) 450
				ANNUAL WASTE AMT (25)

STORAGE CONTAINER (26)

☐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.	

PRESSURE STORAGE (27) ☒AMBIENT ☐ABOVE AMBIENT ☐BELOW AMBIENT

STORAGE TEMPERATURE (28) ☒AMBIENT ☐ABOVE AMBIENT ☐BELOW AMBIENT ☐CRYOGENIC

(29) % WT	(30) HAZARDOUS COMPONETS	(31) EHS	(32) CAS #
(1) 15	Copper Sulfate	☐YES ☒NO	7758-98-7
(2) 4	Sulfuric Acid	☒YES ☐NO	7732-18-5
(3)		☐YES ☐NO	
(4)		☐YES ☐NO	
(5)		☐YES ☐NO	

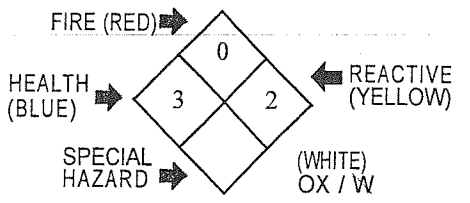
If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

(33) NFPA CLASSIFICATION

UN/DOT# 3082
Refer to shipping papers or MSDS

DOT HAZARD CLASS CORROSIVE
Refer to shipping papers or MSDS

NFPA 704 HAZARD DIAMOND



(34) EPCRA ☐YES ☒NO

X _____
(35) If *EPCRA, Please Sign Here*

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CALIFORNIA CHEMICAL INVENTORY FORM
DESCRIPTION PAGE

FORM 3

(1) ☐ ADD ☐ DELETE ☒ REVISE

(2) PAGE 22 OF 26

BUSINESS NAME (3): D & S CUSTOM PLATING, INC.

CHEMICAL LOCATION (Address, Area, Building, etc.) (4): IN PLATING AREA

(5) CONFIDENTIAL LOCATION EPCRA ☐YES ☒NO

MAP # (if more than one) (6): 1 of 1

GRID# (FROM MAP) (7): D-4; D-5; D-6

CHEMICAL NAME (8): POTASSIUM MONOPENSULFATE

COMMON NAME (9): ZINCATE STRIP

CAS # (10): Mixture

TRADE SECRET (11) * IF EPCRA SEE INSTRUCTIONS: ☐YES ☒NO

AN EHS CHEMICAL (12): ☐YES ☒NO

* IF EHS BOX IS 'YES' ALL AMOUNTS MUST BE LBS

FIRE CODE HAZARD CLASSES (13):

(36) FACILITY ID# 30 035

TYPE (14): ☐PURE ☒MIXTURE ☐WASTE

PHYSICAL STATE (17): ☐SOLID ☒LIQUID ☐GAS

RADIOACTIVE (15): ☐YES ☒NO CURIES

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 ☐LBS ☐TONS

MAX DAILY AMT (23): 90

DAYS ON SITE (20): 365

* If EHS, amounts must be in lbs.

AVG DAILY AMT (24): 90

ANNUAL WASTE AMT (25):

STORAGE CONTAINER (26):

☐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.	

PRESSURE STORAGE (27): ☒AMBIENT ☐ABOVE AMBIENT ☐BELOW AMBIENT

STORAGE TEMPERATURE (28): ☒AMBIENT ☐ABOVE AMBIENT ☐BELOW AMBIENT ☐CRYOGENIC

(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	

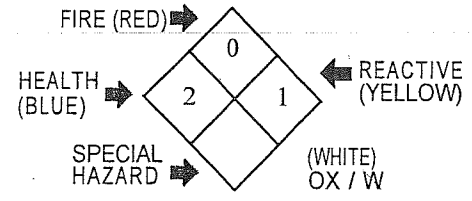
If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

(33) NFPA CLASSIFICATION

UN/DOT# 3260
Refer to shipping papers or MSDS

DOT HAZARD CLASS CORROSIVE
Refer to shipping papers or MSDS

NFPA 704 HAZARD DIAMOND



(34) EPCRA ☐YES ☒NO

X _____
(35) If *EPCRA, Please Sign Here*

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FORM 3

(1) ☐ ADD ☐ DELETE ☒ REVISE

(2) PAGE 23 OF 26

BUSINESS NAME	(3)	D & S CUSTOM PLATING, INC.	
CHEMICAL LOCATION (Address, Area, Building, etc.)	(4)	OUTSIDE, ADJACENT SO. FENCE	(5) CONFIDENTIAL LOCATION EPCRA ☐YES ☒NO
MAP # (if more than one)	(6)	1 of 1	GRID# (FROM MAP) (7) D-9

CHEMICAL NAME	(8)	WASTE METAL HYDROXIDE SLUDGE	TRADE SECRET (11) * IF EPCRA SEE INSTRUCTIONS ☐YES ☒NO
COMMON NAME	(9)		AN EHS CHEMICAL (12) ☐YES ☒NO
CAS #	(10)	Mixture	* IF EHS BOX IS 'YES' ALL AMOUNTS MUST BE LBS
FIRE CODE HAZARD CLASSES	(13)		(36) FACILITY ID# 30 035

TYPE	(14)	☐PURE ☐MIXTURE ☒WASTE		RADIOACTIVE (15)	☐YES ☒NO CURIES
PHYSICAL STATE	(17)	☐SOLID ☒LIQUID ☐GAS		LARGEST CONTAINER (21)	500
FED HAZARD CATEGORIES	(18)	☐FIRE ☐REACTIVE ☐PRESSURE RELEASE ☐ACUTE HEALTH ☐CHRONIC HEALTH			
STATE WASTE CODE	(19)	121	UNITS (22) ☒GAL ☐CU FT ☐LBS ☐TONS	MAX DAILY AMT (23)	500
DAYS ON SITE	(20)	365	* If EHS, amounts must be in lbs.	AVG DAILY AMT (24)	250
				ANNUAL WASTE AMT (25)	3,000

STORAGE CONTAINER	(26)	☐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.	
PRESSURE STORAGE	(27)	☒AMBIENT ☐ABOVE AMBIENT ☐BELOW AMBIENT			
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	

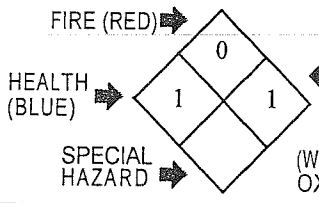
If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

(33) NFPA CLASSIFICATION

UN/DOT# 3087
Refer to shipping papers or MSDS

DOT HAZARD CLASS CORROSIVE
Refer to shipping papers or MSDS

NFPA 704 HAZARD DIAMOND



(34) EPCRA ☐YES ☒NO

X _____
(35) If *EPCRA, Please Sign Here*

MAKE AS MANY COPIES OF CHEMICAL INVENTORY FORM AS NEEDED

CALIFORNIA CHEMICAL INVENTORY FORM
DESCRIPTION PAGE

FORM 3

(1) ☐ ADD ☐ DELETE ☒ REVISE

(2) PAGE 24 OF 26

BUSINESS NAME (3): D & S CUSTOM PLATING, INC.

CHEMICAL LOCATION (4) (Address, Area, Building, etc.): OUTSIDE, ADJACENT SO. FENCE

(5) CONFIDENTIAL LOCATION EPCRA ☐YES ☒NO

MAP # (if more than one) (6): 1 of 1

GRID# (FROM MAP) (7): D-9

CHEMICAL NAME (8): WASTE METAL HYDROXIDE SLUDGE

COMMON NAME (9):

CAS # (10): Mixture

TRADE SECRET (11) * IF EPCRA SEE INSTRUCTIONS ☐YES ☒NO

AN EHS CHEMICAL (12) ☐YES ☒NO

* IF EHS BOX IS 'YES' ALL AMOUNTS MUST BE LBS

FIRE CODE HAZARD CLASSES (13):

(36) FACILITY ID# 30 035

TYPE (14): ☐PURE ☐MIXTURE ☒WASTE

PHYSICAL STATE (17): ☒SOLID ☐LIQUID ☐GAS

RADIOACTIVE (15): ☐YES ☒NO CURIES

LARGEST CONTAINER (21): 500

FED HAZARD CATEGORIES (18): ☐FIRE ☐REACTIVE ☐PRESSURE RELEASE ☐ACUTE HEALTH ☐CHRONIC HEALTH

STATE WASTE CODE (19): 181

UNITS (22): ☐GAL ☐CU FT ☒LBS ☐TONS

MAX DAILY AMT (23): 1,100

DAYS ON SITE (20): 365

* If EHS, amounts must be in lbs.

AVG DAILY AMT (24): 550

ANNUAL WASTE AMT (25): 6,000

STORAGE CONTAINER (26):

☐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.	

PRESSURE STORAGE (27): ☒AMBIENT ☐ABOVE AMBIENT ☐BELOW AMBIENT

STORAGE TEMPERATURE (28): ☒AMBIENT ☐ABOVE AMBIENT ☐BELOW AMBIENT ☐CRYOGENIC

(29) % WT	(30) HAZARDOUS COMPONETS	(31) EHS	(32) CAS #
(1) 10 - 15	Copper	☐YES ☒NO	7758-98-7
(2) 10 - 15	Nickel	☐YES ☒NO	10101-97-0
(3) 30 - 40	Chrome	☐YES ☒NO	1333-82-0
(4)		☐YES ☐NO	
(5)		☐YES ☐NO	

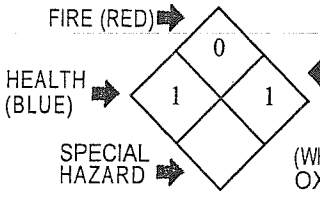
If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

(33) NFPA CLASSIFICATION

UN/DOT# 3077
Refer to shipping papers or MSDS

DOT HAZARD CLASS CORROSIVE
Refer to shipping papers or MSDS

NFPA 704 HAZARD DIAMOND



(34) EPCRA ☐YES ☒NO

X _____
(35) If *EPCRA, Please Sign Here*

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CALIFORNIA CHEMICAL INVENTORY FORM
DESCRIPTION PAGE

FORM 3

(1) ☐ ADD ☐ DELETE ☒ REVISE

(2) PAGE 25 OF 26

BUSINESS NAME (3): D & S CUSTOM PLATING, INC.

CHEMICAL LOCATION (Address, Area, Building, etc.) (4): OUTSIDE, ADJACENT SO. FENCE

(5) CONFIDENTIAL LOCATION EPCRA ☐YES ☒NO

MAP # (if more than one) (6): 1 of 1

GRID# (FROM MAP) (7): C-9

CHEMICAL NAME (8): WASTE NITRIC ACID MIXTURE

COMMON NAME (9): WASTE NITRIC ACID

CAS # (10): Mixture

TRADE SECRET (11) * IF EPCRA SEE INSTRUCTIONS: ☐YES ☒NO

AN EHS CHEMICAL (12): ☐YES ☒NO

* IF EHS BOX IS 'YES' ALL AMOUNTS MUST BE LBS

FIRE CODE HAZARD CLASSES (13):

(36) FACILITY ID# 30 035

TYPE (14): ☐PURE ☐MIXTURE ☒WASTE

PHYSICAL STATE (17): ☐SOLID ☒LIQUID ☐GAS

RADIOACTIVE (15): ☐YES ☒NO CURIES

LARGEST CONTAINER (21): 55

FED HAZARD CATEGORIES (18): ☐FIRE ☐REACTIVE ☐PRESSURE RELEASE ☒ACUTE HEALTH ☐CHRONIC HEALTH

STATE WASTE CODE (19): 791

UNITS (22): ☒GAL ☐CU FT ☐LBS ☐TONS

MAX DAILY AMT (23): 330

DAYS ON SITE (20): 365

* If EHS, amounts must be in lbs.

AVG DAILY AMT (24): 165

ANNUAL WASTE AMT (25): 1,980

STORAGE CONTAINER (26):

☐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.	

PRESSURE STORAGE (27): ☒AMBIENT ☐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
(2)		☐YES ☐NO	
(3)		☐YES ☐NO	
(4)		☐YES ☐NO	
(5)		☐YES ☐NO	

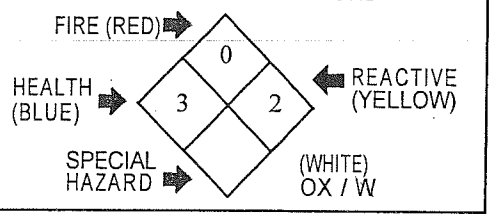
If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

(33) NFPA CLASSIFICATION

UN/DOT# 1760
Refer to shipping papers or MSDS

DOT HAZARD CLASS CORROSIVE
Refer to shipping papers or MSDS

NFPA 704 HAZARD DIAMOND



(34) EPCRA ☐YES ☒NO

X _____
(35) If *EPCRA, Please Sign Here*

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CALIFORNIA CHEMICAL INVENTORY FORM
DESCRIPTION PAGE

FORM 3

(1) ☐ ADD ☐ DELETE ☒ REVISE

(2) PAGE 26 OF 26

BUSINESS NAME (3): D & S CUSTOM PLATING, INC.

CHEMICAL LOCATION (Address, Area, Building, etc.) (4): 1) OUTSIDE, UNDER COVERED AREA, ADJACENT BLDG.; 2) INSIDE, IN PLATING AREA

(5) CONFIDENTIAL LOCATION EPCRA ☐YES ☒NO

MAP # (if more than one) (6): 1 of 1

GRID# (FROM MAP) (7): D-4; D-5; D-6; D-7

CHEMICAL NAME (8): WASTE WATER

COMMON NAME (9): WASTE WATER

CAS # (10): Mixture

TRADE SECRET (11) * IF EPCRA SEE INSTRUCTIONS: ☐YES ☒NO

AN EHS CHEMICAL (12): ☐YES ☒NO

* IF EHS BOX IS 'YES' ALL AMOUNTS MUST BE LBS

FIRE CODE HAZARD CLASSES (13):

(36) FACILITY ID# 30 035

TYPE (14): ☐PURE ☐MIXTURE ☒WASTE

RADIOACTIVE (15): ☐YES ☒NO CURIES

PHYSICAL STATE (17): ☐SOLID ☒LIQUID ☐GAS

LARGEST CONTAINER (21): 500

FED HAZARD CATEGORIES (18): ☐FIRE ☐REACTIVE ☐PRESSURE RELEASE ☐ACUTE HEALTH ☐CHRONIC HEALTH

STATE WASTE CODE (19): 121

UNITS (22): ☒GAL ☐CU FT ☐LBS ☐TONS

MAX DAILY AMT (23): 500

DAYS ON SITE (20): 365

* If EHS, amounts must be in lbs.

AVG DAILY AMT (24): 250

ANNUAL WASTE AMT (25): 2,000

STORAGE CONTAINER (26):

☐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.	

PRESSURE STORAGE (27): ☒AMBIENT ☐ABOVE AMBIENT ☐BELOW AMBIENT

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	

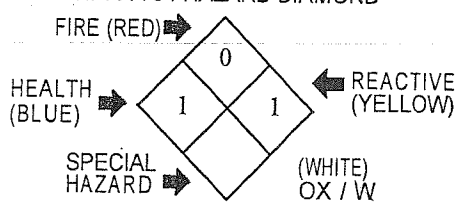
If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

(33) NFPA CLASSIFICATION

UN/DOT# N/A
Refer to shipping papers or MSDS

DOT HAZARD CLASS N/A
Refer to shipping papers or MSDS

NFPA 704 HAZARD DIAMOND



(34) EPCRA ☐YES ☒NO

X _____
(35) If *EPCRA, Please Sign Here*

MAKE AS MANY COPIES OF CHEMICAL INVENTORY FORM AS NEEDED

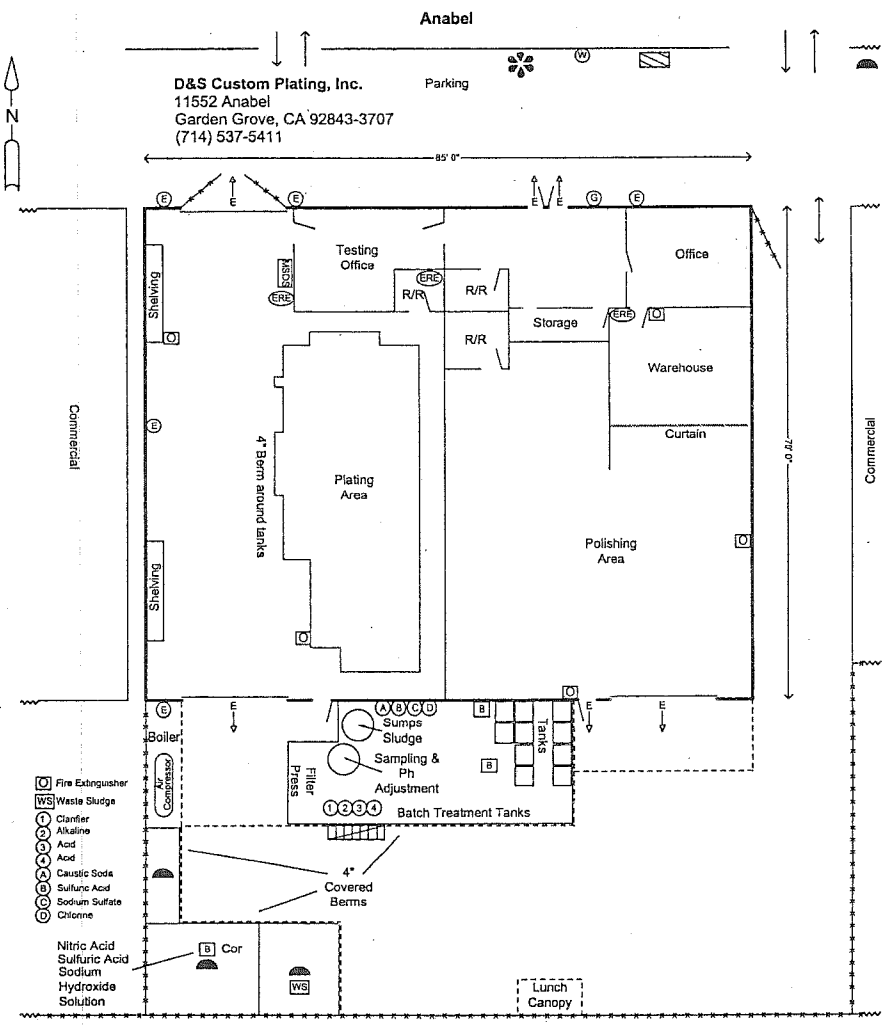
SITE MAP

FORM 2

BUSINESS NAME D & S CUSTOM PLATING, INC. DATE 07 / 31 / 02

BUSINESS ADDRESS 11552 ANABEL / GARDEN GROVE, CA ZIP CODE 92843 - 3707

NO SCALE TO DRAWING REQUIRED



SYMBOL LEGEND

- (E) ELECTRICAL PANEL SHUT-OFF
- (G) NATURAL GAS SHUT-OFF
- (W) WATER SHUT-OFF
- (PSO) EMERGENCY PUMP SHUT-OFF
- △ TANK MONITORING ALARM
- ↑ NORTH ORIENTATION
- STORM DRAIN
- STAGING AREA EVACUATION
- MSDS MSDS LOCATION
- FIRE HYDRANT
- FENCE
- (ERE) EMERGENCY RESPONSE EQUIPMENT/ABSORBENTS
- UNDERGROUND STORAGE TANK
- [M] MOTOR OILS & LUBRICANTS COMBUSTIBLE LIQUIDS
- [B] BATTERY ELECTROLYTE CORROSIVE LIQUIDS
- [D] DIESEL FUEL
- [C] COMPRESSED GAS
- [P] PROPANE
- [A] ANTI FREEZE/COOLANTS
- [W] WASTE OIL
- [UF] OR USED FILTERS
- [F] FLAMMABLE LIQUID
- [S] SOLVENT
- [O] OTHER
- [KB] KNOX BOX LOCATION
- (AS) AUTOMATIC SPRINKLERED BLDG.
- FIRE DEPARTMENT SPRINKLER CONNECTION

HELPFUL TO SHOW

- LOADING AREAS
- PARKING LOTS /INTERNAL ROADS
- ADJACENT STREET AND ALLEYS
- FACILITY STORAGE AREA

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 at the facility: (vocal, paging system, manual alarm, etc.)

   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	911
Office of Emergency Services (OES)	(800) 852-7550 OR (916) 427-4341
National Response Center	(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 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. 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. General:

   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: Douglas L Bush

NAME: DOUGLAS L. BUSH

TITLE: C.E.O. / OWNER

DATE: 01 / 14 / 03

EMERGENCY RELEASE FOLLOW-UP NOTICE REPORTING FORM

A

BUSINESS NAME: D & S CUSTOM PLATING, INC.

FACILITY EMERGENCY CONTACT & PHONE NUMBER: DOUGLAS L. BUSH (714) 537-5411

B

INCIDENT MO DAY YR DATE / / /

TIME OES NOTIFIED (use 24 hr time)

OES CONTROL NO. / / / / / /

C

INCIDENT ADDRESS LOCATION: 11552 ANABEL

CITY / COMMUNITY: GARDEN GROVE

COUNTY: ORANGE

ZIP: 92843 - 3707

D

CHEMICAL OR TRADE NAME (print or type)

CAS Number

CHECK IF CHEMICAL IS LISTED IN 40 CFR 355, APPENDIX A ☐

CHECK IF RELEASE REQUIRES NOTIFICATION UNDER 42 U.S.C. Section 9603 (a) ☐

PHYSICAL STATE CONTAINED ☐ SOLID ☐ LIQUID ☐ GAS

PHYSICAL STATE RELEASED ☐ SOLID ☐ LIQUID ☐ GAS

QUANTITY RELEASED

ENVIRONMENTAL CONTAMINATION ☐ AIR ☐ WATER ☐ GROUND ☐ OTHER

TIME OF RELEASE

DURATION OF RELEASE ___DAYS ___HOURS ___MINUTES

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

H

COMMENTS (INDICATE SECTION [A-G] AND ITEM WITH COMMENTS OR ADDITIONAL INFORMATION)

I

CERTIFICATION: I certify under penalty of law that I have personally examined and I am familiar with the information submitted and believe the submitted information is true, accurate, and complete.

REPORTING FACILITY REPRESENTATIVE (print or type) _____

SIGNATURE OR REPORTING FACILITY REPRESENTATIVE _____ DATE: _____

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION DATA

F DERICK GUMM CHEMICAL COMPANY, INC.
5.. 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 88-A

D.O.T. HAZARD CLASS - Non-DOT Regulated
CHEMICAL FAMILY - Alkaline cleaner
CHEMICAL NAME/SYNONYMS - CLEPO 88-A
FORMULA - Mixture
MSDS REVIEWED BY - Keith Frey, V.P. Quality & Regulatory Affairs

Effective Date:
07-05-93

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:

Health	(Blue)	- 1
Flammability	(Red)	- 0
Reactivity	(Yellow)	- 1

DEGREE OF HAZARD

4=Extreme
3=High
2=Moderate
1=Slight
0=Insignficant

SECTION 4 - REACTIVITY DATA

ſ 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	TLV	PEL	LD50	%
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
ɔrate Decahydrate	1303-96-4	5	NF	2660	10.0

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

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.

SECTION 6 - SPILL, LEAK, AND DISPOSAL PROCEDURES continued

WASTE DISPOSAL METHODS:
Waste should not be discharged directly into sewers or streams.
Neutralize to a locally acceptable pH, depending on usage and locality.
May also require precipitation and filtration of heavy metals.

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.

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. 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.

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
201-991-4174 Information

CLEPO 197-A

D.O.T. HAZARD CLASS - Corrosive Solid NOS
CHEMICAL FAMILY - Acid salt
CHEMICAL NAME/SYNONYMS - CLEPO 197-A
FORMULA - Mixture
MSDS REVIEWED BY - Keith Frey, V.P. Quality & Regulatory Affairs

Effective Date:
01-26-90

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:

Health	(Blue)	- 3
Flammability	(Red)	- 0
Reactivity	(Yellow)	- 1

DEGREE OF HAZARD

4=Extreme
3=High
2=Moderate
1=Slight
0=Insignficant

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	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

= 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.

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.

EYE 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

ACUTE: 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.

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.

SECTION 7 - HEALTH HAZARD DATA continued

INGESTION: 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

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.

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

SECTION 1 - IDENTIFICATION DATA

I DERICK GUMM CHEMICAL COMPANY, INC.
536 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 198-JA

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

Effective Date:
12-02-94

CHEMICAL FAMILY - (Cnts Ammonium Hydrogen Fluoride)
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 (H2O=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:

Health	(Blue)	- 3
Flammability	(Red)	- 0
Reactivity	(Yellow)	- 1

DEGREE OF HAZARD

4=Extreme
3=High
2=Moderate
1=Slight
0=Insignficant

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	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 = 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.

SECTION 6 - SPILL, LEAK, AND DISPOSAL PROCEDURES continued

WASTE 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.

EYE 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

ACUTE: 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.

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.

SECTION 7 - HEALTH HAZARD DATA continued

INGESTION: 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

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.

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.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION DATA

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
201-991-4174 Information

CLEP-ETCH-A

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

Effective Date:
06-24-94

CHEMICAL FAMILY - (Contains Ammonium Bifluoride)
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 (H2O=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:
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:

Health	(Blue)	- 3
Flammability	(Red)	- 0
Reactivity	(Yellow)	- 1

DEGREE OF HAZARD

4=Extreme
3=High
2=Moderate
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:
NA
ALLOYS AND METALLIC COATINGS:
NA

HAZARDOUS COMPONENTS	CAS NUMBER	TLV	PEL	LD50	%
Ammonium Bifluoride	1341-49-7	2.5	2.5	350	100.

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

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. 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.

EYE 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

ACUTE: 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.

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.

SECTION 7 - HEALTH HAZARD DATA continued

INGESTION: 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

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.

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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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/m³	None listed	2 mg/m³

SECTION 3 - PHYSICAL PROPERTIES

Appearance and Odor: A clear liquid, no odor.

Molecular Weight: 40.

Boiling Point (Degrees Fahrenheit): 284.

Melting Point (Degrees Fahrenheit): ~41.

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

Specific Gravity (Water = 1): 1.53.

Vapor Density (Air = 1): Not available.

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

pH: >12.5.

Solubility in Water: Complete.

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

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.

Incompatibility (Materials to Avoid): 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.

Effects of Overexposure: Sodium hydroxide is a strong alkali and is destructive of all 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.

Ingestion: Get medical attention immediately. Immediately dilute by drinking large quantities of water. Do not induce vomiting.

SECTION 7 - TOXICITY DATA

Oral: LD_{Lo} (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).

Ventilation

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.

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

Clean Water Act Requirements: 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

FDA: 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.

DOT: Regulated.

Proper Shipping Name: Sodium Hydroxide, Solution.
Identification No.: UN 1824.
Hazard Class: 8.
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 11 - SPECIAL PRECAUTIONS 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

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
201-991-4174 Information

CLEPO 500-DX

D.O.T. HAZARD CLASS - Non-DOT Regulated
CHEMICAL FAMILY - Peroxygen Salt
CHEMICAL NAME/SYNONYMS - CLEPO 500-DX
FORMULA - Mixture
MSDS REVIEWED BY - Keith Frey, V.P. Quality & Regulatory Affairs

Effective Date:
07-29-94

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 (H2O=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:

Health	(Blue)	- 2
Flammability	(Red)	- 0
Reactivity	(Yellow)	- 1

DEGREE OF HAZARD

4=Extreme
3=High
2=Moderate
1=Slight
0=Insignficant

SECTION 4 - REACTIVITY DATA

BILITY: Stable
CONDITIONS TO AVOID: NA

INCOMPATIBILITY:
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:
NA
ALLOYS AND METALLIC COATINGS:
NA

HAZARDOUS COMPONENTS	CAS NUMBER	TLV	PEL	LD50	%
Potassium Peroxymonosulfate	10058-23-8	NF	NF	2000	43.0
Potassium Bisulfate	7646-93-7	NF	NF	NF	23.0

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

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

SECTION 6 - SPILL, LEAK, AND DISPOSAL PROCEDURES continued

WASTE 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.
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.
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.

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.

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.

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.

TECHNICAL BULLETIN

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:

1. 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.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION DATA

I DERICK GUMM CHEMICAL COMPANY, INC.
5ɔƌ 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 569-NA

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

Effective Date:
10-24-94

CHEMICAL FAMILY - (Contains Ferric Sulfate)
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 (H2O=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:

Health	(Blue)	- 3
Flammability	(Red)	- 0
Reactivity	(Yellow)	- 1

DEGREE OF HAZARD

4=Extreme
3=High
2=Moderate
1=Slight
0=Insignficant

SECTION 4 - REACTIVITY DATA

ƒ 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	TLV	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

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

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.

SECTION 6 - SPILL, LEAK, AND DISPOSAL PROCEDURES continued

TE 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 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.
SKIN CONTACT: This product can cause irritation or severe burns depending on the severity of exposure.
SKIN ABSORPTION: See SKIN CONTACT above.
EYE CONTACT: Liquid contact may cause irritation, corneal burns, and conjunctivitis. Blindness may result, or severe or permanent injury. Mist contact may irritate or burn.
INGESTION: Can cause irritation and corrosive burns of mouth, throat, and stomach. Can be fatal if swallowed.

EFFECTS OF OVEREXPOSURE

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

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 cannot 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.

SECTION 7 - HEALTH HAZARD DATA continued

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.

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 footwear 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

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
201-991-4174 Information

D.O.T. HAZARD CLASS - Non-DOT Regulated
CHEMICAL FAMILY - Aqueous Mixture
CHEMICAL NAME/SYNONYMS - CLEPO 569-NB
FORMULA - Mixture
MSDS REVIEWED BY - Keith Frey, V.P. Quality & Regulatory Affairs

Effective Date:
07-19-94

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 (H2O=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

NFPA HAZARD CLASSIFICATION:

Health	(Blue)	- 1
Flammability	(Red)	- 0
Reactivity	(Yellow)	- 0

DEGREE OF HAZARD

4=Extreme
3=High
2=Moderate
1=Slight
0=Insignficant

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:
NA
ALLOYS AND METALLIC COATINGS:
NA

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.

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& - 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

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.
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. 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 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.

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.

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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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

SECTION 1 - IDENTIFICATION DATA

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
201-991-4174 Information

CLEPO BONDAL

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

Effective Date:
02-24-96

CHEMICAL FAMILY - (Contains Sodium Hydroxide)
CHEMICAL NAME/SYNONYMS - CLEPO BONDAL
FORMULA - 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:

Health	(Blue)	- 3
Flammability	(Red)	- 0
Reactivity	(Yellow)	- 1

DEGREE OF HAZARD

4=Extreme
3=High
2=Moderate
1=Slight
0=Insignficant

SECTION 4 - REACTIVITY DATA

ς 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:
NA
ALLOYS AND METALLIC COATINGS:
NA

HAZARDOUS COMPONENTS	CAS NUMBER	TLV	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**
&-Zinc Sulfate (zinkosite)	**7733-02-0**	**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

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.

SECTION 6 - SPILL, LEAK, AND DISPOSAL PROCEDURES continued

W 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.

SECTION 7 - HEALTH HAZARD DATA continued

INHALATION: 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.

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 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

SECTION 1 - IDENTIFICATION DATA

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
201-991-4174 Information

CLEPO BONDAL ACTIVATOR

D.O.T. HAZARD CLASS - Corrosive Poison NOS
CHEMICAL FAMILY - Sodium Hydroxide/Cyanide
CHEMICAL NAME/SYNONYMS - CLEPO BONDAL ACTIVATOR
FORMULA - Mixture
MSDS REVIEWED BY - Keith Frey, V.P. Quality & Regulatory Affairs

Effective Date:
01-31-90

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:
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.

NFPA HAZARD CLASSIFICATION:

Health	(Blue)	- 3
Flammability	(Red)	- 0
Reactivity	(Yellow)	- 1

DEGREE OF HAZARD

4=Extreme
3=High
2=Moderate
1=Slight
0=Insignficant

SECTION 4 - REACTIVITY DATA

ʃ 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:
NA
ALLOYS AND METALLIC COATINGS:
NA

HAZARDOUS COMPONENTS	CAS NUMBER	TLV	PEL	LD50	%
Sodium Hydroxide (Caustic Soda)	1310-73-2	C 2	2	240	92.5
&-Potassium Cyanide (as CN (skin))	**151-50-8**	**5**	**5**	**6.44**	**3.38**

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

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. DILUTE SODIUM OR CALCIUM HYPOCHLORITE MAY BE USED TO NEUTRALIZE FINAL TRACES IMMED IATELY AFTER FLUSHING. AVOID CONTACT WITH ACIDS, AND ACID WASTE.

SECTION 6 - SPILL, LEAK, AND DISPOSAL PROCEDURES continued

V 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.

SECTION 7 - HEALTH HAZARD DATA continued

I **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.

INGESTION: NEVER give anything by mouth to an unconscious person. If 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.

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 values.

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

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

I **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

SECTION 1 - IDENTIFICATION DATA

F DERICK GUMM CHEMICAL COMPANY, INC.
5.. 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 ADDITION AGENT

D.O.T. HAZARD CLASS - Environmentally Hazardous Solid **Effective Date:**
CHEMICAL FAMILY - Nickel Sulfate/Zinc Sulfate Mix 01-06-94
CHEMICAL NAME/SYNONYMS - CLEPO BONDAL ADDITION AGENT
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
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:

Health	(Blue)	- 2
Flammability	(Red)	- 0
Reactivity	(Yellow)	- 1

DEGREE OF HAZARD

4=Extreme
3=High
2=Moderate
1=Slight
0=Insignficant

SECTION 4 - REACTIVITY DATA

ſ 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:
NA
ALLOYS AND METALLIC COATINGS:
NA

HAZARDOUS COMPONENTS	CAS NUMBER	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
#&Nickel Sulfate (as soluble Nickel)	7786-81-4	0.1	0.1	200	11.5

ſ = 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 solution may be used to neutralize final traces immediately after flushing

SECTION 6 - SPILL, LEAK, AND DISPOSAL PROCEDURES continued

W 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.
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.
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.

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.

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.

DIXCO

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

U.S. Department of Labor
Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072

IDENTITY (As used on Label and List)
Nickel Chloride
C.A.S.# 7718-54-9

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

A. Lewis

SECTION II - Hazardous Ingredients/Identity Information

Hazardous Components	Common Names	OSHA PEL	ACGIH TLV	Other Limits	% (Opt.)
Nickel Chloride	Nickel Chloride	0.1 mg/m³	0.1 mg/m³	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

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.

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

Eye 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.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION DATA

J 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
201-991-4174 Information

GEMINI 85 LEVELER

D.O.T. HAZARD CLASS - Non-DOT Regulated
CHEMICAL FAMILY - Nickel Brightener
CHEMICAL NAME/SYNONYMS - GEMINI 85 LEVELER
FORMULA - Mixture
MSDS REVIEWED BY - Keith Frey, V.P. Quality & Regulatory Affairs

Effective Date:
05-27-92

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

NFPA HAZARD CLASSIFICATION:

Health	(Blue)	- 1
Flammability	(Red)	- 0
Reactivity	(Yellow)	- 0

DEGREE OF HAZARD

4=Extreme
3=High
2=Moderate
1=Slight
0=Insignficant

SECTION 4 - REACTIVITY DATA

ş 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:
NA
ALLOYS AND METALLIC COATINGS:
NA

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 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

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. 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 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.

SECTION 8 - SPECIAL HANDLING PROCEDURES

RESPIRATORY: 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 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.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION DATA

I DERICK GUMM CHEMICAL COMPANY, INC.
5.6 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 850 RACK MAINTENANCE

D.O.T. HAZARD CLASS - Non-DOT Regulated
CHEMICAL FAMILY - Nickel Brightener
CHEMICAL NAME/SYNONYMS - GEMINI 850 RACK MAINTENANCE
FORMULA - Mixture
MSDS REVIEWED BY - Keith Frey, V.P. Quality & Regulatory Affairs

Effective Date:
05-27-92

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 (H2O=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

NFPA HAZARD CLASSIFICATION:

Health	(Blue)	- 1
Flammability	(Red)	- 0
Reactivity	(Yellow)	- 0

DEGREE OF HAZARD

4=Extreme
3=High
2=Moderate
1=Slight
0=Insignficant

SECTION 4 - REACTIVITY DATA

ʃ 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
ALLOYS AND METALLIC COATINGS:
NA

HAZARDOUS COMPONENTS	CAS NUMBER	TLV	PEL	LD50	%
#-Saccharin	81-07-2	NF	NF	NF	6.44

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

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

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. 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 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.

SECTION 8 - SPECIAL HANDLING PROCEDURES

RESPIRATORY: 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.

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
201-991-4174 Information

GEMINI ADDITIVE 55

D.O.T. HAZARD CLASS - Non-DOT Regulated
CHEMICAL FAMILY - Nickel Brightener
CHEMICAL NAME/SYNONYMS - GEMINI ADDITIVE 55
FORMULA - Mixture
MSDS REVIEWED BY - Keith Frey, V.P. Quality & Regulatory Affairs

Effective Date:
09-28-92

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 (H2O=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:

Health	(Blue)	- 2
Flammability	(Red)	- 0
Reactivity	(Yellow)	- 0

DEGREE OF HAZARD

4=Extreme
3=High
2=Moderate
1=Slight
0=Insignficant

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:
NA
ALLOYS AND METALLIC COATINGS:
NA

HAZARDOUS COMPONENTS	CAS NUMBER	TLV	PEL	LD50	%
#&Formaldehyde	50-00-0	2	NF	800	0.04

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

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

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. 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 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.

SECTION 8 - SPECIAL HANDLING PROCEDURES

RESPIRATORY: 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.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION DATA

F DERICK GUMM CHEMICAL COMPANY, INC.
5[illegible] 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 992-N

D.O.T. HAZARD CLASS - Non-DOT Regulated
CHEMICAL FAMILY - Nickel Brightener
CHEMICAL NAME/SYNONYMS - CLEPO 992-N
FORMULA - Mixture
MSDS REVIEWED BY - Keith Frey, V.P. Quality & Regulatory Affairs

Effective Date:
06-27-94

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:

Health	(Blue)	- 1
Flammability	(Red)	- 0
Reactivity	(Yellow)	- 0

DEGREE OF HAZARD

4=Extreme
3=High
2=Moderate
1=Slight
0=Insignficant

SECTION 4 - REACTIVITY DATA

ŝ 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
ALLOYS AND METALLIC COATINGS:
NA

HAZARDOUS COMPONENTS	CAS NUMBER	TLV	PEL	LD50	%
#-Saccharin	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 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

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. 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 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.

SECTION 8 - SPECIAL HANDLING PROCEDURES

RESPIRATORY: 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 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.

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
201-991-4174 Information

CLEPO NICKEL PURIFIER CA

D.O.T. HAZARD CLASS - Non-DOT Regulated
CHEMICAL FAMILY - Nickel Brightener
CHEMICAL NAME/SYNONYMS - CLEPO NICKEL PURIFIER CA
FORMULA - Mixture
MSDS REVIEWED BY - Keith Frey, V.P. Quality & Regulatory Affairs

Effective Date:
09-17-91

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 (H2O=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:

Health	(Blue)	- 1
Flammability	(Red)	- 0
Reactivity	(Yellow)	- 0

DEGREE OF HAZARD

4=Extreme
3=High
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:
NA
ALLOYS AND METALLIC COATINGS:
NA

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 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

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. 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 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.

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.

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION DATA

F DERICK GUMM CHEMICAL COMPANY, INC.
5.. 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
CHEMICAL FAMILY - Nickel Brightener
CHEMICAL NAME/SYNONYMS - CLEPO NICKEL WETTER AG-1
FORMULA - Mixture
MSDS REVIEWED BY - Keith Frey, V.P. Quality & Regulatory Affairs

Effective Date:
09-08-92

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:

Health	(Blue)	- 1
Flammability	(Red)	- 0
Reactivity	(Yellow)	- 0

DEGREE OF HAZARD

4=Extreme
3=High
2=Moderate
1=Slight
0=Insignficant

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
ALLOYS AND METALLIC COATINGS:
NA

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 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

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. 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 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.

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.

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