



GARDEN GROVE FIRE DEPARTMENT

Life Safety & Hazardous Materials Disclosure Program

11301 Acacia Parkway, Garden Grove, CA 92842
Bus 714-741-5600 Fax 714-741-5640

File # 194
Fire District 2214
Inspector FPB Shift N
Next Insp 7 / 2013

Occupant or DBA	FTB & SON INC.		Business Tel	714 891-8003	
Address	11551 MARKON Dr	Suite	Zip	92841	
Business Owner	[REDACTED]		Tel	714 544-7387	
Emergency Contact	[REDACTED]		Tel	714 544-7387	
Group	F1	Load	Sprinklers F/P/N	F	5 yr. Cert. 10-1-2007
					Haz Mat <input checked="" type="checkbox"/>

Fire Permits 801031 HAZARDOUS MATERIALS - use, handling or storage, 491011 HOT WORK - welding and cutting / open flame. 811031 HIGH-PILED COMBUSTIBLE STOCK. 761021 DUST PRODUCING IN F OCCUPANCIES.

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

ASSEMBLY OCCUPANCIES

- Post maximum occupancy load sign (CFC 1004.3)
- Remove combustible decorative material (CFC 807.1.2)
- Remove storage under stairway (CFC 315.2.4)

SIGNS

- Provide address visible from the street (CFC 505.1)
- Provide hazardous materials warning signs (CFC 2703.5)

EXITS

- Provide/maintain approved panic hardware (CFC 1008.1.10)
- Remove locks, chains, bolts or bars from exit door (CFC 1008.1.9)
- Remove exit obstruction (CFC 1003.6) **MOVE 28' Down**
- Provide/maintain illuminated exit sign(s) (CFC 1011.1) **17' OK**

ACCESS

- Provide outside Knox Box (CFC 506.1)
- Remove obstructions to fire apparatus access (CFC 503.4)

FIRE PROTECTION EQUIPMENT AND SYSTEMS

- Provide ___ extinguishers ___2A10BC ___40BC ___K (CFC 906.1)
- Service and tag extinguisher(s) (CFC 901.6)
- Hang extinguisher(s) 3.5'-5' from floor (CFC 906.9)
- Clean filters, ducts, hood above cooking surface (CFC 904.1)
- Service auto-extinguishing system semi-annually (CFC 904.11.6.2)
- 5 yr certification on sprinkler/standpipe system (Title 19, Sect. 904)

MISCELLANEOUS

- Lower storage 18" below sprinklers or 2' from ceiling (CFC 315.2.1)
- Secure compressed gas cylinders (CFC 3003.5.3)
- Post Business License Fire Department permit (CFC 105.3.5)

NO VIOLATIONS

ADDITIONAL VIOLATIONS AND/OR NOTES

ELECTRICAL SAFETY PRE-CAUTIONS

- Discontinue use of extension cords (CFC 605.5)
- Keep 30" clear for access in front of electrical panel (CFC 605.3)
- Provide/replace electrical Cover Socket Power Strip (CFC 605.1)

HAZ-MAT SAFETY PRE-CAUTIONS

- Provide approved cabinet if more than 10 gal. flammable liquids (CFC 3404.3.4.3)
- Provide approved safety container(s) for flammable liquids (CFC 3404.3.1)

HAZARDOUS MATERIALS DISCLOSURE

(HSC CHAPTER 6.95 Section 25404, 25500 - 25520)

- Failure to implement and/or electronically submit a HMBP www.esubmit.ocgov.com **8/27/13**
- Chemical inventory is incomplete and/or requires updating
- The Emergency Response Plan is inadequate and/or does not adequately address Notification, Mitigation, Evacuation and/or Employee Training
- Site Map is incomplete or insufficient
- Failure to report a change in business or chemical inventory within 30 days of the following :
 - 100% or more increase in the quantity of a disclosed material
 - Addition of a previously undisclosed material
 - Change of business name or owner
- Failure to report a release or threatened release
- Failure to submit annual certification

- NO VIOLATIONS
- MINOR VIOLATION
- CLASS I VIOLATION
- CLASS II VIOLATION

Business representative signature [Signature] Date 8/27/13
Inspector Name/ ID # 2867 Date 8/27/13

Cleared 8/27/13 Mailback card due Re-inspection date Final Notice

JB



**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: FTB & SON INC. Telephone: (714) 691-8003
Site Address: 11551 MARCON DRIVE Zip Code: 92841

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.
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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 Kathy L. Murphy

Job Title Controller

Fire Department Inspector B. HASTING

Signature [Handwritten Signature]

Date 4-27-10

ID # 0020



**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: F.T.B. : SON INC.

Telephone: 714-891-8003

Site Address: 11551 MARKON DRIVE

Zip Code: 92841

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Print Name Kathy L. Murphy-Ayers

Signature [Handwritten Signature]

Job Title CFO

Date 7-21-10

Fire Department Inspector _____

ID # _____



CITY OF GARDEN GROVE FIRE DEPARTMENT

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

FORM 1

Hazardous Materials Business Information Form

Page ___ of ___ 3

BUSINESS INFORMATION

FACILITY # (Supplied by GGFD)	3 0 0 3 5	BEGINNING DATE	1	ENDING DATE	2
BUSINESS NAME	FTB & SON, INC.			BUSINESS PHONE	5
BUSINESS SITE ADDRESS	11551 MARKON DR.				
CITY	GARDEN GROVE	7	STATE CA	8	ZIP 92841-1808
DUN & BRADSTREET	10	SIC CODE (4 DIGIT #)	11	FIRE DISTRICT	12
COUNTY	ORANGE				
BUSINESS OPERATOR NAME	[REDACTED]			14	15

BUSINESS OWNER

OWNER NAME	[REDACTED]	16	OWNER PHONE	17
OWNER MAILING ADDRESS	11646 LAS LUCES			
CITY	SANTA ANA	19	STATE CA	20
			ZIP	21
			92705	

ENVIRONMENTAL CONTACT

CONTACT NAME	[REDACTED]			22	CONTACT PHONE	23
CONTACT MAILING ADDRESS	SANTA ANA BUSINESS OWNER					
CITY	[REDACTED]	25	STATE	26	ZIP	
					27	

PRIMARY EMERGENCY CONTACTS SECONDARY

PRIMARY		EMERGENCY CONTACTS		SECONDARY	
NAME	[REDACTED]	28	NAME	[REDACTED]	33
TITLE	CEO	29	TITLE	CEO	34
BUSINESS PHONE	714-891-8003	30	BUSINESS PHONE	714-891-8003	35
24-HR. PHONE	[REDACTED]	31	24-HR. PHONE	[REDACTED]	36
PAGER#	CELL [REDACTED]	32	PAGER#	CELL [REDACTED]	37

ADDITIONAL LOCALLY COLLECTED INFORMATION

DESCRIBE THE TYPE OF BUSINESS OPERATION:	LIGHT METAL FABRICATION	38	TOTAL # OF EMPLOYEES	39
BILLING ADDRESS (IF DIFFERENT FROM ABOVE)	[REDACTED]			40
ATTENTION	KATHY MURPHY			
PROPERTY OWNER NAME	[REDACTED]	2	ADDRESS	43
			11646 LAS LUCES SA, CA 92705	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	[REDACTED]	45	DATE	46
			7-25-07	
NAME OF SIGNER (print)	[REDACTED]	47	NAME OF DOCUMENT PREPARER (p)	[REDACTED]
TITLE OF SIGNER	CEO	48	TITLE OF DOCUMENT PREPARER	CEO



**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: FTB + SON INC.

Telephone: (714) 891-8003

Site Address: 11551 MARKON

Zip Code: 92841

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

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(Please check applicable boxes.)

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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: [Redacted]

Signature: [Handwritten Signature]

Job Title: C.F.O.

Date: 7/18/07

Fire Department Inspector: M. KORDICH/D. GARCIA

ID #: 3307/3592



**FIRE SAFETY SURVEY
GARDEN GROVE FIRE DEPARTMENT**

11301 Acacia Parkway, Garden Grove, CA 92842
Bus 714-741-5600 Fax 714-741-5640

File # 194
Fire District 2214
Inspector FPB Shift N
Next Insp 7 / 2007

Occupant or DBA FTB & SON INC. Business Phone 714 891-8003
 Address 11551 MARKON Suite _____ Zip 92841
 Property Owner [REDACTED] Phone 714 544-7387
 Emergency Contact [REDACTED] Phone [REDACTED]
 Group F-1 Load _____ Sprinklers F/P/N F 5 yr. Cert. 06/28/2003 Haz Mat

Fire Permits

801031 HAZARDOUS MATERIALS - use, handling or storage, 491011 HOT WORK - welding and cutting / open flame,

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

SIGNS

- Provide address visible from the street (CFC 901.44)
- Provide hazardous materials warning signs (CFC 8001.7)

EXITS

- Provide approved panic hardware (CFC 1207.4)
- Remove locks, chains, bolts or bars from exit door (CFC 1207.3)
- Remove exit door/hardware (CFC 1207.1)
Location Fabrication
- Remove exit obstruction (CFC 1203) punch room
- Provide illuminated exit sign(s) (CFC 1212.4) ↓↓ "

ACCESS

- Provide outside Kn
- Remove obstruction

FIRE PROTECTION

- Provide ___ extingu
- Service and tag ext
- Hang extinguisher(
- Clean filters, ducts
- Service auto-exting
- 5 yr certification on

NO VIOLATION

ADDITIONAL VIOLATIONS

steel - pro
 remove compressed gas cylinder.
empty

ASSEMBLY OCCUPANCIES

- Post maximum occupancy load sign (CFC 2501.16.1)
- Remove combustible decorative material (CFC 2501.5)
- Remove storage under stairway (CFC 1210.3)

ELECTRICAL SAFETY PRE-CAUTION!

- Discontinue use of extension cords (CFC 8506)
- Keep 30" clear for access in front of electrical panel (CFC 8509.2)
- Provide/replace electrical X cover ___ socket ___ power strip (CFC 8509.2)
Location vacant office

HAZ-MAT SAFETY PRE-CAUTIONS

- Complete Hazardous Materials Disclosure packet 714-741-5636 (CFC 7902.1)
- Provide approved cabinet if more than 10 gal. flammable liquids (CFC 7902.5.9)
- Provide approved safety containers(s) for flammable liquids (CFC 1103.3.3.2)

MISCELLANEOUS

- Lower storage ___ 18" below sprinklers or < 2' from ceiling (CFC 1103.3.3.2) computer room
- Secure compressed gas cylinders (CFC 7401.6.4)
- Post ___ Business License ___ Fire Department Permit (CFC 105.5)

see stock in overheads.
door storage. (OK) (OK)

PREVENTION SIDE IS DONE. HAZ-MAT PACKET STILL NEEDS TO BE FINISHED

Business representative signature [Signature] Date 6-4-07
Inspector ID # 3818 / Sarmiento Date 6/4/07

Cleared 7/16/07 Mailback card due 1/1 Re-inspection date 6/18/07 Final Notice 1/1
6/25/07



FIRE SAFETY SURVEY
GARDEN GROVE FIRE DEPARTMENT

11301 Acacia Parkway, Garden Grove, CA 92842
Bus 714-741-5600 Fax 714-741-5640

File # 194
Fire District 2214
Inspector FPB Shift N
Next Insp 7 / 2006

Occupant or DBA FTB & SON INC. Business Phone 714 891-8003
Address 11551 MARKON Suite Zip 92841
Property Owner [Redacted] Phone [Redacted]
Emergency Contact [Redacted] Phone [Redacted]
Group Load Sprinklers F/P/N F 5 yr. Cert. 06/28/2003 Haz Mat [checked]

Fire Permits

801031 HAZARDOUS MATERIALS - use, handling or storage, 491011 HOT WORK - welding and cutting,

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

SIGNS

- Provide address visible from the street (CFC 901.44)
Provide hazardous materials warning signs (CFC 8001.7)

EXITS

- Provide approved panic hardware (CFC 1207.4)
Remove locks, chains, bolts or bars from exit door (CFC 1207.3)
Remove exit door/hardware (CFC 1207.1)
Remove exit obstruction (CFC 1203)
Provide illuminated exit sign(s) (CFC 1212.4)

ACCESS

- Provide outside Knox Box (CFC 902.4)
Remove obstructions to fire apparatus access (CFC 902.2.4.1)

FIRE PROTECTION EQUIP. AND SYS.

- Provide extinguishers (CFC 1002.1)
Service and tag extinguisher(s) (CFC 1001.5.1)
Hang extinguisher(s) 3.5'-5' from floor (Title 19, Sec.567.6)
Clean filters, ducts, hood above cooking surface (CFC 1005.2.8)
Service auto-extinguishing system semi-annually (CFC 1005.2.8)
5 yr certification on sprinkler/standpipe system (Title 19, Sect. 904)

[checked] NO VIOLATIONS

ADDITIONAL VIOLATIONS AND/OR NOTES

Appt SCHED 9.7.06 @ 10:00 am

- VERBAL - Cleanup Times

Business representative signature [Signature] Date 9-7-06
Inspector ID # WOLFFARTH Date 9.7.06

[checked] Cleared 9/7/06 Mailback card due Re-inspection date Final Notice

Handwritten mark



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

Address: 11551 MARKON
 Occupant or DBA: FTB & SON INC.
 Owner/Manager: [REDACTED]

Date: 07-18-07
 File No: 194
 Phone: [REDACTED]

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:

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: M. KORDICH / D. GARCIA ID #: 3307/3592

Condition Upon Re-inspection: _____ Date: _____



**GARDEN GROVE FIRE DEPARTMENT
ENVIRONMENTAL PROTECTION SECTION**

11301 Acacia Parkway
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Business: 714 741-5600 Haz Mat: 714 741-5636

**Hazardous Materials Business Emergency Plan And
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Business Name: FTB: SON INC Telephone: 714/891-8003
Site Address: 11551 MARKON DR, GARDEN GROVE Zip Code: 92841
92841

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Print Name [REDACTED]
Job Title OFFICE Mgr

Signature [Handwritten Signature]
Date 3/1/01

UNIFIED PROGRAM CONSOLIDATED FORM

FACILITY INFORMATION

BUSINESS ACTIVITIES

Page 1 of _____

I. FACILITY IDENTIFICATION											
FACILITY ID#										1. EPA ID # (Hazardous Waste Only)	2.

BUSINESS NAME (Same as FACILITY NAME or DBA-Doing Business As)	3.
<p style="font-size: 1.2em; margin: 0;"><i>F.T.B. SON INC.</i></p>	

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 CFR Parts 30, 40 or 70?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 4.	<input checked="" type="checkbox"/> HAZARDOUS MATERIALS INVENTORY - CHEMICAL DESCRIPTION (OES 2731)
B. UNDERGROUND STORAGE TANKS (USTs) 1. Own or operate underground storage tanks? 2. Intent to upgrade existing or install new USTs? 3. Need to report closing a UST?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 5. <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 6. <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 7.	<input checked="" type="checkbox"/> UST FACILITY (Formerly SWRCB Form A) <input checked="" type="checkbox"/> UST TANK (one page per tank) (Formerly Form B) <input checked="" type="checkbox"/> UST FACILITY <input checked="" type="checkbox"/> UST TANK (one per tank) <input checked="" type="checkbox"/> UST INSTALLATION - CERTIFICATE OF COMPLIANCE (one page per tank) (Formerly Form C) <input checked="" type="checkbox"/> 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?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 8.	<input checked="" type="checkbox"/> NO FORM REQUIRED TO CUPAS
D. HAZARDOUS WASTE 1. Generate hazardous waste? 2. Recycle more than 100 kg/month of excluded or exempted recyclable materials (per HSC §25143.2)? 3. Treat hazardous waste on site? 4. Treatment subject to financial assurance requirements (for Permit by Rule and Condition Authorization)? 5. Consolidate hazardous waste generated at a remove site? 6. Need to report the closure/removal of a tank that was classified waste and cleaned onsite?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 9. <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 10. <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 11. <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 12. <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 13. <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 14.	<input checked="" type="checkbox"/> EPA ID NUMBER - provide at the top of this page <input checked="" type="checkbox"/> RECYCLABLE MATERIALS REPORT (one per recycler) <input checked="" type="checkbox"/> ONSITE HAZARDOUS WASTE TREATMENT - FACILITY (Formerly DTSC Forms 1772) <input checked="" type="checkbox"/> ONSITE HAZARDOUS WASTE TREATMENT - UNIT (one page per unit) (Formerly DTSC Forms 1772A,B,C,D and L) <input checked="" type="checkbox"/> CERTIFICATION OF FINANCIAL ASSURANCE (Formerly DTSC Form 1232) <input checked="" type="checkbox"/> REMOTE WASTE/CONSOLIDATION SITE ANNUAL NOTIFICATION (Formerly DTSC Form 1196) <input checked="" type="checkbox"/> HAZARDOUS WASTE TANK CLOSURE CERTIFICATION (Formerly DTSC Form 1249)

E. LOCAL REQUIREMENTS <p align="center">(You may also be required to provide additional information by your CUPA or local agency.)</p>	15.
--	-----



**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: F.T.B. SON INC
Site Address: 11551 MARKON DRIVE

Telephone: 714-891-8003
Zip Code: 92841-1808

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.

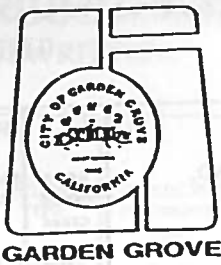
THIS IS TO CERTIFY THAT THE HMBEP AND/OR CHEMICAL INVENTORY HAS BEEN REVIEWED.
(Please check applicable boxes):

- 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 [REDACTED]
Job Title MANAGER

Signature [Handwritten Signature]
Date 4/27/00



CITY OF GARDEN GROVE, CALIFORNIA
MAILING ADDRESS: P.O. BOX 3070, GARDEN GROVE, CALIFORNIA 92842
714-741-5600

"FTB & SON INC."

BUSINESS EMERGENCY PLAN

Business Name F.T.B. & SON INC.
Business Address 11551 MARKON DR. City GARDEN GROVE State CA Zip 92841
Mailing Address SAME City _____ State _____ Zip _____
Business Phone [REDACTED] Business License # 140829
Fax Number (714) 892-0644

Owner/Operator: Name [REDACTED] Phone Number [REDACTED]
Address 11646 LAS LUCAS City SANTA ANA State CA Zip 92705

Type of Business Operation Light metal FABRICATION

EPA # -N/A- SIC Code 3444

Emergency Contacts: Name [REDACTED]
Address [REDACTED] City [REDACTED] State CA Zip [REDACTED]
24 Hour Phone Number [REDACTED] Phone Number [REDACTED]

Property Owner: Name [REDACTED] Phone Number [REDACTED]
Address [REDACTED] City [REDACTED] State CA Zip [REDACTED]

Total Number of Employees 57 Dun and Brad Street Numbers 07-360-3078

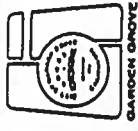
Office Use Only
MLI# _____ Short _____ Long _____ **CHANGE**
REC'D / APPR'V'D SHIRLEY DATE 11/10/97
FEE 1 2 3 4 NEW BUS _____ EXISTG: UPDATE:
MISC _____
TIER II: FAC: CON: BUS LIST: PICK:

BUSINESS NAME: F.T.B. & SON, INC.
 ADDRESS: 1551 MARKON DR., GARDEN GROVE, CA 92841
 MLI # _____ (office use only)

HAZARDOUS MATERIALS DISCLOSURE FORM

THIS FORM IS TO BE TYPEWRITTEN.

DATE: 11-5-97
 PAGE # 1



1. TRADE NAME	2. HAZARDOUS SUBSTANCES IN PRODUCT (top 3 as per % weight on MSDS)	3. CAS NO.	4. SARA Hazard Class Table 1	5. Physical State Table 2	6. MAX. DAILY AMOUNT Table 3	7. AVG. DAILY AMOUNT Table 3	8. DAYS ON SITE	9. CONTAINER TYPE Table 4	10. STORAGE CODE (PRESSURE/TEMP.) Table 5	11. LOCATION (NOTE BY QUADRANT AND DESCRIBE AREA)	12. STATE WASTE NUMBER (3 DIGIT CODE)	13. DOT/ UN/NA NUMBER	14. HAZARD CLASS Table 6
1. Acetylene	Acetylene	74-86-2	1	G	30 Cubic	30	365	K	1-1	By west wall near exit - Y quadrant			10
2. Oxygen	Oxygen	7782-44-7	2	G	120 Cubic	120	365	K	1-1	By west wall near exit - Y quadrant			17
3. ARGON	ARGON		2	G			365	K	1-1	By west wall near exit - Y quadrant			15
4. SAFETY Solvent	Ethylene Glycol N-Butyl	Not established	2	L	55 gal	55	365	E	1-1	By east wall next to punch - W quadrant			11
5. Cutting Oil	Distillates (Pet) Solvent, ParaLine Distillates (Pet) Hydro-treated ParaLine PARAFFIN Oils, Sulfurized Liquified Petroleum Gas or Propane	64742-65-0 64742-54-7 68201-54-7 74-98-6	2	L	55 gal	55	365	E	1-1	By truckwell wall near compressor - Z quadrant		49CFR	11
6. PROPANE	Propane		1	L	48 gal	35	365	K	1-1	By Northeast wall near exit and on forklifts			10
7.													
8.													
9.													
10.													
11.													
12.													
13.													
14.													
15.													

Table#1 SARA Hazard

Physical	Health
1-Fire	4-Immediate (Acute)
2-Sudden Release of Pressure	5-Delayed (Chronic)
3-Reactivity	

Table#2 Physical State

P-Pure	S-Solid (Report pounds)
M-Mixture	L-Liquid (Report gallons)
	G-Gas (Report cubic feet)

TABLE # 3 Amount Chart

Value	Amount	Range
00	0	99
01	100	299
02	300	599
03	600	999
04	1000	5999
05	6000	9999
06	10000	19999
07	20000	49999+

Table#4 Container Type

A- Aboveground Tank
B- Bag(s)
C- Box(s)
D- Carboy(s)
E- Drum(s) or Barrel(s)
F- Fixed Pressurized Cylinders
G- Glass Containers
H- In Machinery or Equip.
I- Insulated Tank (Cryogenics)
J- Metal Containers
K- Movable Pressurized Cylinders
L- Plastic Containers
M- Rail Car
N- Silo
O- Tank inside building
P- Underground Tank
Q- Other

Table#5 Storage Code

Pressure	Temperature
1- Ambient	1- Ambient
2- Less than ambient	2- Less than ambient, but not cryogenic
3- Greater than ambient	3 - Greater than ambient
	4 - Cryogenic
* Ambient = room pressure or temperature	

Table#6 Hazard Class (see MSDS sheets for info)

1- Blasting Agent	9- Explosive C	17- Oxidizer
2- Carcinogen	10- Flammable Compressed Gas	18- Pesticide
3- Combustible Liquids	11- Flammable Liquid	19- Poison A
4- Corrosive	12- Flammable Solid	(Compressed Poisonous Gas)
5- Cryogenics	13- Hypergolic	20- Poison B (Solid/Liquid)
6- Etiologic Agents	14- Irritant	21- Pyrophoric or Spontaneously Combustible
7- Explosive A	15- Non Flammable Compressed Gas	22- Radioactive
8- Explosive B	16- Organic Peroxide	

A Hazardous Materials Disclosure Business is required by law to notify the Garden Grove Fire Department within 15 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.
5. Use of a previously undisclosed hazardous material.
6. A 100% increase in the quantity of a previously disclosed material.

	YES	NO
1. Are there any underground storage containers located on the business property?	_____	<u>X</u>
2. Is trade secret protection requested for any of the information included in this disclosure?	_____	<u>X</u>
3. Are there school(s), hospital(s), extended day care or long term health facilities within 1000 feet (straight line distance) of business property?	_____	<u>X</u>
4. Are extremely Hazardous Materials or Acutely Hazardous Materials being handled on business property (State and Federal reporting)?	_____	<u>X</u>

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

Print Name of Owner: _____

Print Name of Document Preparer: _____

Signature of Owner/Operator: _____ Date: 11-5-97

NOTE: Keep a copy of entire disclosure packet for your records.

RETURN THE ORIGINAL DISCLOSURE FORM, BUSINESS PLAN, AND MSDS SHEETS TO THE GARDEN GROVE FIRE DEPARTMENT

BUSINESS EMERGENCY PLAN

Business Name F. T. B. & SON INC.
Business Address 11551 MARKON DRIVE City GARDEN GROVE State CA Zip 92841
Mailing Address SAME City _____ State ____ Zip _____
Business Phone (714) 891-8003
FAX Number (714) 892-0644

Owner/Operator: Name [REDACTED] Phone Number [REDACTED]
Address [REDACTED] City [REDACTED] State CA Zip [REDACTED]

Primary Contact : Name [REDACTED]
Address [REDACTED] City [REDACTED] State CA Zip [REDACTED]
24 Hour Phone Number [REDACTED] Phone Number (714) 891-8003

Type of Business Operation Light sheetmetal fabrication

TABLE OF CONTENTS

INTRODUCTION: Business Emergency Plan - Short Version

- A) Evacuation and Staging Areas
- B) Employee Responsibilities
- C) Training Requirements
- D) Emergency Notifications
- E) Prevention
- F) Site Plan

Hazardous Materials Business Emergency Plan - Short Version

All businesses using, handling or storing hazardous materials that are required to disclose must complete an Business Emergency Plan. The occupancy groups listed below will be permitted to complete a short version of the business plan. The completion of the short form shall be considered the application required in the Health and Safety Code, Title 20, Chapter 6.95, Section 25503.5.

The Chief of the Garden Grove Fire Department in the role of the Administering Agency, allows the following types of businesses to file the short version of the Business Emergency Plan.

1. Gasoline/Diesel service stations. B-1 occupancies.
2. Repair Garages. H-4 occupancies.
3. Dry Cleaners.
4. Businesses, at the Fire Chief's discretion, with less than 10 employees and using materials that are not considered highly or acutely toxic.

The Fire Chief exempts the following portions from the business plan. These exemptions have been established because the materials used in the above-mentioned occupancies are common knowledge to first responding units. The materials pose no significant, unexpected hazard nor do they affect the ability of the administering agency to effectively respond to their release of a hazardous material, and that there are unusual circumstances justifying this exemption.

Exemptions

1. Detailed evacuation plans.
2. Detailed Key employee responsibilities.
3. Training outline.
4. Detailed prevention outline.

The following Short Business Emergency Plan must be completed in order for the exemption to be granted.

Personnel Emergency Notifications and Responsibilities

(A) Employee Evacuation and Staging Areas:

1. The type of (alarm) signal that will be used to initiate an evacuation at the facility:

Paging System

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:

Southwest corner of Parking Lot ("2" Quadrant)

(B) 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.)

N/A

(C) Training Requirements

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

Employee training provided on:

1. Employee responsibility to report any release or threatened release of a hazardous material to:
 - Garden Grove Fire Department at 911
 - Office of Emergency Service 800-852-7550
2. Appointment of person/persons on site who are trained in key role positions. Emergency coordinator, evacuation coordinators, staging area supervisors and documenting officers.
3. Procedures to follow during a release or threatened release of a hazardous material (evacuation to staging areas).
4. Information contained in material safety data sheets.
5. Warning labels/placards.
6. Safe work practices.
7. Use of on site emergency equipment and supplies.
8. Use and location of personal protective equipment.
9. Any chemical, hazardous material or substance that could be encountered in his/her work area.
10. On-site alarm system for evacuation.
11. Discuss possible release of hazardous materials scenario.

(D) Emergency Notifications

A handler of hazardous materials is required to immediately report any release or threatened release of a hazardous material to the Garden Grove Fire Department. Failure to do so may result in criminal and/or civil prosecution. In addition you must notify the State Office of Emergency Services at (800) 852-7550 or (916) 427-4341.

(E) 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 aboveground tank storage areas:
 - a. Isolation and separation of incompatible materials
 - b. Diking areas to contain spills
 - c. Storage on paved ground

2. Compressed and/or cyrogenic 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. Safe work practices are exercised in daily routines.
 - b. Employees who handle hazardous materials are properly trained.
 - c. Material Safety Data Sheet (MSDS) readily available for each hazardous material on the premises.
 - d. Labeling of all materials and storage areas with the product name and hazards associated with the product (drums, piping, tanks, etc.)
 - e. Uniform Fire Code (UFC) requires separation between outside hazardous material storage area or tanks and combustible materials (wood, brush, etc.)
 - f. Posting of "No Smoking" signs where appropriate.

4. Other:

a____

b____

c____

d____

F) Site Plan

Use the symbols below to indicate on the attached sheet specific areas on the Site Plan. The Site Plan should be neat, clean, and drawn to scale if possible.



HAZARDOUS MATERIAL LISTED BY SYMBOL AND NUMBER.

NOTE: THIS NUMBER SHOULD CORRESPOND WITH NUMBERS LISTED ON DISCLOSURE FORM.



ELECTRICAL MAIN



GAS MAIN



WATER MAIN



EVACUATION AREA



NORTH DIRECTIONAL ARROW



INDICATE KNOX BOX LOCATIONS (lock box for keys)



AUTOMATED SPRINKLERED BUILDING **NEEDED ON ALL SPRINKLERED BUILDINGS.**



FIRE DEPARTMENT SPRINKLER CONNECTION



FIRE HYDRANT

Part V Business Site Plan

A) Site Layout Map

Facility Address 11551 MARKON DR., GARDEN GROVE, CA 92841

See Attached



Section IMATERIAL SAFETY DATA SHEET

Supplier's Name: Suburban Propane Division of
National Distillers & Chemical Corp.

Emergency
Phone Number _____

Address _____

Chemical Name: LIQUEFIED PETROLEUM GAS or PROPANE

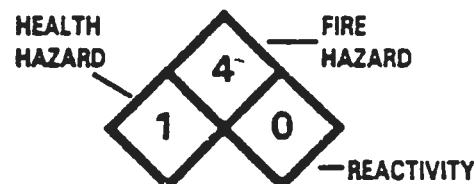
Formula: C_3H_8

CAS Registry No.: 74-98-6 Chemical Family: Hydrocarbon

WARNING: Danger! Extremely flammable.
Compressed Gas. Asphyxiant in high concentrations. Contact with liquid causes burns similar to frost bite. OSHA permissible exposure limit (PEL) 1000 ppm for an 8-hour workday.

Appearance and Odor: Vapor and liquid are colorless.

Product contains an odorant (unpleasant odor).



4 - Severe
3 - Serious
2 - Moderate

1 - Slight
0 - Minimal

Section IIHAZARDOUS INGREDIENTS

Hazardous Mixtures: Air with 2.15 to 9.60 percent propane

Section IIIPHYSICAL DATA

Boiling Point: -44°F

Specific Gravity ($H_2O=1$): 0.51

Vapor Density (air=1): 1.52

Solubility in Water: Slightly

Vapor Pressure (PSIG) at 100°F: 205

Percent, Volatile by Volume (%): 100

Evaporation rate: Gas at normal ambient
temperatures

Section IVFIRE AND EXPLOSION HAZARD DATA

Flash Point: -156°F (CC)

Classification: Flammable Gas UN 1075

Flammable Limits - LFL: 2.15 UFL: 9.60 Extinguishing Media: Water spray-Class A-B-C or BC fire extinguisher. Special Fire Fighting Procedures: Stop flow of gas. Use water to keep fire exposed containers cool. Use water spray to disperse unignited gas or vapor. If ignition has occurred and no water available, tank metal may weaken from overheating. Evacuate area. If gas has not ignited, LP-Gas liquid or vapor may be dispersed by water spray or flooding.

Decomposition Products under Fire Conditions: Fumes, smoke, carbon monoxide, aldehydes and other decomposition products, in the case of incomplete combustion.

"EMPTY" Container Warning: "Empty" containers retain residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to clean since residue is difficult to remove. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

Section VHEALTH HAZARD

OSHA P.E.L.: 1000 PPM ACGIH TLV: 1000 PPM Effects of Overexposure: Inhalation - concentrations can lead to symptoms ranging from dizziness to anesthesia and respiratory arrest. Eyes - moderate irritation.
Emergency & First Aid procedures: Inhalation - remove to fresh air. Guard against self injury. Apply artificial respiration if breathing has stopped.

Section VIREACTIVITY DATA

Stable: X Unstable: _____ Hazardous Decomposition Products: None
 Incompatibility (materials to avoid): Mixing with oxygen or air, except at burner
 Hazardous Polymerization: May occur _____ Will not occur X

Section VIISPILL OR LEAK PROCEDURES

Steps to be taken in case material is released: Keep public away. Shut off supply of gas. Eliminate sources of ignition. Ventilate the area. Disperse with water spray. Contact between skin and these gases in liquid form can cause freezing of tissue causing injury similar to thermal burn.
 Waste Disposal Method: Controlled burning. Contact supplier.

Section VIIISPECIAL PROTECTION INFORMATION

Respiratory Protection: Stay out of gas or vapor (because of fire hazard). Ventilation: Explosion-proof motors and keep sources of ignition at safe distances. Personal Protective Equipment and Apparel: Leather or equivalent gloves, goggles for protection against accidental release of pressurized product.

Section IXSPECIAL PRECAUTIONS

Precautions to be taken when handling and storing: Keep containers away from heat sources and store in upright position. Containers should not be dropped. Keep container valve closed when not in use.
 Other Precaution: Install protective caps when not connected for use.

Section XTOXICOLOGICAL INFORMATION

OSHA Carcinogen Classification (29 CFR 1910) Not listed/applicable X
 U.S. Department of Health (21 CFR 184.1655): Generally recognized as safe (GRAS) as a direct human food ingredient when used as a propellant, aerating agent and gas as defined in Section 170.3(o) (25).

Section XIDOT LABELING INFORMATION (49 CFR 100-199)

Proper shipping name: Liquefied Petroleum Gas Identification No: UN 1075
 Hazardous Classification: Flammable Gas Label(s) Required: Flammable Gas

Section XIIISSUE INFORMATION

Issue Date: July 10, 1987

This material safety data sheet and the information it contains is offered to you in good faith as accurate. Suburban Propane does not manufacture this product but is a supplier of the product independently manufactured by others. Much of the information contained in this data sheet was received from sources outside our Company. To the best of our knowledge this information is accurate, but Suburban Propane does not guarantee its accuracy or completeness. Health and safety precautions in this data sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely, comply with all applicable laws and regulations and to assume the risks involved in the use of this product.

NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSES, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OR COMPLETENESS OF THIS INFORMATION, THE RESULTS TO BE OBTAINED FROM THE USE OF THIS INFORMATION OR THE PRODUCT, THE SAFETY OF THIS PRODUCT, OR THE HAZARDS

MOBIL OIL CORPORATION MATERIAL SAFETY DATA BULLETIN

REVISED:08/22/91

***** I. PRODUCT IDENTIFICATION *****
MOBILMET SIGMA

SUPPLIER: MOBIL OIL CORP. 24-HOUR EMERGENCY (CALL COLLECT):
(609) 737-4411
CHEMICAL NAMES AND SYNONYMS: PET. HYDROCARBONS AND ADDITIVES CHEMTREC:
(800) 424-9300
USE OR DESCRIPTION: CUTTING FLUID PRODUCT AND MSDS INFORMATION:
(800) 662-4525

***** II. TYPICAL CHEMICAL AND PHYSICAL PROPERTIES *****

APPEARANCE: BROWN LIQUID ODOR: MILD PH: NA
 VISCOSITY AT 100 F, SUS: 156.0 AT 40 C, CS: 30.2
 VISCOSITY AT 210 F, SUS: 44.0 AT 100 C, CS: 5.4
 FLASH POINT F(C): > 350(177) (ASTM D-93)
 MELTING POINT F(C): NA POUR POINT F(C): 30(-1)
 BOILING POINT F(C): > 600(316)
 RELATIVE DENSITY, 15/4 C: 0.874 SOLUBILITY IN WATER: NEGLIGIBLE
 VAPOR PRESSURE-MM HG 20C: < .1
 NA=NOT APPLICABLE NE=NOT ESTABLISHED D=DECOMPOSES
 FOR FURTHER INFORMATION, CONTACT YOUR LOCAL MARKETING OFFICE.

***** III. POTENTIALLY HAZARDOUS INGREDIENTS *****

NONE

SEE SECTIONS XII AND XIII FOR REGULATORY AND FURTHER COMPOSITIONAL DATA.

SOURCES: A=ACGIH-TLV, A*=SUGGESTED-TLV, M=MOBIL, O=OSHA, S=SUPPLIER
 NOTE: LIMITS SHOWN FOR GUIDANCE ONLY. FOLLOW APPLICABLE REGULATIONS.

***** IV. HEALTH HAZARD DATA *****
 --- INCLUDES AGGRAVATED MEDICAL CONDITIONS, IF ESTABLISHED ---
 THRESHOLD LIMIT VALUE: 5.00 MG/M3 (SOURCES: A,M,O) FOR OIL MIST
 EFFECTS OF OVEREXPOSURE: SLIGHT SKIN IRRITATION.

***** V. EMERGENCY AND FIRST AID PROCEDURES *****
 --- FOR PRIMARY ROUTES OF ENTRY ---

EYE CONTACT: FLUSH THOROUGHLY WITH WATER. IF IRRITATION PERSISTS, CALL A PHYSICIAN.

SKIN CONTACT: WASH CONTACT AREAS WITH SOAP AND WATER.

INHALATION: NOT EXPECTED TO BE A PROBLEM.

INGESTION: NOT EXPECTED TO BE A PROBLEM. HOWEVER, IF GREATER THAN 1/2 LITER(PINT) INGESTED, IMMEDIATELY GIVE 1 TO 2 GLASSES OF WATER AND CALL A PHYSICIAN, HOSPITAL EMERGENCY ROOM OR POISON CONTROL CENTER FOR ASSISTANCE. DO NOT INDUCE VOMITING OR GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

***** VI. FIRE AND EXPLOSION HAZARD DATA *****

FLASH POINT F(C): > 350(177) (ASTM D-93)
FLAMMABLE LIMITS. LEL: .6% UEL: 7.0%
EXTINGUISHING MEDIA: CARBON DIOXIDE, FOAM, DRY CHEMICAL AND WATER FOG.
SPECIAL FIRE FIGHTING PROCEDURES: WATER OR FOAM MAY CAUSE FROTHING.
USE WATER TO KEEP FIRE EXPOSED CONTAINERS COOL. WATER SPRAY MAY BE
USED TO FLUSH SPILLS AWAY FROM EXPOSURE. FOR FIRES IN ENCLOSED
AREAS, FIREFIGHTERS MUST USE SELF-CONTAINED BREATHING APPARATUS.
PREVENT RUNOFF FROM FIRE CONTROL OR DILUTION FROM ENTERING STREAMS,
SEWERS, OR DRINKING WATER SUPPLY.
UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE.
NFPA HAZARD ID: HEALTH: 0, FLAMMABILITY: 1, REACTIVITY: 0

***** VII. REACTIVITY DATA *****

STABILITY (THERMAL, LIGHT, ETC.): STABLE
CONDITIONS TO AVOID: EXTREME HEAT.
INCOMPATIBILITY (MATERIALS TO AVOID): STRONG OXIDIZERS
HAZARDOUS DECOMPOSITION PRODUCTS: CARBON MONOXIDE.
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

***** VIII. SPILL OR LEAK PROCEDURE *****

ENVIRONMENTAL IMPACT: REPORT SPILLS AS REQUIRED TO APPROPRIATE
AUTHORITIES. U. S. COAST GUARD REGULATIONS REQUIRE IMMEDIATE
REPORTING OF SPILLS THAT COULD REACH ANY WATERWAY INCLUDING
INTERMITTENT DRY CREEKS. REPORT SPILL TO COAST GUARD TOLL FREE
NUMBER (800) 424-8802. IN CASE OF ACCIDENT OR ROAD SPILL NOTIFY
CHEMTREC (800) 424-9300.
PROCEDURES IF MATERIAL IS RELEASED OR SPILLED: ADSORB ON FIRE RETARDANT
TREATED SAWDUST, DIATOMACEOUS EARTH, ETC. SHOVEL UP AND DISPOSE OF
AT AN APPROPRIATE WASTE DISPOSAL FACILITY IN ACCORDANCE WITH
CURRENT APPLICABLE LAWS AND REGULATIONS, AND PRODUCT
CHARACTERISTICS AT TIME OF DISPOSAL.
WASTE MANAGEMENT: PRODUCT IS SUITABLE FOR BURNING IN AN ENCLOSED,
CONTROLLED BURNER FOR FUEL VALUE OR DISPOSAL BY SUPERVISED
INCINERATION. SUCH BURNING MAY BE LIMITED PURSUANT TO THE RESOURCE
CONSERVATION AND RECOVERY ACT. IN ADDITION, THE PRODUCT IS
SUITABLE FOR PROCESSING BY AN APPROVED RECYCLING FACILITY OR CAN BE
DISPOSED OF AT ANY GOVERNMENT APPROVED WASTE DISPOSAL FACILITY.
USE OF THESE METHODS IS SUBJECT TO USER COMPLIANCE WITH APPLICABLE
LAWS AND REGULATIONS AND CONSIDERATION OF PRODUCT CHARACTERISTICS
AT TIME OF DISPOSAL.

***** IX. SPECIAL PROTECTION INFORMATION *****

EYE PROTECTION: NO SPECIAL EQUIPMENT REQUIRED.
SKIN PROTECTION: NO SPECIAL EQUIPMENT REQUIRED. HOWEVER, GOOD PERSONAL
HYGIENE PRACTICES SHOULD ALWAYS BE FOLLOWED.
RESPIRATORY PROTECTION: NO SPECIAL REQUIREMENTS UNDER ORDINARY
CONDITIONS OF USE AND WITH ADEQUATE VENTILATION.
VENTILATION: NO SPECIAL REQUIREMENTS UNDER ORDINARY CONDITIONS OF USE
AND WITH ADEQUATE VENTILATION.

***** X. SPECIAL PRECAUTIONS *****

MATERIALS MUST BE LABELED AS: SEE APPENDIX FOR PRECAUTIONARY LABEL: FL-
388

***** XI. TOXICOLOGICAL DATA *****

---ACUTE TOXICOLOGY---

ORAL TOXICITY (RATS): LD50: > 5 G/KG SLIGHTLY TOXIC ---BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

DERMAL TOXICITY (RABBITS): LD50: > 5 G/KG NONTOXIC ---BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

INHALATION TOXICITY (RATS): LC50: >5 MG/L FOR 4-HRS.0/10RATS DIED AT THIS DOSAGE LEVEL. PRACTICALLY NONTOXIC

EYE IRRITATION (RABBITS): EXPECTED TO BE NON-IRRITATING. ---BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

SKIN IRRITATION (RABBITS): SLIGHTLY IRRITATING TO RABBITS.

OTHER ACUTE TOXICITY DATA: ****THIS MIXTURE OR A SIMILAR MIXTURE DID NOT RESULT IN ANY FATALITIES TO RATS AT CONCENTRATIONS (SEE INHALATION TOXICITY ABOVE) SUBSTANTIALLY HIGHER THAN THE 5 MG/M3 TLV SUGGESTED FOR OIL MISTS.

---SUBCHRONIC TOXICOLOGY (SUMMARY)---

SEVERELY SOLVENT REFINED AND SEVERELY HYDROTREATED MINERAL BASE OILS HAVE BEEN TESTED AT MOBIL ENVIRONMENTAL AND HEALTH SCIENCES LABORATORY BY DERMAL APPLICATION TO RATS 5 DAYS/WEEK FOR 90 DAYS AT DOSES SIGNIFICANTLY HIGHER THAN THOSE EXPECTED DURING NORMAL INDUSTRIAL EXPOSURE. EXTENSIVE EVALUATIONS INCLUDING MICROSCOPIC EXAMINATION OF INTERNAL ORGANS AND CLINICAL CHEMISTRY OF BODY FLUIDS, SHOWED NO ADVERSE EFFECTS.

---CHRONIC TOXICOLOGY (SUMMARY)---

THE BASE OILS IN THIS PRODUCT ARE SEVERELY SOLVENT REFINED AND/OR SEVERELY HYDROTREATED. CHRONIC MOUSE SKIN PAINTING STUDIES OF SIMILAR OILS SHOWED NO EVIDENCE OF CARCINOGENIC EFFECTS.

***** XIII. INGREDIENTS *****

INGREDIENT DESCRIPTION	PERCENT	CAS NUMBER
!<----->! !<-->! !<----->!		
CONTAINS ONE OR MORE OF THE FOLLOWING	> 90.00	
BASE OILS:		
DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC		64742-65-0
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC		64742-54-7
PARAFFIN OILS, SULFURIZED		68201-54-7
POLY(OXY(METHYL-1,2-ETHANEDIYL)), 1-HYDRO-HYDROXY-, ESTERS WITH SUCCINIC ANHYDRIDE	< 2.00	71820-32-1
POLYISOBUTENYL DERIVATIVES		
FATTY ACIDS, C18-UNSATD., DIMERS, POLYMERS WITH BISPHENOL A, C18-UNSATD., FATTY ACID TRIMERS AND EPICHLOROHYDRIN	< 4.00	68991-71-9

***** PRECAUTIONARY LABEL TEXT *****

CAUTION

WHEN USE CONDITIONS ARE LIKELY TO RESULT IN EXCESSIVE MISTING (GREATER THAN 5 MG/M3), PROVIDE ADEQUATE LOCAL VENTILATION OR RESPIRATORY PROTECTION.

ATTENTION

EMPTY CONTAINERS MAY CONTAIN PRODUCT RESIDUE, INCLUDING FLAMMABLE OR EXPLOSIVE VAPORS. DO NOT CUT, PUNCTURE OR WELD ON OR NEAR CONTAINER. ALL LABEL WARNINGS AND PRECAUTIONS MUST BE OBSERVED UNTIL THE CONTAINER HAS BEEN THOROUGHLY CLEANED OR DESTROYED.

REFER TO PRODUCT MATERIAL SAFETY DATA BULLETIN FOR FURTHER SAFETY AND HEALTH INFORMATION.

FL-388(3/85)

***** APPENDIX *****

FOR MOBIL USE ONLY: MCN: , MHC: 1* 0* 0 0* 1, MPPEC: A, PPEC: A, US90-340 APPROVE 07/26/90 REQ: US - MARKETING

MOBILMET SIGMA

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***** XII. REGULATORY INFORMATION *****
 GOVERNMENTAL INVENTORY STATUS: ALL COMPONENTS REGISTERED IN ACCORDANCE WITH TSCA.

DOT:
 SHIPPING NAME: NOT APPLICABLE
 HAZARD CLASS: NOT APPLICABLE

US OSHA HAZARD COMMUNICATION STANDARD: THIS PRODUCT MAY BE USED IN CERTAIN APPLICATIONS WHERE MISTING CAN OCCUR. ACCORDING TO OSHA 29 CFR 1910.1200, CERTAIN MINERAL OIL MISTS MAY BE CONSIDERED HAZARDOUS IF THE WORKPLACE AIRBORNE CONCENTRATION EXCEEDS 5 MG/M3 (ACGIH TLV).

RCRA INFORMATION: THE UNUSED PRODUCT, IN OUR OPINION, IS NOT SPECIFICALLY LISTED BY THE EPA AS A HAZARDOUS WASTE (40 CFR, PART 261D); DOES NOT EXHIBIT THE HAZARDOUS CHARACTERISTICS OF IGNITABILITY, CORROSIVITY, OR REACTIVITY, AND IS NOT FORMULATED WITH THE CONTAMINANTS LISTED IN THE TOXICITY CHARACTERISTIC (TC) RULE AS DETERMINED BY THE TOXICITY CHARACTERISTIC LEACHING PROCEDURE (TCLP). HOWEVER, USED PRODUCT MAY BE REGULATED.

U.S. SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT (SARA) TITLE III: THIS PRODUCT CONTAINS NO "EXTREMELY HAZARDOUS SUBSTANCES".

SARA (311/312 - FORMERLY 302) REPORTABLE HAZARD CATEGORIES: NONE

THIS PRODUCT CONTAINS NO CHEMICALS REPORTABLE UNDER SARA (313) TOXIC RELEASE PROGRAM.

THE FOLLOWING PRODUCT INGREDIENTS ARE CITED ON THE LISTS BELOW:

CHEMICAL NAME	CAS NUMBER	LIST CITATIONS
(OIL MIST)		1, 2, 11, 12, 13, 14
SULFUR (ELEMENTAL ANALYSIS)	7704-34-9	7, 9, 12, 14, 16, 17

--- KEY TO LIST CITATIONS ---

1 = OSHA Z, 2 = ACGIH, 3 = IARC, 4 = NTP, 5 = NCI,
 6 = EPA CARC, 7 = NFPA 49, 8 = NFPA 325M, 9 = DOT HMT, 10 = CA R,
 11 = IL RTK, 12 = MA RTK, 13 = MN RTK, 14 = NJ RTK, 15 = MI 2,
 16 = FL RTK, 17 = PA RTK, 18 = CA P65.

--- NTP, IARC, AND OSHA INCLUDE CARCINOGENIC LISTINGS ---

NOTE: MOBIL PRODUCTS ARE NOT FORMULATED TO CONTAIN PCBS.

MOBILMET SIGMA

665513-00 PAGE 6 C

 INFORMATION GIVEN HEREIN IS OFFERED IN GOOD FAITH AS ACCURATE, BUT WITHOUT GUARANTEE. CONDITIONS OF USE AND SUITABILITY OF THE PRODUCT FOR PARTICULAR USES ARE BEYOND OUR CONTROL; ALL RISKS OF USE OF THE PRODUCT ARE THEREFORE ASSUMED BY THE USER AND WE EXPRESSLY DISCLAIM ALL WARRANTIES OF EVERY KIND AND NATURE, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE IN RESPECT TO THE USE OR SUITABILITY OF THE PRODUCT. NOTHING IS INTENDED AS A RECOMMENDATION FOR USES WHICH INFRINGE VALID PATENTS OR AS EXTENDING LICENSE UNDER VALID PATENTS. APPROPRIATE WARNINGS AND SAFE HANDLING PROCEDURES SHOULD BE PROVIDED TO HANDLERS AND USERS.

PREPARED BY: MOBIL OIL CORPORATION
 ENVIRONMENTAL HEALTH AND SAFETY DEPARTMENT, PRINCETON, NJ
 FOR FURTHER INFORMATION, CONTACT:
 MOBIL OIL CORPORATION, PRODUCT FORMULATION AND QUALITY CONTROL
 3225 GALLOWES ROAD, FAIRFAX, VA 22037 (800) 227-0707 X3265



M a t e r i a l S a f e t y D a t a S h e e t

ARGON

Page: 1
Rev. Date
08/08/89

Airco, Division of The BOC Group, Inc.
575 Mountain Avenue
Murray Hill, NJ 07974

Telephone: (201)464-8100

Emergency Contact: CHEMTREC
Emergency Phone Number: (800)424-9300

SECTION #1 - IDENTIFICATION

Product: ARGON

CAS Number: 7440-37-1
Product Code: MSDS CODE G-6
Chemical Family: Rare Gas
Chemical Formula: Ar

Synonyms: G-6

Hazard Rating - Health: 1 Slight
- Fire: 0 Negligible
- Reactivity: 0 Negligible

SECTION #2 - CHEMICAL COMPONENTS

Component: ARGON
CAS Number: Not Established
Simple Asphyxiant - maintain
oxygen levels above 19.5%

SECTION #3 - PHYSICAL DATA

Boiling Point: - 302.6°F - 189.9°C
Melting Point: - 308.9°F - 189.4°C
Vapor Density (Air=1): 1.38 (GAS)
Solubility (H2O): Slight

Appearance

A colorless gas.

ARGON

SECTION #3 - PHYSICAL DATA Continued...Odor

Odorless

SECTION #4 - FIRE FIGHTING & EXPLOSION DATA

Flash Point: None

Lower Explosive Limit (%): N/A

Upper Explosive Limit (%): N/A

Fire and Explosion Hazards

None.

Extinguishing Media

Nonflammable, inert gas - Use any extinguishing media which is suitable for the surrounding fire.

Special Fire Fighting Instructions

None.

SECTION #5 - EXPOSURE and EFFECTS - INHALATIONRoutes of Exposure - Inhalation

Argon is a simple asphyxiant. Maintain oxygen levels above 19.5% at sea level. Effects of overexposure to high concentrations so as to displace the oxygen in the air necessary for life may include any, all or none of the following:

- o Tingling of the tongue, fingertips or toes;
- o Weakened speech leading to the inability to utter sounds;
- o Rapid reduction in the ability to perform movements;
- o Loss of tactile sensations;
- o Heightened mental activity;

The above symptoms may or may not be present since there are no definite symptoms of exposure. Argon is nontoxic but the liberation of a large amount in a confined area could displace the amount of oxygen in air necessary to support life.

SECTION #5 - EXPOSURE and EFFECTS - INHALATION Continued...First Aid - Inhalation

PROMPT MEDICAL ATTENTION IS MANDATORY IN ALL CASES OF OVEREXPOSURE. RESCUE PERSONNEL SHOULD BE EQUIPPED WITH SELF-CONTAINED BREATHING APPARATUS.

Conscious persons should be assisted to an uncontaminated area and inhale fresh air. Quick removal from the contaminated area is most important. Unconscious persons should be moved to an uncontaminated area, given artificial resuscitation and supplemental oxygen. Further treatment should be symptomatic and supportive.

SECTION #5 - EXPOSURE and EFFECTS - SKINRoutes of Exposure - Skin

Frostbite effects appear as a change in the color of the skin to gray or white possibly followed by blistering and may occur upon contact with liquid.

First Aid - Skin

For dermal contact or frostbite: Remove contaminated clothing and flush affected areas with lukewarm water. DO NOT USE HOT WATER. A physician should see the patient promptly if the cryogenic "burn" has resulted in blistering of the dermal surface or deep tissue freezing.

SECTION #5 - EXPOSURE and EFFECTS - EYESRoutes of Exposure - Eyes

Contact with liquid may cause tissue freezing.

First Aid - Eyes

IMMEDIATELY FLUSH with tepid water in large quantities, or with sterile saline solution. Seek medical attention. DO NOT USE HOT WATER.

SECTION #5 - EXPOSURE and EFFECTS - INGESTIONRoutes of Exposure - Ingestion

Since product is a gas at room temperature, ingestion is unlikely. Contact with liquid product may cause freezing of tissue and should be treated as frostbite. Consult a physician for treatment.

SECTION #5 - MISCELLANEOUS TOXICOLOGICAL INFORMATION

Carcinogenicity: NTP: No

IARC: No

OSHA: No

SECTION #6 - REACTIVITY & POLYMERIZATION

Stability: Stable

Conditions to Avoid (Stability)

Product is an inert gas.

Hazardous Polymerization: Will Not Occur

SECTION #7 - SPILL, LEAK, & DISPOSAL PROCEDURESSteps to be Taken in The Event of Spills, Leaks, or Release

Evacuate all personnel from affected areas. Use appropriate protective equipment. If leak is in user's equipment, be certain to purge piping with an inert gas prior to attempting repairs. If leak is in container or container valve, contact CHEMTREC for emergency assistance or call your closest Airco location.

Waste Disposal Methods

Do not attempt to dispose of waste or unused quantities. Return in the shipping container PROPERLY LABELED, WITH ANY VALVE OUTLET PLUGS OR CAPS SECURED AND VALVE PROTECTION CAP IN PLACE to Airco for proper disposal.

SARA Hazard Classes: Sudden Release of Pressure Hazard

SECTION #8 - SPECIAL PROTECTIVE MEASURESVentilation

Use local exhaust ventilation to reduce concentrations to within current exposure limits. A laboratory type hood is suitable for handling small or limited quantities. Maintain oxygen levels above 19.5% at normal pressure.

Eye Protection

Safety goggles or glasses.

SECTION #8 - SPECIAL PROTECTIVE MEASURES Continued...Skin Protection

Protective gloves made of any suitable material. Use insulated gloves if contact with liquid product may occur.

Respiratory Protection

An airline respirator with full face piece equipped with an escape bottle or a Self Contained Breathing Apparatus should be available for emergency use. Operate this equipment in the positive pressure demand mode, PPD!

Other Protection

Safety shoes, eyewash, safety shower.

SECTION #9 - SPECIAL PRECAUTIONS - STORAGE & HANDLINGStorage & Handling Conditions

Use only in well-ventilated areas. Valve protection caps must remain in place unless container is secured with valve protection outlet piped to use point. Do not drag, slide or roll cylinders. Use a suitable hand truck for cylinder movement. Use a pressure reducing regulator when connecting cylinder to lower pressure (<3000 psig) piping or systems. Do not heat cylinder by any means to increase the discharge rate of product from the cylinder. Use a check valve or trap in the discharge line to prevent hazardous back flow into the cylinder. Protect cylinders from physical damage. Store in cool, dry, well-ventilated area of non-combustible construction away from heavily trafficked areas and emergency exits. Do not allow the temperature where cylinders are stored to exceed 125°F. Cylinders should be stored upright and firmly secured to prevent falling or being knocked over. Use a "first in-first out" inventory system to prevent full cylinders being stored for excessive periods of time.

Never carry a compressed gas cylinder or a container of a gas in cryogenic liquid form in an enclosed space such as a car trunk, van or station wagon. A leak can result in a fire, explosion, asphyxiation or a toxic exposure.

SECTION #10 - SHIPPING INFORMATION

Proper Shipping Name: Argon or Argon, Compressed

Hazard Class: Nonflammable Gas
DOT Identification Number: UN1006
DOT Shipping Label: Nonflammable Gas

SECTION #11 - MISC COMMENTS & REFERENCE DOCUMENTATION

Argon is non-corrosive and may be used with any common structural material. Compressed gas cylinders should not be refilled except by qualified producers of compressed gases. Shipments of a compressed gas cylinder, which has not been filled by the owner or with his (written) consent, is a violation of Federal Law (49CFR). For additional recommendations, consult Compressed Gas Association Pamphlets P-1, P-14, P-9, and Safety Bulletin SB-2.

DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES

Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained therein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purpose(s).



M a t e r i a l S a f e t y D a t a S h e e t

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Rev. Date
08/03/89

OXYGEN

Airco, Division of the BOC Group, Inc.
575 Mountain Avenue
Murray Hill, NJ 07974

Telephone: (201)464-8100

Emergency Contact: CHEMTREC
Emergency Phone Number: (800)424-9300

SECTION #1 - IDENTIFICATION

Product: OXYGEN

CAS Number: 7782-44-7
Product Code: MSDS CODE G-1
Chemical Family: Oxidizer
Chemical Formula: O₂

Synonyms: G-1

NFPA Hazard Rating - Health: 3 High
- Fire: 0 Negligible
- Reactivity: 0 Negligible
- Special: Oxy

SECTION #2 - CHEMICAL COMPONENTS

Component: OXYGEN
CAS Number: 7782-44-7 Percent of Mixture: 99.6000 to 100.0000

SECTION #3 - PHYSICAL DATA

Boiling Point: -297.3°F - 182.9°C
Melting Point: - 361.8°F - 218.8°C
Vapor Pressure: Above critical temp.
Specific Gravity: 1.11 (gas, air=1.0)
Solubility (H₂O): Slightly soluble

Appearance

Colorless gas.

OXYGEN

SECTION #3 - PHYSICAL DATA Continued...Odor

Odorless.

SECTION #4 - FIRE FIGHTING & EXPLOSION DATA

Flash Point: N/A

Lower Explosive Limit (%): N/A

Upper Explosive Limit (%): N/A

Fire and Explosion Hazards

Electrical Classification: Nonhazardous

Vigorously accelerates combustion.

Extinguishing Media

Copious quantities of water (or the suitable extinguishing agent for the combustible material) for fires with oxygen as the oxidizer.

Special Fire Fighting Instructions

If possible, stop the flow of oxygen which is supporting the fire.

SECTION #5 - EXPOSURE and EFFECTS - INHALATIONRoutes of Exposure - Inhalation

High concentrations (greater than 75%) causes symptoms of hyperoxia which included cramps, nausea, dizziness, hypothermia, ambylopia, respiration difficulties, bradycardia, fainting spells and convulsions capable of leading to death. The property is that of hyperoxia which leads to pneumonia. concentrations between 25 an 75 percent present a risk of inflammation of organic matter in the body.

First Aid - Inhalation

PROMPT MEDICAL ATTENTION IS MANDATORY IN ALL CASES OF OVEREXPOSURE TO OXYGEN. RESCUE PERSONNEL SHOULD BE EQUIPPED WITH SELF-CONTAINED BREATHING APPARATUS.

OXYGEN

SECTION #5 - EXPOSURE and EFFECTS - INHALATION Continued...First Aid - Inhalation

Victims should be assisted to an uncontaminated area and inhale fresh air. Quick removal from the contaminated area is most important. Unconscious persons should be moved to an uncontaminated area, and if breathing has stopped, administer artificial resuscitation and supplemental oxygen. Further treatment should be symptomatic and supportive. The physician should be informed that the victim could be experiencing hyperoxia.

SECTION #5 - EXPOSURE and EFFECTS - SKINRoutes of Exposure - Skin

Contact with liquid product may cause tissue freezing.

First Aid - Skin

For dermal contact or frostbite: Remove contaminated clothing and flush affected areas with lukewarm water. DO NOT USE HOT WATER. A physician should see the patient promptly if the cryogenic "burn" has resulted in blistering of the dermal surface or deep tissue freezing.

SECTION #5 - EXPOSURE and EFFECTS - EYESRoutes of Exposure - Eyes

Contact with liquid product may cause tissue freezing.

First Aid - Eyes

Never introduce ointment or oil into the eyes without medical advice! In case of freezing or cryogenic "burns" caused by rapidly evaporating liquid, DO NOT WASH THE EYES WITH HOT OR EVEN TEPID WATER! Remove victim from the source of contamination. Open eyelids wide to allow liquid to evaporate. If pain is present, refer the victim to an ophthalmologist for treatment and follow up. If the victim cannot tolerate light, protect the eyes with a light bandage.

SECTION #5 - MISCELLANEOUS TOXICOLOGICAL INFORMATION

Carcinogenicity: NTP - No

IARC - No

OSHA - No

OXYGEN

SECTION #6 - REACTIVITY & POLYMERIZATION

Stability: Stable

Conditions to Avoid (Stability)

Contact with all flammable materials.

Incompatible Materials

All flammable materials.

Hazardous Polymerization: Will Not Occur

SECTION #7 - SPILL, LEAK, & DISPOSAL PROCEDURESSteps to be Taken in The Event of Spills, Leaks, or Release

Stationary customer site vessels should operate in accordance with the manufacturer's and Airco's instruction. Do not attempt to repair, adjust or in any other way modify the operation of these vessels. If there is a malfunction or other type of operations problem with the vessel, contact the closest Airco location immediately.

Waste Disposal Methods

Do not attempt to dispose of waste or unused quantities. Return in the shipping container PROPERLY LABELED, WITH ANY VALVE OUTLET PLUGS OR CAPS SECURED AND VALVE PROTECTION CAP IN PLACE to Airco for proper disposal.

SARA Hazard Classes: Fire Hazard
Sudden Release of Pressure Hazard

SECTION #8 - SPECIAL PROTECTIVE MEASURESVentilation

Use local exhaust to prevent accumulation of high concentrations that increase the oxygen level in air to more than 25%.

Eye Protection

Safety goggles or glasses plus a face shield.

OXYGEN

SECTION #8 - SPECIAL PROTECTIVE MEASURES Continued...Skin Protection

Loose fitting and insulated.

Other Protection

Safety shoes, safety shower.

SECTION #9 - SPECIAL PRECAUTIONS - STORAGE & HANDLINGStorage & Handling Conditions

Use only in well-ventilated areas. Valve protection caps must remain in place unless container is secured with valve outlet piped to use point. Do not drag, slide or roll cylinders. Use a suitable hand truck for cylinder movement. Use a pressure reducing regulator when connecting cylinder to lower pressure (<3000 psig) piping or systems. Do not heat cylinder by any means to increase the discharge rate of product from the cylinder. Use a check valve or trap in the discharge line to prevent hazardous back flow into the system.

Protect cylinders from physical damage. Store in cool, dry, well-ventilated area away from heavily trafficked areas and emergency exits. Do not allow the temperature where cylinders are stored to exceed 130°F (54°C). Cylinders should be stored upright and firmly secured to prevent falling or being knocked over. Full and empty cylinders should be segregated. Use a "first in-first out" inventory system to prevent full cylinders being stored for excessive periods of time. Post "NO SMOKING OR OPEN FLAMES" signs in the storage area or use area. There should be no sources of ignition in the storage or use area.

For additional storage recommendations, consult Compressed Gas Association's Pamphlets P-1, P-14, and safety bulletin SB-2.

Never carry a compressed gas cylinder or a container of a gas in cryogenic liquid form in an enclosed space such as a car trunk, van or station wagon. A leak can result in a fire, explosion, asphyxiation or a toxic exposure.

SECTION #10 - SHIPPING INFORMATION

Proper Shipping Name: Oxygen or Oxygen, Compressed

Hazard Class: Nonflammable Gas
DOT Identification Number: UN1072
DOT Shipping Label: Oxidizer

OXYGEN

SECTION #10 - SHIPPING INFORMATION Continued...**SECTION #11 - MISC COMMENTS & REFERENCE DOCUMENTATION**

Carbon steels and low alloy steels are acceptable for use at lower pressures.

For high pressure applications stainless steels are acceptable as are copper and its alloys, nickel and its alloys, brass bronze, silicon alloys, Monel (R), Inconel (R) and beryllium. Lead and silver or lead tin alloys are good gasket materials. Teflon (R), Teflon (R) composites, or Kel-F (R) are preferred non-metallic gasket materials.

Check with the supplier to verify oxygen compatibility for the service conditions.

For additional storage recommendations, consult Compressed Gas Association's Pamphlets P-1, P-14 and G-4.

Oxygen should not be used as a substitute for compressed air in pneumatic equipment since this type generally contains flammable lubricants. Equipment to contain oxygen must be "cleaned for oxygen service." Compressed gas vessels should not be refilled except by qualified producers of compressed gases. Shipment of a compressed gas vessel which has not been filled by the owner or with his (written) consent is a violation of Federal Law (49CFR).

DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES

Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained therein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purpose(s).



Material Safety Data Sheet

ACETYLENE

Page: 1
Rev. Date
05/09/89

Airco, Division of The BOC Group, Inc.
575 Mountain Avenue
Murray Hill, NJ 07974

Telephone: (201)464-8100

Emergency Contact: CHEMTREC
Emergency Phone Number: (800)424-9300

SECTION #1 - IDENTIFICATION

Product: ACETYLENE

CAS Number: 74-86-2
Product Code: MSDS CODE G-2
Chemical Family: Alkyne
Chemical Formula: C₂H₂

Synonyms: ETHENE
G-2

NFPA Hazard Rating - Health: 1 Slight
- Fire: 4 Extreme
- Reactivity: 3 High

SECTION #2 - CHEMICAL COMPONENTS

Component: ACETYLENE
CAS Number: 74-86-2 Percent of Mixture: 100.0000
ACGIH TLV-TWA: D, simple asphyxiant

SECTION #3 - PHYSICAL DATA

Boiling Point: -118.8°F -83.8°C
Melting Point: -113°F -80.6°C
Vapor Pressure: 645 psia
Specific Gravity: 0.906
Solubility (H₂O): Soluble

Appearance

A colorless gas.

ACETYLENE

SECTION #3 - PHYSICAL DATA Continued...Odor

Pure acetylene has an ethereal odor. Commercial (carbide) acetylene has a distinctive garlic-like odor.

SECTION #4 - FIRE FIGHTING & EXPLOSION DATA

Flash Point: Gas
Autoignition: 565°F 296°C

Lower Explosive Limit (%): 2.2
Upper Explosive Limit (%): 80 - 85*

Fire and Explosion Hazards

*Pure acetylene can ignite by decomposition above 15 psi; therefore, the UEL is 100% if the ignition source is of sufficient intensity.

Electrical Classification: Class 1, Group A.

GASEOUS ACETYLENE IS SPONTANEOUSLY COMBUSTIBLE IN AIR AT PRESSURES ABOVE 15 PSI (207 kPa.). It requires a very low ignition energy so that fires which have been extinguished without stopping the flow of gas can easily reignite with possible explosive force. Acetylene has a density very similar to that of air so when leaking it does not readily dissipate.

Extinguishing Media

Carbon dioxide, dry chemical.

Special Fire Fighting Instructions

If possible, stop the flow of gas supply and allow fuel to consume itself. Use water spray to cool adjacent areas. Keep personnel away since heated or burning cylinders can rupture violently.

SECTION #5 - EXPOSURE and EFFECTS - INHALATIONRoutes of Exposure - Inhalation

Acetylene is a simple asphyxiant. Oxygen levels should be maintained at greater than 18 molar percent at normal atmospheric pressure which is equivalent to a partial pressure of 135 mm Hg. High concentrations of acetylene so as to exclude an adequate supply of oxygen to the lungs causes dizziness, deeper breathing due to air hunger, possible nausea and eventual unconsciousness.

SECTION #5 - EXPOSURE and EFFECTS - INHALATION Continued...Routes of Exposure - Inhalation

Acetylene is relatively inactive biologically and essentially nontoxic; therefore, the major hazard is the exclusion of an adequate supply of oxygen to the lungs. Low concentrations (10-20% in air) cause symptoms similar to that of being intoxicated. As a narcotic gas or intoxicant, it causes hypercapnia (an excessive amount of carbon dioxide in the blood). Repeated exposures to tolerable levels has not shown deleterious effects.

Exposure to the acetone component is unlikely unless cylinder is leaking on its side. Acetone is primarily a central nervous system toxin causing headache, nausea, dizziness, vomiting and fatigue.

First Aid - Inhalation

PROMPT MEDICAL ATTENTION IS MANDATORY IN ALL CASES OF OVEREXPOSURE. PERSONNEL SHOULD BE EQUIPPED WITH SELF-CONTAINED BREATHING APPARATUS.

Victims should be assisted to an uncontaminated area and inhale fresh air. Quick removal from the contaminated area is most important. If breathing has stopped administer artificial resuscitation and supplemental oxygen. Further treatment should be symptomatic and supportive. Keep victim warm and quiet.

SECTION #5 - EXPOSURE and EFFECTS - SKINRoutes of Exposure - Skin

Skin effects are not likely. Contact with liquid acetone may cause irritation and dermatitis upon repeated exposures.

First Aid - Skin

Wash affected areas with soap and warm water. If irritation persists, seek medical attention.

SECTION #5 - MISCELLANEOUS TOXICOLOGICAL INFORMATION

Carcinogenicity: NTP: No

IARC: No

OSHA: No

ACETYLENE

SECTION #6 - REACTIVITY & POLYMERIZATION

Stability: Unstable

Conditions to Avoid (Stability)

Do not allow free gas (outside of cylinder) to exceed 15 psi. Do not expose cylinders to sudden shock or heat.

Incompatible Materials

Oxygen and other oxidizers including all halogens and halogen compounds. Forms explosive acetylide compounds with copper, mercury, silver, brasses containing >66% copper and brazing materials containing silver or copper.

Hazardous Decomposition Products

Carbon monoxide and hydrogen.

Hazardous Polymerization: Will not occur.

SECTION #7 - SPILL, LEAK, & DISPOSAL PROCEDURESSteps to be Taken in The Event of Spills, Leaks, or Release

Evacuate all personnel from affected areas. Use appropriate protective equipment. If leak is in user's equipment, be certain to purge piping with an inert gas prior to attempting repairs. If leak is in container or container valve, contact CHEMTREC for emergency assistance or call your closest Airco location.

Waste Disposal Methods

Do not attempt to dispose of waste or unused quantities. Return in the shipping container PROPERLY LABELED, WITH ANY VALVE OUTLET PLUGS OR CAPS SECURED AND VALVE PROTECTION CAP IN PLACE to Airco for proper disposal.

SARA Hazard Classes: Acute Health Hazard
Fire Hazard
Sudden Release of Pressure Hazard

ACETYLENE

SECTION #8 - SPECIAL PROTECTIVE MEASURESVentilation

Hood with forced ventilation. Local exhaust to prevent accumulation above the exposure limit. Mechanical in accordance with electrical codes.

Eye Protection

Safety goggles or glasses.

Skin Protection

PVC or rubber in laboratory; as required for cutting and welding.

Respiratory Protection

Positive pressure air line with mask or self-contained breathing apparatus should be available for emergency use.

Other Protection

Safety shoes, safety shower.

SECTION #9 - SPECIAL PRECAUTIONS - STORAGE & HANDLINGStorage & Handling Conditions

Use only in well-ventilated areas. Valve protection caps must remain in place unless container is secured with valve protection outlet piped to use point. Do not drag, slide or roll cylinders. Use a suitable hand truck for cylinder movement. Use a pressure reducing regulator when removing gas from the cylinder. DO NOT ALLOW THE FREE GAS TO EXCEED 15 PSI (207 kPa) @ 70°F (21.1°C). Do not heat cylinder by any means to increase the discharge rate of product from the cylinder. Use a check valve or trap in the discharge line to prevent hazardous back flow into the cylinder.

Protect cylinders from physical damage. Store in cool, dry, well-ventilated area of non-combustible construction away from heavily trafficked areas and emergency exits. Do not allow the temperature where cylinders are stored to exceed 130°F. Cylinders should be stored upright and firmly secured to prevent falling or being knocked over. Use a "first in-first out" inventory system to prevent full cylinders being stored for excessive periods of time. Post "NO SMOKING OR OPEN FLAMES" signs in the storage area or use area. There should be no sources of ignition in the storage or use area.

SECTION #10 - SHIPPING INFORMATION

Proper Shipping Name: Acetylene

ACETYLENE

SECTION #10 - SHIPPING INFORMATION Continued...

Hazard Class: Flammable Gas
DOT Identification Number: UN1001
DOT Shipping Label: Flammable Gas

SECTION #11 - MISC COMMENTS & REFERENCE DOCUMENTATION

Earth-ground and bond all lines and equipment associated with the acetylene system. Electrical equipment should be non sparking or explosion-proof.

Compressed gas cylinders should not be refilled except by qualified producers of compressed gases. Shipments of a compressed gas cylinder, which has not been filled by the owner or with his (written) consent, is a violation of Federal Law (49CFR).

For additional recommendations, consult Compressed Gas Association Pamphlets P-1, G-1. NFPA #51-1984. OSHA 1910-subpart H & Q.

Since acetylene will explode or combust if its pressure exceeds 15 psi (207 kPa), it is shipped dissolved in acetone or dimethylformamide, which is dispersed in a porous mass within the cylinder. Follow AIRCO's instructions for the maximum withdrawal rate for each size cylinder so that the solvent is not withdrawn with the acetylene.

Most metals except silver, copper, mercury, or brasses with more than 66% copper are compatible (noncorrosive) with acetylene.

DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES

Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained therein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purpose(s).

GARDEN GROVE FIRE DEPARTMENT

HAZARDOUS MATERIALS DISCLOSURE STATEMENT

BUSINESS NAME: F.T.B. : SON INC.
TOTAL NUMBER OF EMPLOYEES 57
BUSINESS ADDRESS 11551 MARKON DR.
CITY GARDEN GROVE **STATE** CA **ZIP** 92841
MAILING ADDRESS SAME
CITY _____ **STATE** _____ **ZIP** _____
BUSINESS PHONE (714) 891-8003 **FAX (714)** 892-0644

OWNER/OPERATOR: NAME FRANK T. BROWN **PHONE (714)** 891-8003
ADDRESS 11551 MARKON DR
CITY GARDEN GROVE **STATE** CA **ZIP** 92841
24-HOUR PHONE (714) 544-7387 **PHONE (714)** 891-8003

EMERGENCY CONTACTS: NAME Kathy Murphy
ADDRESS 11871 Fortney DR **CITY** ANAHEIM **STATE** CA **ZIP** 92804
24-HOUR PHONE NUMBER (714) 638-7129 **PHONE (714)** 891-8003

PROPERTY OWNER: NAME FRANK T. BROWN **PHONE (714)** 544-7387
ADDRESS 11646 LAS LUCES
CITY SANTA ANA **STATE** CA **ZIP** 92705

*** * * DISCLOSURE STATEMENT * * ***

I have reviewed the disclosure which I have on file at my business, and which is the same file as submitted to the Garden Grove Fire Department during our last disclosure period. All business names, processes, practices, chemical storage, use, and quantity amounts have remained unchanged from the disclosure on file, and shall remain in effect through the next disclosure period.

I understand, should any business practices change or should the business close before the next disclosure period, I am required by the State of California Health and Safety Code and the Uniform Fire Code, to notify the Garden Grove Fire Department of such changes or closures.

We at the business of F.T.B. : SON INC. meet the above requirement for a short form disclosure. The undersigned is a responsible party within this business, and has the authority to make the proper determination of the company's practices. This signature is considered under the penalty of perjury.

[Signature]
Business Official Signature ON 11-10-97 **Date** 1-20-97

**REC'D NEWER
DISCLOSURE UPDATE**

Office Use Only: Short _____ Long _____ Fee _____
Checked by SS cc Date 3/7/97

REC'D/APPRV'D _____ DATE _____
FEE 1 2 3 4 NEW BUS _____ EXISTG _____ UPD _____
MISC _____
TIER II _____ FAC _____ CON _____ BUS LIST _____ PICK _____

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: 101KE

ARDROX INC.
16961 Knott Avenue La Mirada, CA 90638

(714) 739-2821

CHEMTREC EMERGENCY TELEPHONE: 800-424-9300

EFFECTIVE DATE: 03 JAN 1989

HAZARDOUS INGREDIENTS:

COMPONENT(S):	WT %	EXPOSURE LIMITS TO AIR		
		CAS NO.	ACGIH TLV	OSHA PEL
Ethylene Glycol n-Butyl Ether	*	111-76-2	25 ppm (skin)	50 ppm (skin)
Petroleum Distillate (2.5 % aromatic, heavier than xylenes)	*	NA	500 ppm**	NA

*Not listed as Toxic Chemical on SARA TITLE III; Section 313, Toxic Chemical List; therefore, disclosure of weight percent information is not required.

This product DOES NOT contain chemicals known to the State of California to cause cancer or reproductive toxicity.

I. PHYSICAL DATA:

MELTING POINT: NA	SPECIFIC GRAVITY: 0.79
BOILING Point: IBP:314°F	SOLUBILITY IN WATER: Appreciable
VAPOR PRESSURE (mm Hg): Approx. 1.6	EVAPORATION RATE(BuAc=1): 0.12
VAPOR DENSITY (Air=1): >1	PH: NA
ODOR: Mineral spirits odor.	
APPEARANCE: Clear colorless liquid.	

II. FIRE AND EXPLOSION HAZARD DATA:

FLASH POINT: 115°F
METHOD USED: T.C.C. ASTM D-56
AUTOIGNITION TEMPERATURE: 490°F
Stoddard solvent component
FLAMMABLE LIMITS: UPPER: 6.1 LOWER: 1.0
EXTINGUISHING MEDIA: Dry Chemical, CO2.

FIRE AND EXPLOSION HAZARDS:

Component(s) have high fire hazard when exposed to heat or flame.

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: 101KE

**ARDROX INC.
16961 Knott Avenue La Mirada, CA 90638**

(714) 739-2821

SPECIAL FIRE FIGHTING PROCEDURES:

Wear goggles and self-contained breathing apparatus. Use water to keep fire-exposed containers cool and to flush spills away from fire. In the case of large fires also cool surrounding equipment and structures with water.

7. REACTIVITY:

STABILITY: Stable

CONDITIONS TO AVOID:

Heat. Flames and sparks. Ignition sources.

HAZARDOUS POLYMERIZATION:

Will Not Occur

INCOMPATIBILITY:

Strong oxidizing and reducing agents.

HAZARDOUS DECOMPOSITION PRODUCTS:

Acrid smoke. Organic compounds on combustion. Carbon monoxide and carbon dioxide on combustion.

ENVIRONMENTAL AND DISPOSAL INFORMATION:

ACTION TO TAKE FOR SPILLS/LEAKS

CAUTION:

Use appropriate protective and safety equipment. See Section VIII of this Material Safety Data Sheet for handling precautions. Since component(s) of this product are combustible, eliminate all potential sources of ignition. Thoroughly ventilate area before reintroducing operations involving ignition (smoking, welding, electrical contact).

SMALL SPILL:

Mop up or soak up with non-combustible absorbent inorganic material. Transfer to DOT-approved container.

LARGE SPILL:

Contain by diking with non-combustible absorbent inorganic material. Prevent runoff from entering sewers, storm drains, surface water, and soil. Transfer contaminated absorbent to a DOT-approved container.

WASTE DISPOSAL INFORMATION:

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: 101KE

ARDROX INC.
16961 Knott Avenue La Mirada, CA 90638

(714) 739-2821

Dumping into sewers, on the ground, or into any body of water is strongly discouraged and is illegal. Dispose of contaminated product and materials used in cleaning up spills or leaks in a manner approved for this material. Consult appropriate federal, state and local regulatory agencies to ascertain proper disposal procedures.

NOTE:

Comply with all applicable government regulations on spill reporting and handling and disposal of waste. Empty containers can have residues, gases, and mists, and are subject to proper waste disposal.

I. HEALTH HAZARD DATA:

BREATHED:

High vapor concentration or prolonged exposure may irritate nose and throat. Prolonged exposure to very high concentrations may progressively cause headache, dizziness, nausea, and unconsciousness. Excessive inhalation of a component(s) may cause CENTRAL NERVOUS SYSTEM depression with drowsiness, dizziness, loss of coordination, fatigue and loss of consciousness.

SKIN CONTACT:

Frequent or prolonged contact may cause irritation and dermatitis. Effects may be delayed.

SKIN ABSORPTION:

Component(s) are readily absorbed through the skin and are moderately to highly toxic. Effects may be similar to those described under other categories in this section.

EYE CONTACT:

May cause severe irritation with corneal injury which may result in permanent impairment of vision or even blindness.

SWALLOWED:

A component(s) of this product is toxic. Swallowing the liquid may result in vomiting. If vomiting occurs spontaneously, do not allow vomitus to be breathed into lungs, as even a small quantity may cause lung damage (chemical pneumonitis and pulmonary edema/hemorrhage). Swallowing a component(s) may cause headache, nausea, vomiting, weakness, .

SYSTEMIC AND OTHER EFFECTS:

ATERIAL SAFETY DATA SHEET

RODUCT NAME: 101KE

ARDROX INC.
16961 Knott Avenue La Mirada, CA 90638

(714) 739-2821

Repeated excessive exposure may affect the BLOOD. Repeated excessive exposure may injure LIVER and KIDNEY. Signs and symptoms of excessive exposure may be CENTRAL NERVOUS SYSTEM effects and anesthetic and narcotic effects (headache, dizziness, nausea, and loss of consciousness).

MEDICAL CONDITIONS AGGRAVATED:

Persons with pre-existing skin conditions may be suseptible to the effects of a component(s) of this product.

SUSPECTED CANCER AGENT: No

FEDERAL OSHA
No

CA OSHA
No

NTP
No

IARC
No

TARGET ORGANS, OTHER THAN THOSE IMPLIED BY ROUTES OF ENTRY (I.E., BREATHED, INCLUDES RESPIRATORY TRACT AND LUNGS) ARE CAPITALIZED.

II. FIRST AID:

BREATHED:

Remove victim to fresh air at once. If not breathing, give mouth-to-mouth resuscitation. If breathing is difficult, give oxygen. Keep victim warm and at rest. GET IMMEDIATE MEDICAL ATTENTION.

SKIN:

Wash skin immediately with lots of soap and water. If clothes and shoes are contaminated, remove and wash before reuse. Get medical attention if ill effect or irritation develops.

EYES:

Wash eyes immediately with running water for at least 15 minutes. Use fingers to assure that eyelids are separated and that eye is being washed. Lift the lower and upper lid occasionally. GET IMMEDIATE MEDICAL ATTENTION.

SWALLOWED:

DO NOT INDUCE VOMITING. If vomiting spontaneously occurs, do not allow vomitus to be breathed into lungs. Keep victim's head below his hips. Call a physician and/or transport to emergency medical facility immediately. The decision of whether to induce vomiting or not should be made by a physician. If lavage is performed, suggest endotracheal and/or esophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach.

NOTE TO PHYSICIAN:

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: 101KE

ARDROX INC.
16961 Knott Avenue La Mirada, CA 90638

(714) 739-2821

Supportive care: Treatment based on judgement of physician in response to reactions of patient.

III. HANDLING PRECAUTIONS:

VENTILATION:

Control airborne concentrations below exposure guidelines (Section I) with MECHANICAL VENTILATION, if necessary. Local explosion-proof EXHAUST VENTILATION may be necessary for some operations.

RESPIRATORY PROTECTION:

Atmospheric levels should be maintained below exposure guidelines. When respiratory protection is required for certain operations, use a NIOSH-approved cannister-type respirator. In confined or poorly ventilated areas or for emergency and other conditions where the exposure guidelines may be greatly exceeded, use an approved positive-pressure, self-contained breathing apparatus.

EYE PROTECTION:

Contact lenses should not be used. Suggested protection is safety glasses, but where contact with liquid is likely, chemical goggles or face shields are recommended.

SKIN PROTECTION:

Impermeable gloves are recommended. When prolonged or frequently repeated contact could occur, use protective clothing. Selection of specific items such as boots, apron, or full-body suit will depend on operation. Wash thoroughly after handling chemicals.

SPECIAL EQUIPMENT:

Suitable laboratory equipment would include safety showers and eye washes.

IV. STORAGE AND HANDLING:

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: 101KE

ARDROX INC.
16961 Knott Avenue La Mirada, CA 90638

(714) 739-2821

Train all employees on all special handling procedures in this section before they work with this product. Exercise reasonable care and caution. Personnel should avoid breathing vapors and/or mists and getting product in the eyes or on the skin. DO NOT CONSUME food, drink, or tobacco in areas where they may become contaminated with this material. Keep containers cool, dry, and away from sources of ignition. DO NOT STORE product in direct sunlight, high temperature, or below freezing areas. Keep product container tightly closed when not in use. Protect containers from physical damage. Use and store with adequate ventilation. DO NOT cut, grind, weld or drill on or near this container. Ground all equipment. Wash thoroughly after using. Concentrated vapors of this product are heavier than air and will collect in low areas such as pits, degreasers, storage tanks, and other confined areas. DO NOT ENTER these areas where vapors of this product are suspected unless special breathing apparatus is used and an observer similarly equipped is present for assistance.

DOT:

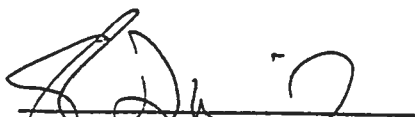
PROPER SHIPPING NAME: COMPOUND, CLEANING, LIQUID
HAZARD CLASS: COMBUSTIBLE LIQUID
ID NUMBER: NA1993

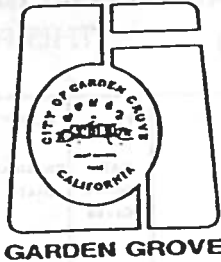
I. OTHER PRECAUTIONS:

None Abbreviations: NA: Not Available; N.D.: Not Determined.
Any TLV values not listed in THRESHOLD LIMIT VALUES and BIOLOGICAL EXPOSURE INDICES for 1988-1989 are values recommended by the manufacturer.

THE INFORMATION HEREIN IS GIVEN IN GOOD FAITH, BUT NO WARRANTY, EXPRESS OR IMPLIED, IS MADE. FOR FURTHER INFORMATION, CALL (714) 739-2821.

II. NAME OF PREPARER:


Sherce L. Kinzel



CITY OF GARDEN GROVE, CALIFORNIA

MAILING ADDRESS: P.O. BOX 3070, GARDEN GROVE, CALIFORNIA 92642
714-741-5600

FEB 17 11 07 AM '93

BUSINESS EMERGENCY PLAN

MAR 01 1993

Business Name F.T.B. : Son Inc.

Business Address 11551 MARKON DRIVE City Garden Grove State CA Zip 92641

Mailing Address 11551 MARKON DRIVE City Garden Grove State CA Zip 92641

Business Phone [REDACTED] Business License # 140829
Fax Number [REDACTED]

Owner/Operator: Name [REDACTED] Phone Number [REDACTED]

Address [REDACTED] City [REDACTED] State CA Zip [REDACTED]

Type of Business Operation Light metal fabrication

EPA # -N/A- SIC Code -N/A-

Emergency Contacts: Name Jesse D. Aycok

Address [REDACTED] City [REDACTED] State CA Zip [REDACTED]

24 Hour Phone Number [REDACTED] Phone Number [REDACTED]

Property Owner: Name [REDACTED] Phone Number [REDACTED]

Address [REDACTED] City [REDACTED] State CA Zip [REDACTED]

Total Number of Employees 47 Dun and Brad Street Numbers _____

Office Use Only

MLI# 28935 Short Long _____

OK 2-18-93

DATE: _____
PAGE: _____
A Hazardous Materials Disclosure Business is required by law to notify the Garden Grove Fire Department within 15 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.
5. Use of a previously undisclosed hazardous material.
6. A 100% increase in the quantity of a previously disclosed material.

	YES	NO
1. Are there any underground storage containers located on the business property?	_____	<u>X</u>
2. Is trade secret protection requested for any of the information included in this disclosure?	_____	<u>X</u>
3. Are there school(s), hospital(s), extended day care or long term health facilities within 1000 feet (straight line distance) of business property?	_____	<u>X</u>
4. Are extremely Hazardous Materials or Acutely Hazardous Materials being handled on business property (State and Federal reporting)?	_____	<u>X</u>

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

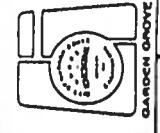
Print Name of Owner: _____

Print Name of Document Preparer: _____

Signature of Owner/Operator: _____ Date: 2-15-93

NOTE: Keep a copy of entire disclosure packet for your records.

RETURN THE ORIGINAL DISCLOSURE FORM, BUSINESS PLAN, AND MSDS SHEETS TO THE GARDEN GROVE FIRE DEPARTMENT



HAZARDOUS MATERIALS DISCLOSURE FORM

THIS FORM IS TO BE TYPEWRITTEN.

BUSINESS NAME: F.T.B. & SON INC
 ADDRESS: 1551 MARKON DR., GARDEN GROVE 92641
 MLI # 28935 (office use only)

DATE: _____
 PAGE # _____

1. TRADE NAME	2. HAZARDOUS SUBSTANCES IN PRODUCT (top 3 as per % weight on MSDS)	3. CAS NO.	4. SARA Hazard Class	5. Physical State	6. MAX DAILY AMOUNT	7. AVG. DAILY AMOUNT	8. DAYS ON SITE	9. CONTAINER TYPE	10. STORAGE CODE PRESSURE/TEMP.	11. LOCATION (NOTE BY QUADRANT AND DESCRIBE AREA)	12. STATE WASTE NUMBER (3 DIGIT CODE)	13. DOT/UN/NA NUMBER	14. HAZARD CLASS
1. Acetylene	Acetylene	74-86-2	1	G	30 Cubic	30 Cubic	365	K	1/1	By west wall near exit - Y quadrant			10
2. Oxygen	Oxygen	7782-44-7	2	G	120 Cubic	120 Cubic	365	K	1/1	By west wall near exit - Y quadrant			17
3. Argon	Argon	Not Established	2	G			365	K	1/1	By west wall near exit - Y quadrant			15
4. Safety Solvent	Ethylene Glycol N-Butyl	CAS: 111-76-2	2	L	55 gal	55 gal	365	E	1/1	By east wall next to punch - W quadrant			11
5. Cutting Oil	Distillates (Pet) Solvent Paraffinic Distillates (Pet) Hydrocracked Paraffinic Paraffin Oils Sulfonated Liquified Petroleum gas or Propane	64742-65-0 64742-54-7 68201-54-7 74-98-6	2	L	55 gal	55 gal	365	E	1/1	By truck wall near compressor - Z quadrant		49 CFR	11
6. Propane			1	L	48 gal	35 gal	365	K	1/1	By Northeast Wall Near Exit and on Forklifts			10
7.													
8.													
9.													
10.													
11.													
12.													
13.													
14.													
15.													

Table#1 SARA Hazard	Table#2 Physical State	Table#3 Amount Chart	Table#4 Container Type																											
1- Fire 2- Sudden Release of Pressure 3- Reactivity 4- Immediate (Acute) 5- Delayed (Chronic)	P-Pure M-Mixture S-Solid (Report pounds) L-Liquid (Report gallons) G-Gas (Report cubic feet)	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Value</th> <th>Amount</th> <th>Range</th> </tr> </thead> <tbody> <tr><td>00</td><td>0</td><td>99</td></tr> <tr><td>01</td><td>100</td><td>299</td></tr> <tr><td>02</td><td>300</td><td>599</td></tr> <tr><td>03</td><td>600</td><td>999</td></tr> <tr><td>04</td><td>1000</td><td>5999</td></tr> <tr><td>05</td><td>6000</td><td>9999</td></tr> <tr><td>06</td><td>10000</td><td>19999</td></tr> <tr><td>07</td><td>20000</td><td>49999+</td></tr> </tbody> </table>	Value	Amount	Range	00	0	99	01	100	299	02	300	599	03	600	999	04	1000	5999	05	6000	9999	06	10000	19999	07	20000	49999+	A- Aboveground Tank B- Bag(s) C- Box(s) D- Carboy(s) E- Drum(s) or Barrel(s) F- Fixed Pressurized Cylinders G- Glass Containers H- In Machinery or Equip. I- Insulated Tank (Cryogenics) J- Metal Containers K- Movable Pressurized Cylinders L- Plastic Containers M- Rail Car N- Silo O- Tank inside building P- Underground Tank Q- Other
Value	Amount	Range																												
00	0	99																												
01	100	299																												
02	300	599																												
03	600	999																												
04	1000	5999																												
05	6000	9999																												
06	10000	19999																												
07	20000	49999+																												
Table#5 Storage Code Pressure / Temperature 1- Ambient 2- Less than ambient 3- Greater than ambient * Ambient = room pressure or temperature		Table#6 Hazard Class (see MSDS sheets for info) 1- Blasting Agent 2- Carcinogen 3- Combustible Liquids 4- Corrosive 5- Cryogenics 6- Etiologic Agents 7- Explosive A 8- Explosive B 9- Explosive C 10- Flammable Compressed Gas 11- Flammable Liquid 12- Flammable Solid 13- Hypergolic 14- Irritant 15- Non Flammable Compressed Gas 16- Organic Peroxide 17- Oxidizer 18- Pesticide 19- Poison A (Compressed Poisonous Gas) 20- Poison B (Solid/Liquid) 21- Pyrophoric or Spontaneously Combustible 22- Radioactive																												

2.15.96
P.M.

GARDEN GROVE FIRE DEPARTMENT

HAZARDOUS MATERIALS DISCLOSURE

SHORT FORM

Business Name F.T.B. & SON

Business Address 11551 MARKON DR. City GARDEN GROVE State CA Zip 92641

Mailing Address 11551 MARKON DR. City GARDEN GROVE State CA Zip 92641

Business Phone () 714) 891-8003 Fax Number () 714) 892-0644

Owner/Operator Name [REDACTED] Home Phone ([REDACTED]

Home Address [REDACTED] City [REDACTED] State CA Zip [REDACTED]

24 Hour Emergency Contact Phone Numbers [REDACTED] Number of Employees 53

DISCLOSURE STATEMENT:

I have reviewed the disclosure which I have on file at my business and which is the same file as submitted to Garden Grove Fire Department, during our last disclosure period. All business names, processes, practices, chemical storage, use, and quantity amounts have remained unchanged from the disclosure on file, and shall remain in effect through the next disclosure period.

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We at the business of F.T.B. & SON INC. meet the above requirement for a short form disclosure. The under signed is a responsible party within this business, and has the authority to make the proper determination of the companies practices. This signature is considered under the penalty of perjury.

[Signature] Date 1-6-95
Business Official Signature

Office Use Only

MLI# _____ Short _____ Long _____ Date/By 1-12-95 [Signature]