



CITY OF GARDEN GROVE
FIRE DEPARTMENT

Tel: (714) 741-5600
Fax: (714) 741-5640

6/2/2016

Mark E. Bryant
Bryant GeoEnvironmental

RE: Records Search for 12151 Monarch St., Garden Grove CA

Dear Mark E. Bryant:

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

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

Sincerely,

Thanh Nguyen
Fire Captain/Senior Fire Protection Specialist

**Violation List for
O K INTERNATIONAL INC.
12151 MONARCH St**

Date Issued	Date Cleared	Code #	Violation Description
08/12/2014	10/09/2014	CFC 1011.2	Provide illuminated exit sign(s).
08/12/2014	10/09/2014	HSC 25505(e)	Failure to submit a Business Emergency Plan.
02/27/2008	03/12/2008		North West corner - provide exit sign.
02/27/2008	03/12/2008	Title 19, Sec.	5 yr. certification on sprinkler / standpipe system.
02/27/2008	03/12/2008	CFC 1006.1	Provide and maintain approved emergency lighting.
02/21/2007	03/07/2007		Replace bulb / repair exit sign (doorway leading to shop)
02/21/2007	03/07/2007		Repair ceiling tiles - fire control room.
03/09/2006	04/17/2006		3 exits on hallway need magnets.
03/09/2006	04/17/2006		Fire door north to warehouse.
03/09/2006	04/17/2006		Fill hole in ceiling - electrical room.
03/09/2006	04/17/2006		Label the fire control room - fix tile also.
03/09/2006	04/17/2006	8509.2	Keep 30" clear for access in front of electrical panel - warehouse off
03/09/2006	04/17/2006	CFC 8506	Discontinue use of extension cords.-warehouse
03/09/2006	04/17/2006	CFC 1212.4	Provide illuminated exit sign(s).- Office - SW, west - Warehouse NW



GARDEN GROVE FIRE DEPARTMENT

11301 Acacia Parkway, P. O. Box 3070
Garden Grove, CA 92842 (714) 741-5600

FINAL NOTICE AND ORDER OF THE FIRE CHIEF

Address of violation(s): 12151 Monarch St

Date 9/11/14

Occupant or DBA: OK International Inc

Insp. No 1986

Business Owner Information:

Building Owner Information:

Owner: OK INTERNATIONAL Inc

Owner: _____

Address: 12151 Monarch St.

Address: _____

City: Garden Grove

City: _____

Phone: (714) 799-9910 Zip: 92841

Phone: _____

Zip: _____

A fire safety inspection at the above-named occupancy revealed violation(s) of the California Fire Code. You were provided written notification of the violation(s) and a reinspection was scheduled for 8/12/14, 9/11/14.

Upon reinspection, the following violation(s) was/were found to be uncorrected:

- HSC. Ch. 6.95 Sec. 25404, 25500-25520

Failure to Submit HMBP

- CFC 1011.1 - MAINTAIN ILLUMINATED EXIT

Pursuant to Section 110.4 of the 2013 California Fire Code as adopted by Section 18.04.010 of the Garden Grove Municipal Code, you are hereby ordered to make all corrections as listed.

A FINAL reinspection will be made on 9/25, 2014. Failure to comply with all items of this order listed above constitutes a criminal offense and may subject the violator to criminal prosecution, administrative fines in an amount up to \$1,000 per violation and/or other enforcement actions as available.

2867

Inspector

Condition upon Final reinspection: _____

Inspector Signature: _____

Date: _____

Administrative Citation issued on _____



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 # 1986
 Fire District 2314
 Inspector FPB Shift N
 Next Insp 4 / 2014

Occupant or DBA O K INTERNATIONAL INC. Business Tel 714 799-9910
 Address 12151 MONARCH St Suite Zip 92841
 Business Owner ~~KRIS ROST~~ JOSEPH COGGINS 949-870-5424 Tel 714-590-9696
 Emergency Contact CHARLIE CAMERENA Tel 714 310-5128

Group S1 Load Sprinklers F/P/N P 5 yr. Cert. 2 / 2008 Haz Mat

** Esubmit needed*
** Combo inspection*

use, handling or storage, 811031 HIGH-PILED COMBUSTIBLE STOCK, and / open flame.

and the following violation(s) :

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 5704.3.4.4)
- Provide approved safety container(s) for flammable liquids (CFC 5704.3.1)

HAZARDOUS MATERIALS DISCLOSURE

(HSC CHAPTER 6.95 Section 25404, 25500 - 25520)

- Failure to implement and/or electronically submit a HMBP www.esubmit.ocgov.com *MINOR*
- 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 and owner
- Failure to report a release or threatened release
- Failure to submit annual certification
- NO VIOLATIONS
- MINOR VIOLATION
- CLASS II VIOLATION
- CLASS I VIOLATION

35 GAL CUTTING OIL
400A OXYGEN

- Provide/maintain illuminated exit sign(s) (CFC 1011.1) *REAR CUSTOMER SERVICE SOFT EXIT EAST*
- 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 315.3.1)
- Secure compressed gas cylinders (CFC 5303.5.3)
- Post Business License Fire Department permit (CFC 105.3.5)

NO VIOLATIONS *400A OXYGEN ACETYLENE 100A*

ADDITIONAL VIOLATIONS AND/OR NOTES

Emergency LIGHT - QUANTITY ONSITE INVENTORY MATCHES HMBP
Annual for Alarm Report, 5 year sprinkler

Business representative signature *Paul* Date 8/12/14

Inspector Name/ ID # 2867 NOYVA Date 8/12/14

Cleared 10/9/14 Mailback card due 1/1 Re-inspection date 8/26/14 Final Notice 1/1

GARDEN GROVE



FIRE DEPARTMENT

HAZARDOUS MATERIALS DISCLOSURE PROGRAM

REPORTING FORMS PACKET

SHORT VERSION

FOR OFFICIAL USE ONLY	
FACILITY ID NO.	<u>1986</u>
BUSINESS NAME	<u>OK International Inc.</u>
BUSINESS ADDRESS	<u>12151 Monarch St</u>
APPROVED BY	<u>G</u> DATE <u>3/8/11</u>
NEW BUSINESS	<input type="checkbox"/> YES <input type="checkbox"/> NO UPDATE _____
PICK	<u>4D</u> BUSLIST <u> </u> CALARP: <u> </u> CUPA: <u> </u> GIS <u> </u>
FEE	_____



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 1 of 1 3

BUSINESS INFORMATION

FACILITY # (Supplied by GGFD)	3 0 0 3 5	BEGINNING DATE	3/2011	ENDING DATE	3/2014
BUSINESS NAME	OK International, Inc.			BUSINESS PHONE	714-799-9910
BUSINESS SITE ADDRESS	12151 Monarch Street				
CITY	GARDEN GROVE	STATE	CA	ZIP	92841
DUN & BRADSTREET		SIC CODE (4 DIGIT #)	3423	FIRE DISTRICT	
COUNTY	ORANGE				
BUSINESS OPERATOR NAME	Steve Singer			OPERATOR'S PHONE	714-230-2319

BUSINESS OWNER

OWNER NAME	Dover Corporation	OWNER PHONE	
OWNER MAILING ADDRESS	280 Park Avenue		
CITY	New York	STATE	NY
		ZIP	10017

ENVIRONMENTAL CONTACT

CONTACT NAME	Steve Singer	CONTACT PHONE	714-230-2319
CONTACT MAILING ADDRESS	12151 Monarch Street		
CITY	Garden Grove	STATE	CA
		ZIP	92841

PRIMARY

EMERGENCY CONTACTS

SECONDARY

NAME	Steve Singer	NAME	Martin Wilcox	Eulogio Martinez
TITLE	Operations Manager	TITLE	Production Manager	Maintenance
BUSINESS PHONE	714-230-2319	BUSINESS PHONE	714-230-2312	714-799-9910 x2211
PAGER #		PAGER #		

ADDITIONAL LOCALLY COLLECTED INFORMATION

DESCRIBE THE TYPE OF BUSINESS OPERATION:	Bench Top Equipment Assembly	TOTAL # OF EMPLOYEES	150
BILLING ADDRESS (IF DIFFERENT FROM ABOVE)		ATTENTION	Accounts Payable
PROPERTY OWNER NAME	West Cal Portfolio Partners, Phase I, LLC	PHONE	714-960-4777
ADDRESS	P.O. Box 1264, Sunset Beach, CA 90792		

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	<i>S. Singer</i>	DATE	3/29/2008
NAME OF SIGNER (print)	Steve Singer	NAME OF DOCUMENT PREPARER (print)	Steve Singer
TITLE OF SIGNER	Operations Manager	TITLE OF DOCUMENT PREPARER	Operations Manager



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

CUPA

FACILITY INFORMATI

BUSINESS ACTIVITIES

I. FACILITY IDENTIFICATION

FACILITY ID# 3 0 0 3 5 1. EPA ID # (Hazardous Waste Only) CAL000214830

BUSINESS NAME (Same as FACILITY NAME or DBA-Doing Business As) OK International

II. ACTIVITIES DECLARATION

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

Does your facility...

If Yes, please complete these pages of the UPCF...

A. HAZARDOUS MATERIALS

Have on site (for any purpose) hazardous materials at or above 55 gallons for liquids, 500 pounds for solids, or 200 cubic feet for compressed gases (include liquids in ASTs and USTs); or the applicable Federal threshold quantity for an extremely hazardous substance, specified in 40 CFR Part 355, Appendix A or B; or handle radiological materials in quantities for which an emergency plan is required pursuant to 10 CFR Parts 30, 40 or 70?

YES NO

4. HAZARDOUS MATERIALS INVENTORY - CHEMICAL DESCRIPTION (Form 3)

B. UNDERGROUND STORAGE TANKS (USTs)

- Own or operate underground storage tanks?
- Intent to upgrade existing or install new USTs?
- Need to report closing a UST?

YES NO

5. UST FACILITY (Formerly SWRCB Form A)

YES NO

6. UST FACILITY

YES NO

UST TANK (one per tank)

YES NO

UST TANK (one per tank)

YES NO

UST INSTALLATION - CERTIFICATE OF COMPLIANCE (one page per tank) (Formerly Form C)

YES NO

UST TANK (closure portion-one page per tank)

C. ABOVE GROUND PETROLEUM STORAGE TANKS (ASTs)

Own or operate ASTs above these thresholds:
- any tank capacity is greater than 660 gallons, or
- the total aggregate capacity for the entire facility (ASTs, drums and portable containers) greater than 1,320 gallons?

YES NO

8. NO FORM REQUIRED TO CUPAS

D. HAZARDOUS WASTE

- Generate hazardous waste?
- Recycle more than 100 kg/month of excluded or exempted recyclable materials (per HSC §25143.2)?
- Treat hazardous waste on site?
- Treatment subject to financial assurance requirements (for Permit by Rule and Condition Authorization)?
- Consolidate hazardous waste generated at a remove site?
- Need to report the closure/removal of a tank that was classified waste and cleaned onsite?

YES NO

9. EPA ID NUMBER - provide at the top of this page

YES NO

10. RECYCLABLE MATERIALS REPORT (one per recycler)

YES NO

11. ONSITE HAZARDOUS WASTE TREATMENT - FACILITY (Formerly DTSC Forms 1772)

YES NO

ONSITE HAZARDOUS WASTE TREATMENT - UNIT (one page per unit) (Formerly DTSC Forms 1772A,B,C,D and L)

YES NO

12. CERTIFICATION OF FINANCIAL ASSURANCE (Formerly DTSC Form 1232)

YES NO

13. REMOTE WASTE/CONSOLIDATION SITE ANNUAL NOTIFICATION (Formerly DTSC Form 1196)

YES NO

14. HAZARDOUS WASTE TANK CLOSURE CERTIFICATION (Formerly DTSC Form 1249)

E. LOCAL REQUIREMENTS

Cal-ARP: California Accidental Release Prevention Program
H&SC Chapter 6.95, Article 2, §25531 et seq
— Stationary Source with more than a Threshold Quantity of a Regulated Substance in a Process

YES NO

15. REGULATED SUBSTANCE REPORTING FORM (Orange County CUPA)



HAZARDOUS MATERIALS INVENTORY FORM

FORM 3

ADD DELETE REVISED Page 1 of 2

FACILITY ID#	3 0 0 3 5	BUSINESS NAME	OK INTERNATIONAL
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I. FACILITY INFORMATION

CHEMICAL LOCATION
12151 MONARCH ST. GARDEN GROVE 92891 MACHINE SHOP

CONFIDENTIAL LOCATION EPCRA Yes No 5 MAP # 6 GRID # 7

II. CHEMICAL INFORMATION

CHEMICAL NAME OXYGEN WASTE Yes 8 TRADE SECRET Yes No 11
* If EPCRA see instructions

COMMON NAME OXYGEN USP, ABO, 9 An EHS Chemical Yes No 12
*If EHS is "Yes", all amounts must be LBS

CAS # 7782-44-7 10 FIRE CODE HAZARD CLASSES (supplied by GGFD) 13

TYPE (Check one item only) a. PURE b. MIXTURE c. WASTE 14 RADIOACTIVE Yes No 15 CURIES 16

PHYSICAL STATE (Check one item only) a. SOLID b. LIQUID c. GAS 17 FED HAZARD CATEGORIES: a. FIRE b. REACTIVE c. PRESSURE RELEASE 18
 d. ACUTE HEALTH e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT 5 CU.FT 19 MAXIMUM DAILY AMOUNT 10 CU.FT 20 ANNUAL WASTE AMOUNT 21 STATE WASTE CODE 22

UNITS a. GALLONS b. CUBIC FEET MAX. = 167 CU.FT 23 DAYS ON SITE 60 24 LARGEST CONTAINER 100 CU.FT. 25
 c. POUNDS d. TONS

STORAGE CONTAINER (Check all that apply) a. ABOVEGROUND TANK e. PLASTIC DRUM i. VAT m. CYLINDER q. TANK WAGON 26
 b. UNDERGROUND TANK j. NONMETALLIC DRUM l. FIBER DRUM n. GLASS CONTAINER r. RAIL CAR
 c. TANK INSIDE BLDG o. METAL CONTAINER k. BAG(S) p. PLASTIC CONTAINER s. TOTE BIN
 d. STEEL DRUM h. CARBOY j. BOX(S) p. IN MACH OR EQUIP t. OTHER

STORAGE PRESSURE a. AMBIENT b. ABOVE AMBIENT c. BELOW AMBIENT 27

STORAGE TEMPERATURE a. AMBIENT b. ABOVE AMBIENT c. BELOW AMBIENT d. CRYOGENIC 28

%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	CAS #
1	29	<input type="checkbox"/> Yes <input type="checkbox"/> No 31	32
2	29	<input type="checkbox"/> Yes <input type="checkbox"/> No 31	32
3	29	<input type="checkbox"/> Yes <input type="checkbox"/> No 31	32
4	29	<input type="checkbox"/> Yes <input type="checkbox"/> No 31	32
5	29	<input type="checkbox"/> Yes <input type="checkbox"/> No 31	32

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

PLACARDING INFORMATION

UNDOT # UN1072 33 Refer to shipping papers or MSDS

DOT HAZARD CLASS 2.2 34 Refer to shipping papers or MSDS

EPCRA YES NO 35

36 If EPCRA, Please Sign Here

NFPA 704 HAZARD DIAMOND
FIRE (RED) 0
HEALTH (BLUE) 0
SPECIAL HAZARD (WHITE) OXY
REACTIVE (YELLOW) 0

MAKE AS MANY COPIES OF CHEMICAL INVENTORY FORM AS NEEDED

Material Safety Data Sheet

Airgas

Oxygen

Section 1. Chemical product and company identification

Product Name : Oxygen
Supplier : AIRGAS INC., on behalf of its subsidiaries
259 North Radnor-Chester Road
Suite 100
Radnor, PA 19087-5283
1-610-687-5253
Product use : Synthetic/Analytical chemistry.
Synonym : oxygen (dot), Oxygen USP, Aviator's Breathing Oxygen (ABO)
MSDS# : 001043
Date of Preparation/Revision : 7/30/2007.
In case of emergency : 1-866-734-3438

Section 2. Hazards identification

Physical state : Gas.
Emergency overview : Warning!
OXIDIZER.
CONTENTS UNDER PRESSURE.
Contact with combustible material may cause fire.
Do not puncture or incinerate container. Store in tightly closed container. Avoid contact with combustible materials.
Contact with rapidly expanding gases or liquids can cause frostbite.
Routes of entry : Inhalation
Potential acute health effects
Eyes : No known significant effects or critical hazards.
Skin : No known significant effects or critical hazards.
Inhalation : Slightly irritating to the respiratory system. Practically non-toxic by inhalation.
Ingestion : Ingestion is not a normal route of exposure for gases
Potential chronic health effects : **CARCINOGENIC EFFECTS** Not available.
MUTAGENIC EFFECTS Not available.
TERATOGENIC EFFECTS: Not available.
Medical conditions aggravated by overexposure : Acute or chronic respiratory conditions may be aggravated by overexposure to this gas.
See toxicological Information (section 11)

Section 3. Composition, Information on Ingredients

<u>Name</u>	<u>CAS number</u>	<u>% Volume</u>	<u>Exposure limits</u>
Oxygen	7782-44-7	100	

Section 4. First aid measures

No action shall be taken involving any personal risk or without suitable training. If fumes are still suspected to be present, the rescuer should wear an appropriate mask or a self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Eye contact : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.
Skin contact : In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
Frostbite : Try to warm up the frozen tissues and seek medical attention.

Oxygen

- Inhalation** : If inhaled, remove to fresh air. If not breathing, give artificial respiration. Get medical attention.
- Ingestion** : Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.

Section 5. Fire fighting measures

- Flammability of the product** : Non-flammable.
- Fire fighting media and instructions** : Use an extinguishing agent suitable for surrounding fires.
- If involved in fire, shut off flow immediately if it can be done without risk. Apply water from a safe distance to cool container and protect surrounding area.
- This material increases the risk of fire and may aid combustion. Contact with combustible material may cause fire.
- Special protective equipment for fire-fighters** : Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full facepiece operated in positive pressure mode.

Section 6. Accidental release measures

- Personal precautions** : Immediately contact emergency personnel. Eliminate all ignition sources. Keep unnecessary personnel away. Use suitable protective equipment (Section 8). Do not touch or walk through spilled material.
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 7. Handling and storage

- Handling** : Store in tightly closed container. Avoid contact with combustible materials. Do not puncture or incinerate container. High pressure gas. Use equipment rated for cylinder pressure. Close valve after each use and when empty. Protect cylinders from physical damage; do not drag, roll, slide, or drop. Use a suitable hand truck for cylinder movement.
- Never allow any unprotected part of the body to touch uninsulated pipes or vessels that contain cryogenic liquids. Prevent entrapment of liquid in closed systems or piping without pressure relief devices. Some materials may become brittle at low temperatures and will easily fracture.
- Storage** : Keep container tightly closed. Keep container in a cool, well-ventilated area. Cylinders should be stored upright, with valve protection cap in place, and firmly secured to prevent falling or being knocked over. Cylinder temperatures should not exceed 52 °C (125 °F).

Section 8. Exposure Controls, Personal Protection

- Engineering controls** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits.
- Personal protection**
- Eyes** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.
- When working with cryogenic liquids, wear a full face shield.
- Skin** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
- The applicable standards are (US) 29 CFR 1910.134 and (Canada) Z94.4-93

Oxygen

Hands : Chemical-resistant, impervious gloves or gauntlets complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Insulated gloves suitable for low temperatures

Personal protection in case of a large spill : A self-contained breathing apparatus should be used to avoid inhalation of the product.

Consult local authorities for acceptable exposure limits.

Section 9. Physical and chemical properties

Molecular weight : 32 g/mole
Molecular formula : O₂
Boiling/condensation point : -183.11°C (-297.6°F)
Melting/freezing point : -218.55°C (-361.4°F)
Critical temperature : Not available.
Vapor density : 1.105 (Air = 1)
Specific Volume (ft³/lb) : 12.0482
Gas Density (lb/ft³) : 0.083

Section 10. Stability and reactivity

Stability and reactivity : The product is stable.
Incompatibility with various substances : Extremely reactive or incompatible with reducing agents, combustible materials.

Section 11. Toxicological information

Other toxic effects on humans : No specific information is available in our database regarding the other toxic effects of this material for humans.

Specific effects

Carcinogenic effects : No known significant effects or critical hazards.
Mutagenic effects : No known significant effects or critical hazards.
Reproduction toxicity : No known significant effects or critical hazards.

Section 12. Ecological information

Toxicity of the products of biodegradation : The product itself and its products of degradation are not toxic.

Environmental fate : Not available.



Environmental hazards : No known significant effects or critical hazards.

Toxicity to the environment : Not available.





Section 13. Disposal considerations

Product removed from the cylinder must be disposed of in accordance with appropriate Federal, State, local regulation. Return cylinders with residual product to Airgas, Inc. Do not dispose of locally.

Section 14. Transport information

Regulatory information	UN number	Proper shipping name	Class	Packing group	Label	Additional information
DOT Classification	UN1072	OXYGEN, COMPRESSED	2.2	Not applicable (gas).		Limited quantity Yes.
	UN1073	Oxygen, refrigerated liquid				Packaging instruction Passenger

Oxygen

						Aircraft Quantity limitation: 75 kg Cargo Aircraft Quantity limitation: 150 kg Special provisions A52
TDG Classification	UN1072 UN1073	OXYGEN, COMPRESSED Oxygen, refrigerated liquid	2.2	Not applicable (gas).	 	Explosive Limit and Limited Quantity Index 0.125 ERAP Index 3000 Passenger Carrying Ship Index 50 Passenger Carrying Road or Rail Index 75 Special provisions 42
Mexico Classification	UN1072 UN1073	OXYGEN, COMPRESSED Oxygen, refrigerated liquid	2.2	Not applicable (gas).	 	-

Section 15. Regulatory information

United States

U.S. Federal regulations : TSCA 8(b) inventory: Oxygen
 SARA 302/304/311/312 extremely hazardous substances: No products were found.
 SARA 302/304 emergency planning and notification: No products were found.
 SARA 302/304/311/312 hazardous chemicals: Oxygen
 SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Oxygen:
 Fire hazard, Sudden Release of Pressure, Delayed (Chronic) Health Hazard
 Clean Water Act (CWA) 307: No products were found.
 Clean Water Act (CWA) 311: No products were found.
 Clean air act (CAA) 112 accidental release prevention: No products were found.
 Clean air act (CAA) 112 regulated flammable substances: No products were found.
 Clean air act (CAA) 112 regulated toxic substances: No products were found.

Oxygen

State regulations : Pennsylvania RTK: Oxygen: (generic environmental hazard)
Massachusetts RTK: Oxygen
New Jersey: Oxygen

Canada

WHMIS (Canada) : Class A: Compressed gas.
Class C: Oxidizing material.
CEPA DSL: Oxygen

Section 16. Other information

United States

Label Requirements : OXIDIZER.
CONTENTS UNDER PRESSURE.
CONTACT WITH OTHER MATERIAL MAY CAUSE FIRE.

Canada

Label Requirements : Class A: Compressed gas.
Class C: Oxidizing material.

**Hazardous Material
Information System (U.S.A.)** :

Health	0
Fire hazard	0
Reactivity	0
Personal protection	C

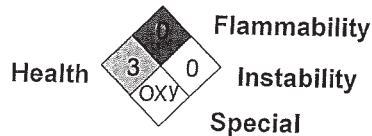
liquid:

Health	3
Fire hazard	0
Reactivity	0
Personal protection	

**National Fire Protection
Association (U.S.A.)** :



liquid:



Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.



HAZARDOUS MATERIALS INVENTORY FORM

FORM 3

ADD DELETE REVISED 1

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FACILITY ID#	3 0 0 3 5	38	BUSINESS NAME	OK INTERNATIONAL	3
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I. FACILITY INFORMATION

CHEMICAL LOCATION	12151 MONARCH ST. GARDEN GROVE 92841 MACHINE SHOP					4
CONFIDENTIAL LOCATION EPCRA	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5	MAP #	6	GRID #	7

II. CHEMICAL INFORMATION

CHEMICAL NAME	ACETYLENE DISSOLVED	WASTE	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	8	TRADE SECRET	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	11	
COMMON NAME	ETHYNE, ACETYLEN, ETHINE, UN1001			9	An EHS Chemical	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	12	
CAS #	74-86-2	FIRE CODE HAZARD CLASSES (supplied by GGFD)	10					13
TYPE (Check one item only)	<input checked="" type="checkbox"/> a. PURE	<input type="checkbox"/> b. MIXTURE	<input type="checkbox"/> c. WASTE	14	RADIOACTIVE	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	15	
PHYSICAL STATE (Check one item only)	<input type="checkbox"/> a. SOLID	<input type="checkbox"/> b. LIQUID	<input checked="" type="checkbox"/> c. GAS	17	FED HAZARD CATEGORIES	<input checked="" type="checkbox"/> a. FIRE	<input type="checkbox"/> b. REACTIVE	
						<input checked="" type="checkbox"/> c. PRESSURE RELEASE	18	
						<input checked="" type="checkbox"/> d. ACUTE HEALTH	<input type="checkbox"/> e. CHRONIC HEALTH	
AVERAGE DAILY AMOUNT	5 CU.FT.	MAXIMUM DAILY AMOUNT	10 CU.FT.	20	ANNUAL WASTE AMOUNT	21	STATE WASTE CODE	22
UNITS	<input type="checkbox"/> a. GALLONS	<input checked="" type="checkbox"/> b. CUBIC FEET	<input type="checkbox"/> c. POUNDS	<input type="checkbox"/> d. TONS	DAYS ON SITE	60	LARGEST CONTAINER	100 CU.FT.
	*If EHS, amount must be in pounds. MAX = 188 CU.FT.							23
STORAGE CONTAINER (Check all that apply)	<input type="checkbox"/> a. ABOVEGROUND TANK	<input type="checkbox"/> e. PLASTIC DRUM	<input type="checkbox"/> i. VAT	<input checked="" type="checkbox"/> m. CYLINDER	<input type="checkbox"/> q. TANK WAGON	26		
	<input type="checkbox"/> b. UNDERGROUND TANK	<input type="checkbox"/> f. NONMETALLIC DRUM	<input type="checkbox"/> j. FIBER DRUM	<input type="checkbox"/> n. GLASS CONTAINER	<input type="checkbox"/> r. RAIL CAR			
	<input type="checkbox"/> c. TANK INSIDE BLDG	<input type="checkbox"/> g. METAL CONTAINER	<input type="checkbox"/> k. BAG(S)	<input type="checkbox"/> o. PLASTIC CONTAINER	<input type="checkbox"/> s. TOTE BIN			
	<input type="checkbox"/> d. STEEL DRUM	<input type="checkbox"/> h. CARBOY	<input type="checkbox"/> l. BOX(S)	<input type="checkbox"/> p. IN MACH OR EQUIP	<input type="checkbox"/> t. OTHER			
STORAGE PRESSURE	<input checked="" type="checkbox"/> a. AMBIENT	<input type="checkbox"/> b. ABOVE AMBIENT	<input type="checkbox"/> c. BELOW AMBIENT	27				
STORAGE TEMPERATURE	<input checked="" type="checkbox"/> a. AMBIENT	<input type="checkbox"/> b. ABOVE AMBIENT	<input type="checkbox"/> c. BELOW AMBIENT	<input type="checkbox"/> d. CRYOGENIC	28			

%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	CAS #
1	29	<input type="checkbox"/> Yes <input type="checkbox"/> No	31
2	29	<input type="checkbox"/> Yes <input type="checkbox"/> No	31
3	29	<input type="checkbox"/> Yes <input type="checkbox"/> No	31
4	29	<input type="checkbox"/> Yes <input type="checkbox"/> No	31
5	29	<input type="checkbox"/> Yes <input type="checkbox"/> No	31

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

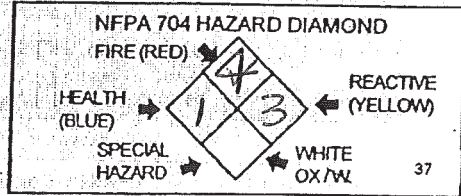
PLACARDING INFORMATION

UNDOT # UN1001 33
 Refer to shipping papers or MSDS

DOT HAZARD CLASS 2.1 34
 Refer to shipping papers or MSDS

EPCRA YES NO 35

X 36
 If EPCRA, Please Sign Here



MAKE AS MANY COPIES OF CHEMICAL INVENTORY FORM AS NEEDED

Material Safety Data Sheet

Acetylene

Section 1. Chemical product and company identification

Product name : Acetylene
Supplier : AIRGAS INC., on behalf of its subsidiaries
259 North Radnor-Chester Road
Suite 100
Radnor, PA 19087-5283
1-610-687-5253
Product use : Synthetic/Analytical chemistry.
Synonym : Ethyne; Ethine; Narcylen; C₂H₂; Acetylen; UN 1001; Vinylene
MSDS # : 001001
Date of Preparation/Revision : 4/8/2008.
In case of emergency : 1-866-734-3438

Section 2. Hazards identification

Physical state : Gas.
Emergency overview : **WARNING!**
FLAMMABLE GAS.
MAY CAUSE FLASH FIRE.
MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA.
CONTENTS UNDER PRESSURE.
Keep away from heat, sparks and flame. Do not puncture or incinerate container. May cause target organ damage, based on animal data. Use only with adequate ventilation. Keep container closed.
Contact with rapidly expanding gases can cause frostbite.
Target organs : May cause damage to the following organs: upper respiratory tract, central nervous system (CNS).
Routes of entry : Inhalation
Potential acute health effects
Eyes : Contact with rapidly expanding gas may cause burns or frostbite.
Skin : Contact with rapidly expanding gas may cause burns or frostbite.
Inhalation : Acts as a simple asphyxiant.
Ingestion : Ingestion is not a normal route of exposure for gases
Potential chronic health effects : **CARCINOGENIC EFFECTS:** Not available.
MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available.
Medical conditions aggravated by over-exposure : Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

See toxicological information (section 11)

Section 3. Composition, Information on Ingredients

<u>Name</u>	<u>CAS number</u>	<u>% Volume</u>	<u>Exposure limits</u>
Acetylene	74-86-2	100	NIOSH REL (United States, 12/2001). CEIL: 2662 mg/m ³

Section 4. First aid measures

No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

- Eye contact** : Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.
- Skin contact** : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. To avoid the risk of static discharges and gas ignition, soak contaminated clothing thoroughly with water before removing it. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.
- Frostbite** : Try to warm up the frozen tissues and seek medical attention.
- Inhalation** : Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.
- Ingestion** : As this product is a gas, refer to the inhalation section.

Section 5. Fire fighting measures

- Flammability of the product** : Flammable.
- Auto-ignition temperature** : 304.85°C (580.7°F)
- Flash point** : Closed cup: -18.15°C (-0.7°F).
- Flammable limits** : Lower: 2.5% Upper: 82%
- Products of combustion** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
- Fire hazards in the presence of various substances** : Extremely flammable in the presence of the following materials or conditions: open flames, sparks and static discharge, heat and oxidizing materials.
- Fire-fighting media and instructions** : In case of fire, use water spray (fog), foam or dry chemical.
- In case of fire, allow gas to burn if flow cannot be shut off immediately. Apply water from a safe distance to cool container and protect surrounding area. If involved in fire, shut off flow immediately if it can be done without risk.
- Contains gas under pressure. Flammable gas. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

- Personal precautions** : Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment (section 8). Shut off gas supply if this can be done safely. Isolate area until gas has dispersed.
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
- Methods for cleaning up** : Immediately contact emergency personnel. Stop leak if without risk. Use spark-proof tools and explosion-proof equipment. Note: see section 1 for emergency contact information and section 13 for waste disposal.

Section 7. Handling and storage

- Handling** : Use only with adequate ventilation. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. High pressure gas. Do not puncture or incinerate container. Use equipment rated for cylinder pressure. Close valve after each use and when empty. Keep container closed. Keep away from heat, sparks and flame. To avoid fire, eliminate ignition sources. Protect cylinders from physical damage; do not drag, roll, slide, or drop. Use a suitable hand truck for cylinder movement.
- Storage** : Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame). Segregate from oxidizing materials. Cylinders should be stored upright, with valve protection cap in place, and firmly secured to prevent falling or being knocked over. Cylinder temperatures should not exceed 52 °C (125 °F).

Section 8. Exposure controls/personal protection

- Engineering controls** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Personal protection

- Eyes** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.
- Skin** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
- Hands** : The applicable standards are (US) 29 CFR 1910.134 and (Canada) Z94.4-93
: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Personal protection in case of a large spill** : Self-contained breathing apparatus (SCBA) should be used to avoid inhalation of the product.

Product name

acetylene

NIOSH REL (United States, 12/2001).
CEIL: 2662 mg/m³

Consult local authorities for acceptable exposure limits.

Section 9. Physical and chemical properties

- Molecular weight** : 26.04 g/mole
- Molecular formula** : C₂H₂
- Melting/freezing point** : Sublimation temperature: -81.8°C (-115.2°F)
- Critical temperature** : 35.3°C (95.5°F)
- Vapor pressure** : 635 (psig)
- Vapor density** : 0.9 (Air = 1)
- Specific Volume (ft³/lb)** : 14.7058
- Gas Density (lb/ft³)** : 0.068

Acetylene

Section 10. Stability and reactivity

- Stability and reactivity** : The product may undergo hazardous decomposition, condensation or polymerization, react violently with water to emit toxic gases or become self-reactive under conditions of shock or increase in temperature or pressure.
- Incompatibility with various substances** : Extremely reactive or incompatible with oxidizing agents
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- Hazardous polymerization** : Under normal conditions of storage and use, hazardous polymerization will not occur.

Section 11. Toxicological information

Toxicity data

- Chronic effects on humans** : May cause damage to the following organs: upper respiratory tract, central nervous system (CNS).
- Other toxic effects on humans** : No specific information is available in our database regarding the other toxic effects of this material to humans.

Specific effects

- Carcinogenic effects** : No known significant effects or critical hazards.
- Mutagenic effects** : No known significant effects or critical hazards.
- Reproduction toxicity** : No known significant effects or critical hazards.

Section 12. Ecological information

Aquatic ecotoxicity


Not available.



- Products of degradation** : Products of degradation: carbon oxides (CO, CO₂) and water.
- Environmental fate** : Not available.
- Environmental hazards** : No known significant effects or critical hazards.
- Toxicity to the environment** : Not available.

Section 13. Disposal considerations

Product removed from the cylinder must be disposed of in accordance with appropriate Federal, State, local regulation. Return cylinders with residual product to Airgas, Inc. Do not dispose of locally.

Section 14. Transport information

Regulatory information	UN number	Proper shipping name	Class	Packing group	Label	Additional information
DOT Classification	UN1001	ACETYLENE, DISSOLVED	2.1	Not applicable (gas).		Limited quantity Yes. Packaging instruction Passenger aircraft Quantity limitation: Forbidden. Cargo aircraft Quantity limitation: 15 kg

Acetylene						
TDG Classification	UN1001	ACETYLENE, DISSOLVED	2.1	Not applicable (gas).		<u>Explosive Limit and Limited Quantity Index</u> 0 <u>Passenger Carrying Ship Index</u> 75 <u>Passenger Carrying Road or Rail Index</u> Forbidden <u>Special provisions</u> 38, 42
Mexico Classification	UN1001	ACETYLENE, DISSOLVED	2.1	Not applicable (gas).		-

Section 15. Regulatory information

United States

- U.S. Federal regulations**
- : **United States inventory (TSCA 8b):** This material is listed or exempted.
 - SARA 302/304/311/312 extremely hazardous substances:** No products were found.
 - SARA 302/304 emergency planning and notification:** No products were found.
 - SARA 302/304/311/312 hazardous chemicals:** acetylene
 - SARA 311/312 MSDS distribution - chemical inventory - hazard identification:** acetylene: Fire hazard, reactive, Sudden release of pressure, Immediate (acute) health hazard
 - Clean Water Act (CWA) 307:** No products were found.
 - Clean Water Act (CWA) 311:** No products were found.
 - Clean Air Act (CAA) 112 accidental release prevention:** acetylene
 - Clean Air Act (CAA) 112 regulated flammable substances:** acetylene
 - Clean Air Act (CAA) 112 regulated toxic substances:** No products were found.
- State regulations**
- : **Connecticut Carcinogen Reporting:** This material is not listed.
 - Connecticut Hazardous Material Survey:** This material is not listed.
 - Florida substances:** This material is not listed.
 - Illinois Chemical Safety Act:** This material is not listed.
 - Illinois Toxic Substances Disclosure to Employee Act:** This material is not listed.
 - Louisiana Reporting:** This material is not listed.
 - Louisiana Spill:** This material is not listed.
 - Massachusetts Spill:** This material is not listed.
 - Massachusetts Substances:** This material is listed.
 - Michigan Critical Material:** This material is not listed.
 - Minnesota Hazardous Substances:** This material is not listed.
 - New Jersey Hazardous Substances:** This material is listed.
 - New Jersey Spill:** This material is not listed.
 - New Jersey Toxic Catastrophe Prevention Act:** This material is not listed.
 - New York Acutely Hazardous Substances:** This material is not listed.
 - New York Toxic Chemical Release Reporting:** This material is not listed.
 - Pennsylvania RTK Hazardous Substances:** This material is listed.
 - Rhode Island Hazardous Substances:** This material is not listed.

Acetylene

Canada

WHMIS (Canada) : Class A: Compressed gas.
Class B-1: Flammable gas.
Class F: Dangerously reactive material.
CEPA Toxic substances: This material is not listed.
Canadian ARET: This material is not listed.
Canadian NPRI: This material is listed.
Alberta Designated Substances: This material is not listed.
Ontario Designated Substances: This material is not listed.
Quebec Designated Substances: This material is not listed.

Section 16. Other information

United States

Label requirements : FLAMMABLE GAS.
MAY CAUSE FLASH FIRE.
MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA.
CONTENTS UNDER PRESSURE.

Canada

Label requirements : Class A: Compressed gas.
Class B-1: Flammable gas.
Class F: Dangerously reactive material.

Hazardous Material Information System (U.S.A.)

Health	*	1
Flammability		4
Physical hazards		3

National Fire Protection Association (U.S.A.)



Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.
Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Emergency Response Plan

**OK International, Inc.
January, 2010**

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EMERGENCY RESPONSE PLAN

GENERAL EMERGENCY RESPONSE

This section of the Emergency Response Plan (ERP) provides guidance for responding to an emergency situation. All employees are given training in Hazard Communications.

A. CALL FOR HELP

When an emergency occurs, notify the following people immediately, as necessary.

- Your Supervisor
- The Receptionist by dialing "0".
- If the Receptionist does not answer, dial 911 or act as directed by your Supervisor.

If you call 911, be prepared to provide the following information:

"We are at OK International, Inc. 12151 Monarch Street, Garden Grove. The nearest cross streets are Knott Street and Chapman Avenue."

- Describe the emergency situation
- Describe the danger that is present
- Tell what action has been taken by you and/or other people
- Describe what help you need
- Tell what injuries have occurred
- Don't hang up until told to do so

After you have called 911, join your designated evacuation group.

Chemical spill or threatened spill: Contact Facilities Management
Injury or serious illness: Contact Facilities Management, HR or 911
Fire or smoke: Call 911

POLICE AND FIRE Call 911

Nearest Hospital:

Eastgate Medical Center
11741 Valley View Street, Cypress, CA 90630
(714) 897-1071

County Environmental Health Office (non-emergencies) (714) 667-3600

Garden Grove Police (non-emergencies)	(714) 741-5704
State of Emergency Services	(800) 852-7550

NOTE: This list is confidential and may only be used for emergency response purposes, do not copy.

<u>Emergency Coordinators:</u>	<u>Extension</u>	<u>Outside Line</u>
Michael Schneider	2314	(909) 455-5978
Steve Singer	2319	(714) 624-2471
Martin Wilcox	2312	(949) 292-3420
Eulogio Martinez: Facilities	2211	(909) 717-6941
Kim Minix: Injury, reports	2309	(310) 946-7400

B. PERSONNEL ROLES

- The Supervisor of each area is responsible and has authority to take action in responding to any emergency.
- Emergency Coordinators will respond to emergency calls and control response actions. They will act as the company contact when called to assist in responding to the emergency.
- Emergency Coordinators will respond to spills, determine and carry out a course of action.
- The Director of Operations or equivalent retains the overall responsibility for emergency response operations.
- The Director of Operations and/or HR Manager are the only persons to respond as liaisons with outside news organizations regarding emergency incidents.
- Operations and HR departments are responsible for planning and scheduling safety training.
- Safety records retention is maintained by the H.R. department.

C. EMERGENCY RECOGNITION AND ACTION

The following emergencies may occur and require action:

- Accident, illness or injury: Any person that is observed to have fallen, become dizzy, been cut, burned, or otherwise harmed must be given first aid and additional medical treatment, as needed.
- Chemical spills: A chemical spill may be detected by observing an odor, puddle, stains, or a leaking container. In the event of a spill:
 - Warn others in the vicinity to distance themselves from the spill and/or evacuate the area.
 - Notify the area supervisor and/or the maintenance department immediately.

- Fire or Smoke:
 - Warn others in the vicinity.
 - If necessary, dial "0" to contact the Receptionist. The Receptionist will call the fire department. If there is no response from the Receptionist and no Supervisor immediately available, dial "911" for assistance.
 - If you have been trained to use a fire extinguisher, and if it is safe to do so, operate it as needed.
 - Notify your supervisor or have someone else locate your supervisor.
 - A Maintenance Technician or the Maintenance Manager will operate the sprinkler control valve.
- Earthquake
 - Don't panic and don't run outdoors.
 - If you are indoors:
 - Seek shelter immediately under a desk/table, against an inside wall or in a doorway.
 - Stay under cover until the shaking stops.
 - Get at least 15 feet away from windows. Expect to hear noise from breaking glass and falling objects.
 - Don't be surprised if the electricity goes off, fire alarms sound or if the sprinklers are discharged.
 - Be alert for after shocks.
 - If you are outdoors:
 - Move to an open area.
 - Stay away from buildings, walls, utility poles and trees.
 - After the quake:
 - Remain in the same position for several minutes after quakes in case of aftershocks.
 - Follow instructions of Supervisor.
 - A Maintenance Technician performs the following activities in consultation with the Maintenance Manager and Emergency Coordinator:
 - Check for sprinkler system leaks at the risers, cross-mains, branch lines and sprinkler heads. Maintain as much fire protection in service as possible; shut the minimum number of valves necessary to control leaking or impaired piping.
 - Investigate for domestic water leaks and shut off all domestic water valves to control leaking of broken piping.
 - Address significant building and equipment damage.
 - Develop contingency plans for utility outages.
 - Conduct salvage operations.
- Power Outage. Be prepared to do any of the following if requested:

- Power off all machinery and office equipment.
- Turn off all light switches.
- Meet with your evacuation group in the pre-designated area.
- Remain at work until released.
- The Receptionist is to be contacted by dialing "0" to request a flood alert announcement over the public address system.
- When appropriate, a Maintenance Technician will coordinate the placement and distribution of sand bags, absorbents, and any other containment materials.
- A Maintenance Technician will survey the facility to ensure that all equipment is powered down and to lock and tag out electrical main and/or distribution panels as needed.
- Maintenance staff will work on facility cleanup under the supervision of their management and the Emergency Coordinator.
- Flood:
 - Move equipment to higher ground if it is safe and possible to do so.
 - Advise the Facilities Manager, or designee, of the source of the flood if known.
 - The Facilities Manager, or designee, coordinates the filling and/or placement of sandbags and absorbent materials to contain water.
 - Power off all machinery and office equipment.
 - Turn off all light switches.
 - Remain at work until released.
 - Meet with your supervisor's team in a pre-designated area.
- Safety Threat:

CONDITION RED

The Receptionist will announce: "ATTENTION! ATTENTION! Under Condition Red": This means an intruder is in the building or a threat to safety exists within the building.

- Lock doors. Do not allow anyone other than Peace Officers or other Emergency Responders in the building
- Keep employees away from doors
- Maintain a calm environment
- If a gunshot or explosion is heard, get everyone on the floor
- Remain in the building until notified otherwise

CONDITION YELLOW

Under Condition Yellow: the threat is still present, but is external to the building.

- Leaving the building is still a significant risk and containment will continue.
- You will be notified by intercom when Condition Yellow is in effect
- Instructions will be given as to any changes in containment expectations
- Do not dismiss anyone from your department or from the building until instructed to do so, even if the day is over

CONDITION GREEN

When the risk has been resolved we will move to Condition Green. At this time one of two things will be done.

- D. If it has been a very high risk, high anxiety event, or of significant duration, we will call for dismissal and will give appropriate instructions.
- E. If the risk has been minimized in a short time frame you will be given instructions to resume the day's schedule from this point in time.

D. EVACUATION

When employee safety is threatened, the area supervisor or a member of the management team, or the responding public safety officer may order an evacuation or relocation.

- Evacuation plan and maps
 - The building has evacuation route maps posted in corridors or other locations where they may be easily seen. The maps indicate the outside assembly point.
- Notification to evacuate
 - Local area: Verbal notice to "Move to _____". Or "Leave the building".
 - Building evacuation: Notify the Operator by dialing "0". Ask the Operator to announce the evacuation over the paging system or by calling departments.
 - The Operator, upon receipt of a request to evacuate the building, will make the following announcement twice:
"Due to emergency reasons, all persons are requested to leave the building. Walk, do not run. Leave the building now and go immediately to your assigned meeting place."
- Procedure for evacuation
 - When an evacuation notice is given, all personnel must leave the building through the nearest passable exit immediately.
 - All persons evacuating will meet outside the building in the designated evacuation assembly area as indicated on the evacuation maps posted in the plant.
 - Supervisors must account for employees and visitors from their area immediately after the evacuation. Notice of missing employees must be given to the Emergency Coordinator or Officer in charge.
 - Search and rescue will only be performed by company personnel if it is not hazardous to do so.

- No employee is allowed or authorized to leave the premises without the explicit permission of the company Emergency Coordinator or designee.
- Do not leave the assigned meeting area without the explicit permission of the Emergency Coordinator or designee.
- Safe distance and place of refuge
 - The designated assembly point will normally provide a safe place to wait until the emergency is over.
 - The Emergency Coordinator or Officer in charge, if necessary, may direct employees to another location.
- Site security and control
 - The Emergency Coordinator may direct employees to posts near the entry to the building or an area where there is an emergency condition. The location will be selected to assure that there is no danger to the posted employee.
 - The posted employee will warn other of the danger and provide other information as directed by the Emergency Coordinator or Officer in charge.

CHEMICAL SPILL RESPONSE

A. EMERGENCY ALERTING AND RESPONSE

- Emergency calls for assistance will be made through the Operator or as directed by the Emergency Coordinator or management.
- The Emergency Coordinator or management will gather any needed information about the emergency.
- The Emergency Coordinator will distribute this information as needed.
- Under the direction of the Emergency Coordinator or Management calls for outside assistance, such as police, fire, paramedics, are made. The caller will dial 911 and provide directions and other assistance to the outside responders. Others should only call 911 if no one else is available.

B. RESPONSE ACTION BY OK INTERNATIONAL PERSONNEL

- OK International does not provide an Emergency Response Team capable of responding to a spill of unknown materials and completing a clean up.
- Hazardous substance releases in production and maintenance areas will be absorbed, neutralized, or otherwise controlled by Maintenance employees under the direction of the Emergency Coordinator.
 - Contract or City Response Crews may be used for the cleanup.

- Response to a spill of unknown hazardous materials (such as from a truck making a delivery to our facility) will be as follows:
 - a. Notify the Emergency Coordinator.
 - b. The Emergency Coordinator will notify the Fire Department, 9-911.

C. PERSONAL PROTECTIVE EQUIPMENT

Personnel responding to spills must recognize that some additional hazards may be present, beyond the hazards of normal operations. This could include exposure to fumes outside an exhausted workstation, skin contact with the hazardous material, or absorption of the material by clothing. The following procedure must be followed:

- The characteristics of the particular hazardous substance will dictate what personal protective equipment is to be worn. It may be determined that it is not safe to participate in a clean up if adequate protection is not available.
 - What are the routes of entry? Consider inhalation and skin contact hazard.
 - What equipment is available to resist the substance and provide protection?
 - Is the protective equipment adequate to provide protection?
 - Is the person familiar with the hazardous properties of the material and trained in the use of the protective equipment?
- Personal protective equipment is described in the Material Safety Data Sheet for the particular hazardous material.

D. PROCEDURE FOR REPORTING INCIDENTS TO LOCAL AND STATE AGENCIES

- If there should be a major spill that requires evacuation of the building or a spill that gets into the soil or the sewer, the City of Garden Grove must be notified immediately.
- When a spill must be reported, as defined above, the Emergency Coordinator will call the local emergency number, 9-911, and will call the State Office of Emergency Services at (800) 852-7550 to report the spill.
- The call and the information transmitted will be recorded.
- Any incident which requires implementing this contingency plan for spills of hazardous materials shall be reported in writing to the California Department of Health Service at P.O. Box 997413. Sacramento, CA. 95899-7413 within 15 days.

April 23, 2008

Steve Singer
Operations Manager
OK International, Inc.
12151 Monarch Street
Garden Grove, CA 92841

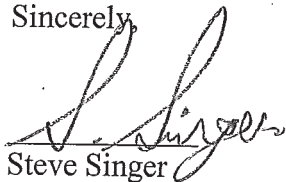
Robert Macias
Hazardous Material Coordinator
Garden Grove Fire Department
11301 Acacia Parkway
Garden Grove, Ca 92842

This correspondence is in response to your inquiry regarding the amounts of compressed gasses on site at OK International. The following information is being provided in addition to the documents sent on April 2, 2008.

- Form 3: Propane Gas – Maximum Quantity on Site is 52 cubic feet.
- MSDS: Propane Gas
- Form 3: Oxygen Gas – Maximum Quantity on Site is 167 cubic feet.
- MSDS: Oxygen Gas
- Form 3: Acetylene Gas – Maximum Quantity on Site is 188 cubic feet.
- MSDS: Acetylene Gas

You may contact me directly by phone at (714) 230-2319 with any questions.

Sincerely,



Steve Singer

FILE NO. 1986

April 2, 2008

Steve Singer
Operations Manager
OK International, Inc.
12151 Monarch Street
Garden Grove, CA 92841

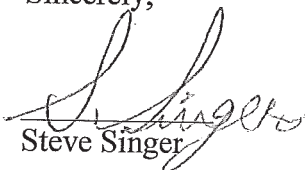
Hazardous Material Coordinator
Garden Grove Fire Department
11301 Acacia Parkway
Garden Grove, Ca 92840

Listed below are the documents requested on March 25, 2008 and furnished herein.

- Form 1: Hazardous Materials Business Information Form
- OK International Site Map 3/31/2008 to satisfy the requirements of Form 2
- No Chemical Inventory Forms or MSDS sheets are included since there are no qualifying chemicals at this site.
- OK International, Inc. Emergency Response Plan April, 2008
- CUPA Business Activities Form

You may contact me directly by phone at (714) 230-2319 with any questions.

Sincerely,


Steve Singer



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: 12151 MONARCH ST
 Occupant or DBA: OK INTERNATIONAL INC
 Owner/Manager: Martin A. Wilcox

Date: 3/25/08
 File No: 1986
714 230 2214
 Phone: 714 799 9910

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: Martin A. Wilcox Re-inspection Date: 4/8/08

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

Fire Dept. Inspector: R. MACIAS ID #: _____

Condition Upon Re-inspection: _____ Date: _____



**FIRE SAFETY SURVEY
GARDEN GROVE FIRE DEPARTMENT**

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

File # 1986
Fire District 2314
Inspector FPB Shift N
Next Insp 4 / 2008

Occupant or DBA O K INTERNATIONAL INC. Business Phone 714 799-9910
 Address 12151 MONARCH St Suite _____ Zip 92841
 Property Owner LLC PROPERTY MANAGEMENT (PARKIE DUBAR) Phone (562) 577-9488
 Emergency Contact STEVE SINGER Phone 714 624-2471
 Group S1 Load _____ Sprinklers F/P/N P 5 yr. Cert. 6/20/07 ~~12/00/2002~~ Haz Mat

Fire Permits

811031 HIGH-PILED COMBUSTIBLE STOCK, 801031 HAZARDOUS MATERIALS - use, handling or storage,
HOT WORKS (SMALL QUANTITY) *LEFT MESSAGE w/ ALLEN @ 1300 ABOUT STEELER ON RISER*

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

SIGNS

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

EXITS

- Provide approved panic hardware (CFC 1008.1.9)
- Remove locks, chains, bolts or bars from exit door (CFC 1008.1.8)
- Remove exit door/hardware (CFC 1008.1.8.5)
Location _____
- Remove exit obstruction (CFC 1028.3)
- Provide illuminated exit sign(s) (CFC 1011.2)
- Provide and maintain approved emergency lighting (CFC 1006.1)

ACCESS

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

FIRE PROTECTION EQUIP. AND SYS.

- Provide ___ extinguishers ___2A10BC ___40BC ___K (CFC 906.1)
- Service and tag extinguisher(s) (CFC 901.6)
- Hang extinguisher(s) 3.5'-5' from floor (Title 19, Sec.567.6)
- Clean filters, ducts, hood above cooking surface (CFC 904.11.6.4)
- Service auto-extinguishing system semi-annually (CFC 904.11.6.3)
- 5 yr certification on sprinkler/standpipe system (Title 19, Sect. 904)

ADDITIONAL VIOLATIONS AND/OR NOTES

LIGHT ON EXIT HALLWAY OUT (EMERGENCY LIGHTING) ALSO IN PLANNING ROOM
VERBAL WARNING ON BACKS (NO WOOD) PARTS OF METAL GRID
3 (45GAL) PROPANE TANKS BY LOADING DOCK (VERBAL) MAINTENANCE WILL REMOVE
NORTH WEST CORNER PROVIDE EXIT SIGN

ASSEMBLY OCCUPANCIES

- Post maximum occupancy lo
- Remove combustibile decora
- Remove storage under stairv

ELECTRICAL SAFETY PR

- Discontinue use of extension
- Keep 30" clear for access in (CFC 605.3)
- Provide/replace electrical ___c (CFC 605.1)
Location _____

HAZ-MAT SAFETY PRE-C

- Complete Hazardous Materia 714-741-5636 (CFC 2701.5.1)
- Provide approved cabinet if r liquids (CFC 3404.3.4.3)
- Provide approved safety cont liquids (CFC 3404.3.1)

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 105.6)

NO VIOLATIONS



Eulogio Martinez
Maintenance/Facilities Technician

12151 Monarch Street
Garden Grove, CA 92841
Main: +1-714-799-9910
Fax: +1-714-799-9533
emartinez@okinternational.com
www.okinternational.com

Business representative signature J. Nelson Date 2/27/08
 Inspector ID # Cory NELSON Date 2/27/08
 Cleared ___/___/___ Mailback card due ___/___/___ Re-inspection date 3/12/08 Final Notice ___/___/___



HAZARDOUS MATERIALS INVENTORY FORM

FORM 3

ADD DELETE REVISED 1 Page of 2

FACILITY ID#	3 0 0 3 5	38	BUSINESS NAME	OK INTERNATIONAL	3
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I. FACILITY INFORMATION

CHEMICAL LOCATION	12151 MONARCH ST. GARDEN GROVE 92841		LOADING DOCK WAREHOUSE AREA	4
CONFIDENTIAL LOCATION EPCRA	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5	MAP #	6
			GRID #	7

II. CHEMICAL INFORMATION

CHEMICAL NAME	PROPANE	WASTE	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6	TRADE SECRET	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	11	
COMMON NAME	DIMETHYLMETHANE, FREON 290, LPG, R290		9		An EHS Chemical	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	12	
CAS #	74-98-6	10		FIRE CODE HAZARD CLASSES (supplied by GGFD)	13			
TYPE (Check one item only)	<input checked="" type="checkbox"/> a. PURE	<input type="checkbox"/> b. MIXTURE	<input type="checkbox"/> c. WASTE	14	RADIOACTIVE	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	15	
PHYSICAL STATE (Check one item only)	<input type="checkbox"/> a. SOLID	<input type="checkbox"/> b. LIQUID	<input checked="" type="checkbox"/> c. GAS	17	FED HAZARD CATEGORIES	<input checked="" type="checkbox"/> a. FIRE <input type="checkbox"/> b. REACTIVE <input checked="" type="checkbox"/> c. PRESSURE RELEASE <input checked="" type="checkbox"/> d. ACUTE HEALTH <input checked="" type="checkbox"/> e. CHRONIC HEALTH	18	
AVERAGE DAILY AMOUNT	1 CU.FT.	19	MAXIMUM DAILY AMOUNT	3 CU.FT.	20	ANNUAL WASTE AMOUNT	21	
UNITS	<input type="checkbox"/> a. GALLONS <input checked="" type="checkbox"/> b. CUBIC FEET <input type="checkbox"/> c. POUNDS <input type="checkbox"/> d. TONS	23	DAYS ON SITE	90	24	LARGEST CONTAINER	13 CU. FT.	25
STORAGE CONTAINER (Check all that apply)	<input type="checkbox"/> a. ABOVEGROUND TANK <input type="checkbox"/> b. UNDERGROUND TANK <input type="checkbox"/> c. TANK INSIDE BLDG <input type="checkbox"/> d. STEEL DRUM	<input type="checkbox"/> e. PLASTIC DRUM <input type="checkbox"/> f. NONMETALLIC DRUM <input checked="" type="checkbox"/> g. METAL CONTAINER <input type="checkbox"/> h. CARBOY	<input type="checkbox"/> i. VAT <input type="checkbox"/> j. FIBER DRUM <input type="checkbox"/> k. BAG(S) <input type="checkbox"/> l. BOX(S)	<input type="checkbox"/> m. CYLINDER <input type="checkbox"/> n. GLASS CONTAINER <input type="checkbox"/> o. PLASTIC CONTAINER <input checked="" type="checkbox"/> p. IN MACH OR EQUIP	<input type="checkbox"/> q. TANK WAGON <input type="checkbox"/> r. RAIL CAR <input type="checkbox"/> s. TOTE BIN <input type="checkbox"/> t. OTHER	26		
STORAGE PRESSURE	<input checked="" type="checkbox"/> a. AMBIENT <input type="checkbox"/> b. ABOVE AMBIENT <input type="checkbox"/> c. BELOW AMBIENT	27						
STORAGE TEMPERATURE	<input checked="" type="checkbox"/> a. AMBIENT <input type="checkbox"/> b. ABOVE AMBIENT <input type="checkbox"/> c. BELOW AMBIENT <input type="checkbox"/> d. CRYOGENIC	28						

%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	CAS #
29		<input type="checkbox"/> Yes <input type="checkbox"/> No	30
29		<input type="checkbox"/> Yes <input type="checkbox"/> No	30
29		<input type="checkbox"/> Yes <input type="checkbox"/> No	30
29		<input type="checkbox"/> Yes <input type="checkbox"/> No	30
29		<input type="checkbox"/> Yes <input type="checkbox"/> No	30

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

PLACARDING INFORMATION

UNDOT #	UN1978	33
Refer to shipping papers or MSDS		
DOT HAZARD CLASS	2.1	34
Refer to shipping papers or MSDS		
EPCRA	<input type="checkbox"/> YES <input type="checkbox"/> NO	35
X		36
If EPCRA, Please Sign Here		

NFPA 704 HAZARD DIAMOND

HEALTH (BLUE) 1

FIRE (RED) 2

SPECIAL HAZARD 1

REACTIVE (YELLOW) 0

WHITE OX/WL 37

MAKE AS MANY COPIES OF CHEMICAL INVENTORY FORM AS NEEDED

Material Safety Data Sheet

Airgas

Propane

Section 1. Chemical product and company identification

Product name : Propane
Supplier : AIRGAS INC., on behalf of its subsidiaries
259 North Radnor-Chester Road
Suite 100
Radnor, PA 19087-5283
1-610-687-5253
Product use : Synthetic/Analytical chemistry.
Synonym : n-Propane; Dimethylmethane; Freon 290; Liquefied petroleum gas; Lpg; Propyl hydride; R 290; C3H8; UN 1075; UN 1978; A-108; Hydrocarbon propellant
MSDS # : 001045
Date of Preparation/Revision : 3/28/2008.
In case of emergency : 1-866-734-3438

Section 2. Hazards identification

Physical state : Gas. [COLORLESS LIQUEFIED COMPRESSED GAS; ODORLESS BUT MAY HAVE SKUNK ODOR ADDED.]

Emergency overview : WARNING!
FLAMMABLE GAS.
MAY CAUSE FLASH FIRE.
MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA.
CONTENTS UNDER PRESSURE.
Keep away from heat, sparks and flame. Do not puncture or incinerate container. May cause target organ damage, based on animal data. Use only with adequate ventilation. Keep container closed.
Contact with rapidly expanding gases can cause frostbite.

Target organs : May cause damage to the following organs: the nervous system.

Routes of entry : Inhalation

Potential acute health effects

Eyes : Contact with rapidly expanding gas may cause burns or frostbite.

Skin : Contact with rapidly expanding gas may cause burns or frostbite.

Inhalation : Acts as a simple asphyxiant.

Ingestion : Ingestion is not a normal route of exposure for gases

Potential chronic health effects : **CARCINOGENIC EFFECTS:** Not available.
MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available.

Medical conditions aggravated by over-exposure : Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

See toxicological information (section 11)

Section 3. Composition, Information on Ingredients

<u>Name</u>	<u>CAS number</u>	<u>% Volume</u>	<u>Exposure limits</u>
Propane	74-98-6	100	ACGIH TLV (United States, 1/2007). TWA: 1000 ppm 8 hour(s). NIOSH REL (United States, 12/2001). TWA: 1800 mg/m ³ 10 hour(s). OSHA PEL (United States, 11/2006). TWA: 1800 mg/m ³ 8 hour(s).

Section 4. First aid measures

No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

- Eye contact** : Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.
- Skin contact** : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. To avoid the risk of static discharges and gas ignition, soak contaminated clothing thoroughly with water before removing it. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.
- Frostbite** : Try to warm up the frozen tissues and seek medical attention.
- Inhalation** : Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.
- Ingestion** : As this product is a gas, refer to the inhalation section.

Section 5. Fire fighting measures

- Flammability of the product** : Flammable.
- Auto-ignition temperature** : 449.85°C (841.7°F)
- Flammable limits** : Lower: 2.1% Upper: 9.5%
- Products of combustion** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
- Fire hazards in the presence of various substances** : Extremely flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and oxidizing materials.
- Fire-fighting media and instructions** : In case of fire, use water spray (fog), foam or dry chemical.
- In case of fire, allow gas to burn if flow cannot be shut off immediately. Apply water from a safe distance to cool container and protect surrounding area. If involved in fire, shut off flow immediately if it can be done without risk.
- Contains gas under pressure. Flammable gas. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

- Personal precautions** : Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment (section 8). Shut off gas supply if this can be done safely. Isolate area until gas has dispersed.
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
- Methods for cleaning up** : Immediately contact emergency personnel. Stop leak if without risk. Use spark-proof tools and explosion-proof equipment. Note: see section 1 for emergency contact information and section 13 for waste disposal.

Section 7. Handling and storage

- Handling** : Use only with adequate ventilation. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. High pressure gas. Do not puncture or incinerate container. Use equipment rated for cylinder pressure. Close valve after each use and when empty. Keep container closed. Keep away from heat, sparks and flame. To avoid fire, eliminate ignition sources. Protect cylinders from physical damage; do not drag, roll, slide, or drop. Use a suitable hand truck for cylinder movement.
- Storage** : Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame). Segregate from oxidizing materials. Cylinders should be stored upright, with valve protection cap in place, and firmly secured to prevent falling or being knocked over. Cylinder temperatures should not exceed 52 °C (125 °F).

Section 8. Exposure controls/personal protection

- Engineering controls** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
- Personal protection**
- Eyes** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.
- Skin** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
- The applicable standards are (US) 29 CFR 1910.134 and (Canada) Z94.4-93
- Hands** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Personal protection in case of a large spill** : Self-contained breathing apparatus (SCBA) should be used to avoid inhalation of the product.

Product name

propane

ACGIH TLV (United States, 1/2007).

TWA: 1000 ppm 8 hour(s).

NIOSH REL (United States, 12/2001).

TWA: 1800 mg/m³ 10 hour(s).

OSHA PEL (United States, 11/2006).

TWA: 1800 mg/m³ 8 hour(s).

Consult local authorities for acceptable exposure limits.

Section 9. Physical and chemical properties

- Molecular weight** : 44.11 g/mole
- Molecular formula** : C₃H₈
- Boiling/condensation point** : -41.8°C (-43.2°F)
- Melting/freezing point** : -185.9°C (-302.6°F)
- Critical temperature** : 96.6°C (205.9°F)
- Vapor pressure** : 109 (psig)
- Vapor density** : 1.6 (Air = 1)
- Specific Volume (ft³/lb)** : 8.6206
- Gas Density (lb/ft³)** : 0.116

Propane

Section 10. Stability and reactivity

- Stability and reactivity : The product is stable.
- Incompatibility with various substances : Extremely reactive or incompatible with the following materials: oxidizing materials.
- Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- Hazardous polymerization : Under normal conditions of storage and use, hazardous polymerization will not occur.

Section 11. Toxicological information

Toxicity data

- IDLH : 2100 ppm
- Chronic effects on humans : May cause damage to the following organs: the nervous system.
- Other toxic effects on humans : No specific information is available in our database regarding the other toxic effects of this material to humans.

Specific effects

- Carcinogenic effects : No known significant effects or critical hazards.
- Mutagenic effects : No known significant effects or critical hazards.
- Reproduction toxicity : No known significant effects or critical hazards.

Section 12. Ecological information

Aquatic ecotoxicity


Not available.

- Products of degradation : Products of degradation: carbon oxides (CO, CO₂) and water.
- Environmental fate : Not available.
- Environmental hazards : No known significant effects or critical hazards.
- Toxicity to the environment : Not available.



Section 13. Disposal considerations

Product removed from the cylinder must be disposed of in accordance with appropriate Federal, State, local regulation. Return cylinders with residual product to Airgas, Inc. Do not dispose of locally.

Section 14. Transport information

Regulatory information	UN number	Proper shipping name	Class	Packing group	Label	Additional information
DOT Classification	UN1978	PROPANE SEE ALSO PETROLEUM GASES, LIQUEFIED	2.1	Not applicable (gas).		Limited quantity Yes. Packaging instruction Passenger aircraft Quantity limitation: Forbidden. Cargo aircraft Quantity limitation: 150 kg Special provisions 19, T50

Propane

TDG Classification	UN1978	PROPANE	2.1	Not applicable (gas).		<u>Explosive Limit and Limited Quantity Index</u> 0.125 <u>ERAP Index</u> 3000 <u>Passenger Carrying Ship Index</u> 65 <u>Passenger Carrying Road or Rail Index</u> Forbidden <u>Special provisions</u> 29, 42
Mexico Classification	UN1978	PROPANE SEE ALSO PETROLEUM GASES, LIQUEFIED	2.1	Not applicable (gas).		-

Section 15. Regulatory information

United States

U.S. Federal regulations

- : **United States inventory (TSCA 8b):** This material is listed or exempted.
- SARA 302/304/311/312 extremely hazardous substances:** No products were found.
- SARA 302/304 emergency planning and notification:** No products were found.
- SARA 302/304/311/312 hazardous chemicals:** propane
- SARA 311/312 MSDS distribution - chemical inventory - hazard identification:** propane: Fire hazard, Sudden release of pressure
- Clean Water Act (CWA) 307:** No products were found.
- Clean Water Act (CWA) 311:** No products were found.
- Clean Air Act (CAA) 112 accidental release prevention:** propane
- Clean Air Act (CAA) 112 regulated flammable substances:** propane
- Clean Air Act (CAA) 112 regulated toxic substances:** No products were found.

State regulations

- : **Connecticut Carcinogen Reporting:** This material is not listed.
- Connecticut Hazardous Material Survey:** This material is not listed.
- Florida substances:** This material is not listed.
- Illinois Chemical Safety Act:** This material is not listed.
- Illinois Toxic Substances Disclosure to Employee Act:** This material is not listed.
- Louisiana Reporting:** This material is not listed.
- Louisiana Spill:** This material is not listed.
- Massachusetts Spill:** This material is not listed.
- Massachusetts Substances:** This material is listed.
- Michigan Critical Material:** This material is not listed.
- Minnesota Hazardous Substances:** This material is not listed.
- New Jersey Hazardous Substances:** This material is listed.
- New Jersey Spill:** This material is not listed.
- New Jersey Toxic Catastrophe Prevention Act:** This material is not listed.

Propane

New York Acutely Hazardous Substances: This material is not listed.
New York Toxic Chemical Release Reporting: This material is not listed.
Pennsylvania RTK Hazardous Substances: This material is listed.
Rhode Island Hazardous Substances: This material is not listed.

Canada

WHMIS (Canada)

: Class A: Compressed gas.
Class B-1: Flammable gas.
CEPA Toxic substances: This material is not listed.
Canadian ARET: This material is not listed.
Canadian NPRI: This material is listed.
Alberta Designated Substances: This material is not listed.
Ontario Designated Substances: This material is not listed.
Quebec Designated Substances: This material is not listed.

Section 16. Other information

United States

Label requirements

: FLAMMABLE GAS.
MAY CAUSE FLASH FIRE.
MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA.
CONTENTS UNDER PRESSURE.

Canada

Label requirements

: Class A: Compressed gas.
Class B-1: Flammable gas.

Hazardous Material Information System (U.S.A.)

:

Health	*	1
Flammability		4
Physical hazards		0

National Fire Protection Association (U.S.A.)



Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.