

669 Metal Cleaner

SDS Number: 96

Revision Date: 12/23/2014

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1 PRODUCT AND COMPANY IDENTIFICATION

Manufacturer

ABC O Products of Sacramento
 P.O. Box 188469
 Sacramento, CA 95818

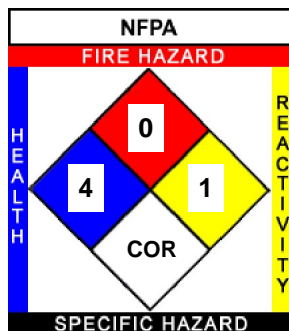
Contact: ABC O Products of Sacramento
Phone: +1-916-447-9931
Fax: +1-916-443-7466

Product Name: 669 Metal Cleaner
Revision Date: 12/23/2014
Version: 1
SDS Number: 96
Common Name: Acid-Surfactant Blend
CAS Number: MIXTURE
Product Code: ABC O J-O9R
Chemical Family: Strong Acid Cleaner
Chemical Formula: *** PROPRIETARY ***
Product Use: Acid Metal Cleaner
Emergency Phone: +1-800-424-9300 (CHEMTREC)

2 HAZARDS IDENTIFICATION

NFPA:
 HMIS III:

Health = 4, Fire = 0, Reactivity = 1
 H*4/F0/PH2



HMIS III	
HEALTH	4
FLAMMABILITY	0
PHYSICAL HAZARDS	2
PERSONAL PROTECTION D Face Shield and Eye Protection, Gloves, Apron	

PERSONAL PROTECTION INDEX			
A		G	
B		H	
C		I	
D		J	
E		K	
F		X	Consult your supervisor or S.O.P. for "SPECIAL" handling directions
A		n	
n		o	
o		p	
p		q	
q		r	
r		s	
t		u	
u		w	
w		y	
y		z	
t		z	Additional information

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GHS Signal Word:

DANGER

GHS Hazard Pictograms:



GHS Classifications:

- Health, Acute toxicity, 2 Oral
- Health, Acute toxicity, 1 Dermal
- Health, Skin corrosion/irritation, 1 A
- Health, Serious Eye Damage/Eye Irritation, 1
- Health, Acute toxicity, 3 Inhalation

GHS Phrases:

- H300 - Fatal if swallowed
- H310 - Fatal in contact with skin
- H314 - Causes severe skin burns and eye damage
- H318 - Causes serious eye damage
- H331 - Toxic if inhaled

GHS Precautionary Statements:

- P234 - Keep only in original container.
- P260 - Do not breathe dust/fume/gas/mist/vapors/spray.
- P262 - Do not get in eyes, on skin, or on clothing.
- P264 - Wash skin thoroughly after handling.
- P270 - Do not eat, drink or smoke when using this product.
- P271 - Use only outdoors or in a well-ventilated area.
- P273 - Avoid release to the environment.
- P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- P284 - Wear respiratory protection.
- P301+310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P303+361+353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- P320 - Specific treatment is urgent (see supplemental first aid instructions on this label).
- P361 - Remove/Take off immediately all contaminated clothing.
- P363 - Wash contaminated clothing before reuse.
- P403+233 - Store in a well ventilated place. Keep container tightly closed.
- P405 - Store locked up.
- P501 - Dispose of contents/container to an approved waste disposal plant.



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COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

Cas #	Percentage	Chemical Name
7664-39-3	<12%	Hydrofluoric acid
7664-93-9	<12%	Sulfuric acid
9016-45-9	0-5%	Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy-
61791-10-4	0-5%	Quaternary ammonium compounds, coco alkylbis(hydroxyethyl)methyl,
ethoxylated, chlorides		
N/A	>66%	Proprietary, non-hazardous, non-regulated

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4 FIRST AID MEASURES

Inhalation: If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical attention. Give oxygen or artificial respiration if needed. Lie victim down in the recovery position; cover to keep warm. Physicians should treat chronic exposure as chemical pneumonia. A 2.5% calcium gluconate solution in normal saline administered by nebulizer, or by IPPB with 100% oxygen may decrease pulmonary damage. Bronchodilators may also be administered. Monitor for hypocalcemia.

Skin Contact: Get immediate medical attention. Remove contaminated clothing immediately; wash before reuse. Promptly flush skin with water until all chemical is removed. Immediately apply Calcium Gluconate gel, 2.5%, and massage into the affected area using rubber gloves. Continue to massage while repeatedly applying gel until 15 minutes after pain is relieved. If fingers/finger nails are touched, even if there is not pain, dip them in a bath of 5% Calcium Gluconate for 15 to 20 minutes. More serious skin exposure may require subcutaneous calcium gluconate gel, except for digital areas (unless the physician is experienced in this technique) due to potential for tissue injury from increased pressure. Absorption can readily occur in subungual areas and should be considered during decontamination.

Eye Contact: Get immediate medical attention. Immediately flush eyes with large amounts of water for at least 15 minutes, lifting eyelids occasionally to facilitate irrigation. Rinse to eyes with a calcium gluconate, 1%, solution in physiological serum (10 ml of Calcium Gluconate 10% in 90 ml of physiological serum). In the case of difficulty of opening eyelids, administer an analgesic eye wash (oxybuprocaine).

Ingestion: Call a physician immediately. Take victim immediately to hospital. Prevention of absorption of the Fluoride ion can be obtained by giving a source of Calcium or Magnesium.

If victim is conscious:

If swallowed, rinse mouth with water (only if the person is conscious). Give to drink one of the following: 3-4 glasses of milk, chewable calcium carbonate tablets, Milk of Magnesia or a 1% aqueous Calcium Gluconate solution. Do NOT induce vomiting. Artificial respiration and/or oxygen may be necessary.

If victim is unconscious, but breathing:

Artificial respiration and/or oxygen may be necessary.

General advice:

Hydrofluoric (HF) acid burns require immediate and specialized first aid and medical treatment. Symptoms may be delayed up to 24 hours depending on the concentration of HF. After initial decontamination with water, subsequent damage can occur due to penetration/absorption of the Fluoride (F⁻) ion. Treatment should be directed toward binding the Fluoride ion as well as the effects of exposure. Show this Safety Data Sheet to the doctor in attendance. If possible, call ahead to hospital or paramedics and make them aware of the Hydrofluoric acid exposure risk to themselves, and so they may prepare the proper first aid treatments ahead of time. Conditions such as hypocalcemia, hypomagnesemia, cardiac arrhythmias and hyperkalemia should be monitored for, since they can occur after exposure. Renal dialysis may be necessary in some cases.

Most important symptoms and effects, both acute and delayed:

The most important known symptoms and effects are described in the labelling (see Section 2) and/or Section 11.

Indication of any immediate medical attention and special treatment needed:

No data available.

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5 FIRE FIGHTING MEASURES

Flammability:	No data available
Flash Point:	DNA
Flash Point Method:	DNA
Burning Rate:	No data available
Autoignition Temp:	No data available
LEL:	DNA
UEL:	DNA

Extinguishing Media:

Water Spray
Carbon Dioxide
Alcohol-Resistant Foam
Dry Chemical

Special Hazards Arising From the Substance or Mixture:

Carbon Oxides
Hydrogen Fluoride
Nitrogen Oxides (NO_x)
Sulfur Oxides

Advice for Firefighters:

Firefighters should wear full-face, positive-pressure respirators.

Further Information:

If incinerated, may release toxic fumes.
Gives off Hydrogen by reaction with metals. Hydrogen is flammable and potentially explosive. Use caution.
Use water spray to cool unopened containers.
Do NOT use high volume water jet to extinguish fire, as the force of the water jet may cause fire to spread.
See Section 7 for more information on safe handling.
See Section 8 for more information on personal protection equipment.
See Section 13 for disposal information.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment.
Keep from contacting skin or eyes.
Avoid breathing vapors, mist or gas.
Ensure adequate ventilation.
Evacuate personnel to safe areas.

Environmental precautions:

Prevent further release (leakage/spillage) if safe to do so.
Do not allow product to enter drains.
Do not allow to drain to environment.

Methods and materials for containments and cleaning up:

Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust).
Neutralizing agent like Sodium Bicarbonate may also be used to absorb/neutralize any spilled material.

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Place contaminated material into suitable, closed containers for disposal.
Dispose of contaminated material according to Section 13.
After spillage has been collected, area may be flushed with water or wet-brushed.
Ensure adequate ventilation.

Reference to other sections:

Comply with federal, state and local regulations on reporting spills.
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for information on proper disposal.

7 HANDLING AND STORAGE

Handling Precautions:

Avoid breathing vapors or mist.
Avoid contact with eyes, skin, or clothing.
Use approved, plastic containers only.
Do not use corrosive-sensitive materials for handling material.
Do not use Silicate containing materials for handling material (glass, cement, etc.).
Keep containers closed when not in use.
Do not expose containers to open flame, excessive heat, or direct sunlight.
Do not puncture or drop containers.
Handle with care and avoid spillage on the floor.
Keep material out of reach of children.
Keep material away from incompatible materials.
Wash thoroughly after handling.
Ensure adequate ventilation.

Storage Requirements:

Keep away from heat, sparks and flames.
Do not store in direct sunlight.
Store away from Silicate containing material (glass, cement, etc.), strong bases, amines, strong oxidizing agents, Halides, organic materials, Carbides, Fulminates, Nitrates, Pictrates, Cyanides, Chlorates, Alkali Halides, metal salts, metal oxides, Azides, Perchlorates, Nitromethane, Phosphorous, Phosphorous pentoxide, Cyclopentadiene, Cyclopentanone Oxime, Nitroaryl Amines, Hexalithium Disilicide, Phosphorous(III) Oxide, powdered metals, metals, Ammonia, Arsenic Trioxide, Vinyl Acetate, Acetic Anhydride, Carbonates, Sulfides and steam.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:

All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94). Use local exhaust at filling zones and where leakage and dust formation is probable. Use mechanical (general) ventilation for storage areas. Use appropriate ventilation as required to keep Exposure Limits in Air below TLV & PEL limits.

Personal Protective Equip:

Eye/face protection:

When using material use safety glasses, face shield, gloves, and apron according to HMIS PP, D. A vapor respirator according to HMIS PP, U is also highly recommended. All safety equipment should be tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Skin protection:

Handle with gloves made from Viton, Nitrile or Buna rubber. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid



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skin contact. Dispose of contaminated gloves according to applicable laws and laboratory practices.

Body Protection:

Chemically resistant gloves, face shield, apron and safety glasses are recommended. Type of protective equipment should be selected based on concentration amount and conditions of use of this material.

Respiratory protection:

Full-face vapor respirator is highly recommended as a backup to engineering controls when proper engineering controls are not in place to keep TLV and PEL limits below defined thresholds.

Control of environmental exposure:

Prevent leakage or spillage if safe to do so. Do not let material enter drains.

Components with workplace control parameters:

Component(s): Hydrogen Fluoride; Sulfuric acid

CAS No(s): 7664-39-3; 7664-93-9

USA OSHA Table Z-1 Limits for Air Contaminants (STEL): 6 ppm

USA OSHA Table Z-1 Limits for Air Contaminants (TWA): 1 mg/m³

USA OSHA Table Z2 (TWA): 2.5 mg/m³

USA ACGIH (TWA/TLV): 0.2 mg/m³

USA ACGIH (C/TLV): 2 ppm

USA NIOSH Recommended Exposure Limits (TWA, 15 minutes): 3 ppm, 2.5 mg/m³

USA NIOSH Recommended Exposure Limits (C, 15 minutes): 6 ppm, 5 mg/m³

Biological occupational exposure limits:

Component(s): Hydrogen Fluoride

CAS No(s): 7664-39-3

Parameters: Fluorides

Biological Specimen: Urine

USA ACGIH Biological Exposure Indices: Prior to shift (16 hours after exposure ceases), 3 mg/g

USA ACGIH Biological Exposure Indices: End of shift (As soon as possible after exposure ceases), 3 mg/g

Derived No Effect Level (DNEL):

Component(s): Sulfuric acid

CAS No(s): 7664-93-9

Inhalation - Workers (Acute local effects): 0.1 mg/m³

Inhalation - Consumers (Long-term local effects): 0.05 mg/m³

Predicted No Effect Concentration (PNEC):

Component(s): Sulfuric acid

CAS No(s): 7664-93-9

Marine Water: 0.00025 mg/l

Fresh Water: 0.0025 mg/l

Marine Sediment: 0.002 mg/kg

Fresh Water Sediment: 0.002 mg/kg

Onsite Sewage Treatment Plant: 8.8 mg/l

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9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear, Colorless, Fuming Liquid	Odor:	Acrid
Physical State:	Liquid	Molecular Formula:	MIXTURE
Odor Threshold:	Not determined	Solubility:	100%
Particle Size:	No data available	Softening Point:	Not determined
Spec Grav./Density:	1.081 g/ml (9.02 lbs/gal)	Percent Volatile:	10.34%
Viscosity:	Not determined	Heat Value:	Not determined
Sat. Vap. Conc.:	DNA	Freezing/Melting Pt.:	Not determined
Boiling Point:	> 93.33 °C (200 °F)	Flash Point:	DNA
Flammability:	(solid, gas): Not determined	Octanol:	Not determined
Partition Coefficient:	Not determined	Vapor Density:	(air = 1): Not determined
Vapor Pressure:	(mm Hg @ 20 °C, air = 1): > 1	VOC:	DNA
pH:	@ 1%: < 1.0	Bulk Density:	Not determined
Evap. Rate:	(Butyl Acetate = 1): > 1	Auto-Ignition Temp:	Not determined
Molecular weight:	MIXTURE	UFL/LFL:	DNA
Decomp Temp:	Not determined		

10 STABILITY AND REACTIVITY

Stability:	Product is stable under normal conditions.
Conditions to Avoid:	Incompatibilities, flames, ignition sources.
Materials to Avoid:	Silicate containing material (glass, cement, etc.), strong bases, amines, strong oxidizing agents, Halides, organic materials, Carbides, Fulminates, Nitrates, Picrates, Cyanides, Chlorates, Alkali Halides, metal salts, metal oxides, Azides, Perchlorates, Nitromethane, Phosphorous, Phosphorous pentoxide, Cyclopentadiene, Cyclopentanone Oxime, Nitroaryl Amines, Hexalithium Disilicide, Phosphorous(III) Oxide, powdered metals, metals, Ammonia, Arsenic Trioxide, Vinyl Acetate, Acetic Anhydride, Carbonates, Sulfides and steam.
Hazardous Decomposition:	Carbon Oxides, Hydrogen Fluoride, Nitrogen Oxides (NOx) and Sulfur Oxides.
Hazardous Polymerization:	Will not occur.

11 TOXICOLOGICAL INFORMATION

Component(s): Hydrofluoric Acid; Sulfuric Acid; Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy-; Quaternary ammonium compounds, coco alkylbis(hydroxyethyl)methyl, ethoxylated, chlorides

CAS No(s): 7664-39-3; 7664-93-9; 9016-45-9; 61791-10-4

Acute Toxicity:

LD50 Oral - Rat: > 40 mg/kg

LC50 Inhalation - Rat: 140 mg/m³ (Hydrofluoric Acid)

LC50 Inhalation - Rat: 510 mg/m³ (2 h) (Sulfuric Acid)

Skin Corrosion/Irritation: Rabbit skin - Extremely corrosive and destructive to tissue.

Serious Eye Damage/Eye Irritation: Rabbit eyes - Corrosive to eyes.

Respiratory or Skin Sensitation: No data available.

Germ Cell Mutagenicity: No data available.

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Carcinogenicity:

The International Agency for Research on Cancer (IARC) has determined that occupational exposure to strong-inorganic-acid mists containing Sulfuric Acid is carcinogenic to humans (Group 1).

IARC: 1 - Group 1: Strong-inorganic-acid mists containing Sulfuric Acid is classifiable as to its carcinogenicity to humans (Sulfuric Acid). 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Hydrofluoric Acid).

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive Toxicity: Foetotoxic effect, effect on fertility.

Specific Target Organ Toxicity - Single Exposure: No data available.

Specific Target Organ Toxicity - Repeated Exposure: No data available.

Aspiration Hazard: No data available.

Additional Information:

Component: Sulfuric Acid; RTECS: WS5600000

Component: Hydrofluoric Acid; RTECS: MW7875000

Component: Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy-; RTECS: AX0247000

12**ECOLOGICAL INFORMATION**

Component(s): Hydrofluoric Acid; Sulfuric Acid; Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy-; Quaternary ammonium compounds, coco alkylbis(hydroxyethyl)methyl, ethoxylated, chlorides

CAS No(s): 7664-39-3; 7664-93-9; 9016-45-9; 61791-10-4

Toxicity:*Toxicity to fish:*

LC50 - Salmo gairdneri: 2.7 - 4.7 mg/l (96 h, Fluorides)

LC50 - Gambusia affinis (Mosquito Fish): 42 mg/l (96 h)

LC50 - Lepomis macrochirus (Bluegill): 1.0 mg/l (96 h)

LC50 - Trout: 24 mg/l (96 h)

Mortality LOEC - Pimephales promelas (Fathead Minnow): 2.0 mg/l (144 h)

Mortality NOEC - Pimephales promelas (Fathead Minnow): 1.8 mg/l (144 h)

Toxicity to daphnia and other aquatic invertebrates (salt water):

EC50 - Crustaceans, Mysidopsis: 10.5 mg/l (96 h, Fluorides)

Toxicity to daphnia and other aquatic invertebrates (fresh water):

EC50 - Daphnia magna (Water Flea): 29 mg/l (48 h, Fluorides)

EC50 - Daphnia magna (Water Flea): 12.2 - 17.0 mg/l (48 h)

Mortality LOEC - Daphnia magna (Water Flea): 20.0 mg/l (144 h)

Mortality NOEC - Daphnia magna (Water Flea): 10.0 mg/l (144 h)

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Toxicity to algae:

EC50 - Algae, Scenedesmus sp.: 43 mg/l (96 h, Fluorides)

EC50 - Algae: 3.9 mg/l (96 h)

Growth inhibition LOEC - Pseudokirchneriella subcapitata: 16.0 mg/l (96 h)

Growth inhibition NOEC - Pseudokirchneriella subcapitata: 8.0 mg/l (96 h)

Persistence and Degradability:**Abiotic degradation:**

Air: Neutralization by natural alkalinity.

Water/Soil: Ionization/neutralization, complexation/precipitation or inorganic material.

Bioaccumulative potential:Result (log_{Pow}): Accumulation into vegetable leaves.

Result (Fluorides): Not applicable.

Mobility in Soil:

Result (Fluorides): Potential adsorption.

Results of PBT and vPvB assessment:

Not required/conducted.

Other Adverse Effects:

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life.

Harmful to aquatic life with long lasting effects.

13**DISPOSAL CONSIDERATIONS**

Product: Hazardous wastes shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution, release into the environment or damage to people and animals. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated Packaging: Dispose of as unused product.

14**TRANSPORT INFORMATION**

UN #: UN 2922, Class: 8 (6.1), Proper Shipping Name: Corrosive liquids, toxic, n.o.s. (containing Hydrofluoric Acid and Sulfuric Acid)

DOT (US)

UN Number: 2922

Class: 8 (6.1)

Packing Group: II

ERG #: 154

Proper Shipping Name: Corrosive liquids, toxic, n.o.s. (containing Hydrofluoric Acid and Sulfuric Acid)

Marine Pollutant: No

Poison Inhalation Hazard(s): No

IMDG

UN Number: 2922

Class: 8 (6.1)

Packing Group: II

EMS-No: F-A, S-B

Proper Shipping Name: Corrosive liquids, toxic, n.o.s. (containing Hydrofluoric Acid and Sulfuric Acid)

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Marine Pollutant: No

IATA

UN Number: 2922

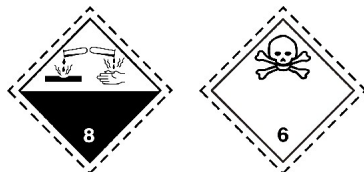
Class: 8 (6.1)

Packing Group: II

ERG #: 154

Proper Shipping Name: Corrosive liquids, toxic, n.o.s. (containing Hydrofluoric Acid and Sulfuric Acid)

Marine Pollutant: No



15

REGULATORY INFORMATION

COMPONENT / (CAS/PERC) / CODES

*Hydrofluoric acid (7664393 <12%) CERCLA, CSWHS, EHS302, EPCRAWPC, HAP, MASS, NJEHS, NJHS, OSHAPSM, OSHAWAC, PA, SARA311/312, SARA313, TOXICRCRA, TSCA, TXAIR, TXHWL

*Sulfuric acid (7664939 <12%) CERCLA, CSWHS, EHS302, EPCRAWPC, MASS, NJHS, OSHAWAC, PROP65, PA, SARA311/312, SARA313, TSCA, TXAIR

*Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy- (9016459 0-5%) MA, NJHS, PA, SARA311/312, TSCA

*Quaternary ammonium compounds, coco alkylbis(hydroxyethyl)methyl, ethoxylated, chlorides (61791104 0-5%) TSCA

REGULATORY KEY DESCRIPTIONS

CERCLA = Superfund clean up substance
 CSWHS = Clean water Act Hazardous substances
 EHS302 = Extremely Hazardous Substances (SARA 302 Title III)
 EPCRAWPC = EPCRA Water Priority Chemicals
 HAP = Hazardous Air Pollutants
 MASS = MA Massachusetts Hazardous Substances List
 NJEHS = NJ Extraordinarily Hazardous Substances
 NJHS = New Jersey Right to Know Hazardous Substances
 NRC = Nationally Recognized Carcinogens
 OSHAPSM = OSHA Chemicals Requiring process safety management
 OSHAWAC = OSHA workplace Air Contaminants
 PA = PA Right-To-Know List of Hazardous Substances
 PROP65 = CA Prop 65
 SARA311/312 = SARA 311/312 Toxic Chemicals
 SARA313 = SARA 313 Title III Toxic Chemicals
 TOXICRCRA = RCRA Toxic Hazardous Wastes (U-List)
 TSCA = Toxic Substances Control Act
 TXAIR = TX Air Contaminants with Health Effects Screening Level
 TXHWL = TX Hazardous Waste List

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16**OTHER INFORMATION****Disclaimer:**

The data in this Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material in any process. The information set forth herein is furnished free of charge and is based on technical data that ABCO Products of Sacramento believes to be reliable. It is intended for use by persons having technical skill and at their own discretion and risk. Since conditions of use are outside of ABCO Products of Sacramento's control, ABCO Products of Sacramento makes no warranties, expressed or implied, and assumes no liability in connection with any use of this information. Nothing herein is to be taken as a license to operate under, or a recommendation to infringe upon, any patents.

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