

**MATERIAL SAFETY DATA SHEET**

MSDS No. <b>L 8</b>
Date Issued <b>Nov. 15, 1985</b>
Date Revised <b>Jan 19, 2005</b>

Chemical/Trade Name (identify used on label) <b>Lead Acid Battery</b>	Chemical Family/Classification <b>Electric Storage Battery</b>	HMSIS Rating for Sulfuric Acid <b>3 0 2 X X= Acid</b>
Synonyms/Common Name <b>SLI Battery</b>	DOT, IATA and IMO Description <b>Battery, Wet, Filled with Acid, UN 2794, Class 8</b>	
Company Name <b>Johnson Controls Battery Group Inc.</b>	Address <b>P.O. Box 591 Milwaukee, WI 53201</b>	
Division or Department <b>Automotive Systems Group</b>		
CONTACT		TELEPHONE NUMBER
Questions Concerning MSDS <b>Industrial Hygiene, Safety &amp; Security - Automotive Systems, Battery</b>	Day: <b>SLI: (800) 333-2222 ext. 3138</b>	
Transportation Emergencies <b>CHEMTREC</b>	<b>24 Hours: (800) 424-9300</b>	

**II. Hazardous Ingredients**

Material	% by Wt.	CAS Number	Eight Hour Exposure Limits		
			OSHA PEL	ACGIH TLV	Other
Specific Chemical Identity <b>Lead</b>	34	7439-92-1	50 µg/m <sup>3</sup>	150 µg/m <sup>3</sup>	NIOSH REL
Common Name <b>Grid</b>					100 µg/m <sup>3</sup>
Specific Chemical Identity <b>Lead Dioxide</b>	31	1309-60-0	50 µg/m <sup>3</sup>	150 µg/m <sup>3</sup>	NIOSH REL
Common Name <b>Lead Oxide</b>					100 µg/m <sup>3</sup>
Specific Chemical Identity <b>Lead Sulfate</b>	<1	7446-14-2	50 µg/m <sup>3</sup>	150 µg/m <sup>3</sup>	NIOSH REL
Common Name <b>Anglesite</b>					100 µg/m <sup>3</sup>
Specific Chemical Identity <b>Sulfuric Acid (35%)</b>	34	7664-93-9	1mg/m <sup>3</sup>	1 mg/m <sup>3</sup> STEL	NIOSH REL
Common Name <b>Battery Electrolyte (Acid)</b>				0.2 mg/m <sup>3</sup> (respirable thoracic fraction)	1 mg/m <sup>3</sup>

**NOTE: The contents of this product are toxic chemicals that are subject to the reporting requirements of section 302 and 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40CFR 355 and 372).**

**III. Physical Data**

Material is (at normal temperatures) <input checked="" type="checkbox"/> Solid <input checked="" type="checkbox"/> Liquid	Appearance and Odor <b>Battery Electrolyte (acid) is a clear to cloudy liquid with slight acidic odor. Acid saturated lead oxide is a dark reddish-brown to gray solid with slight acidic odor.</b>
Boiling Point (at 760 mm Hg) <b>Lead 1755°C Batt. Electrolyte (Acid) 110-112°C</b>	Melting Point <b>Lead 327.4°C</b>
Specific Gravity (H <sub>2</sub> O =1) <b>Battery Electrolyte (Acid) 1.210 - 1.300</b>	Vapor Pressure <input checked="" type="checkbox"/> (mm Hg at 20°C) <input checked="" type="checkbox"/> (PSIG) <b>Battery Electrolyte (Acid) 11.7</b>
Vapor Density (Air =1) <b>Battery Electrolyte (Acid) 3.4</b>	Solubility is H <sub>2</sub> O <b>Lead and Lead Dioxide are not soluble. Battery Electrolyte (acid) is 100% soluble in water.</b>
% Volatile By Weight <b>Not Determined</b>	Evaporation rate (Butyl Acetate = 1) <b>Not Determined</b>

#### IV. Health Hazard Information

**NOTE: Under normal conditions of battery use, internal components will not present a health hazard. The following information is provided for battery electrolyte (acid) and lead for exposure that may occur during battery production or container breakage or under extreme heat conditions such as fire**

##### ROUTES AND METHODS OF ENTRY

###### Inhalation

Acid mist generated during battery formation may cause respiratory irritation. Spillage of acid from batteries in confined areas may also lead to exposure to sulfuric acid mist.

###### Skin Contact

Battery electrolyte (acid) can cause severe irritation, burns and ulceration.

###### Skin Absorption

Skin absorption is not a significant route of entry.

###### Eye Contact

Battery electrolyte (acid) can cause severe irritation, burns, and cornea damage upon contact.

###### Ingestion

Hands contaminated by contact with internal components of a battery can cause ingestion of lead/lead compounds. Hands should be washed prior to eating, drinking, or smoking.

##### SIGNS AND SYMPTOMS OF OVEREXPOSURE

###### Acute Effects

Acute effects of overexposure to lead compounds are GI (gastrointestinal) upset, loss of appetite, diarrhea, constipation with cramping, difficulty in sleeping, and fatigue. Exposure and/or contact with battery electrolyte (acid) may lead to acute irritation of the skin, corneal damage of the eyes, and irritation of the mucous membranes of the eyes and upper respiratory system, including lungs.

###### Chronic Effects

Lead and its compounds may cause chronic anemia, damage to the kidneys and nervous system. Lead may also cause reproductive system damage and can affect developing fetuses in pregnant women. Battery electrolyte (acid) may lead to scarring of the cornea, chronic bronchitis, as well as erosion of tooth enamel in mouth breathers in repeated exposures.

##### POTENTIAL TO CAUSE CANCER

The National Toxicological Program (NTP) and The International Agency for Research on Cancer (IARC) have classified "strong inorganic acid mist containing sulfuric acid" as a Category 1 carcinogen, a substance that is carcinogenic to humans. The ACGIH has classified "strong inorganic acid mist containing sulfuric acid" as an A2 carcinogen (suspected human carcinogen). These classifications do not apply to liquid forms of sulfuric acid or sulfuric acid solutions contained within a battery. Inorganic acid mist (sulfuric acid mist) is not generated under normal use of this product. Misuse of the product, such as overcharging, may result in the generation of sulfuric acid mist.

The NTP and the IARC have classified lead as an A3 carcinogen (animal carcinogen). While the agent is carcinogenic in experimental animals at relatively high doses, the agent is unlikely to cause cancer in humans except under uncommonly high levels of exposure. For further information, see the ACGIH's pamphlet, *1996 Threshold Limit Values and Biological Exposure Indices*.

##### EMERGENCY AND FIRST AID PROCEDURES

###### Inhalation

Remove from exposure and consult a physician if any of the acute effects listed above develop.

###### Skin

Wash thoroughly with soap and water. If acid is splashed on clothing, remove and discard. If acid is splashed in shoes, remove them immediately and discard. Acid cannot be removed from leather.

###### Eyes

Immediately rinse with cool running water for at least 15 minutes. Seek medical attention immediately after rinsing.

###### Ingestion

Lead/Lead compounds: Consult a physician.

Battery Electrolyte (Acid): Do not induce vomiting. Refer to a physician immediately.

##### MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

Inorganic lead and its compounds can aggravate chronic forms of kidney, liver, and neurological diseases. Contact of battery electrolyte (acid) with the skin may aggravate skin diseases such as eczema and contact dermatitis.

**V. Fire and Explosion Data**

Flash Point (test method) <b>Hydrogen - 259°C</b>	Autoignition Temperature <b>Hydrogen 580°C</b>	Flammable Limits in Air, % by Vol. <b>Hydrogen LEL - 4.1 UEL - 74.2</b>
Extinguishing Media <b>Dry chemical, foam, or CO<sub>2</sub></b>		
Special Fire Fighting Procedures <b>Use positive pressure, self-contained breathing apparatus.</b>		
Unusual Fire and Explosion Hazard <b>Hydrogen and oxygen gases are produced in the cells during normal battery operations, hydrogen is flammable and oxygen supports combustion. These gases enter the air through the vent caps. To avoid the chance of a fire or explosion, keep sparks and other sources of ignition away from the battery.</b>		

**VI. Reactivity Data**

Stability  <input type="checkbox"/> Unstable <input checked="" type="checkbox"/> Stable	Conditions to Avoid  <b>Sparks and other sources of ignition may ignite hydrogen gas.</b>
Incompatibility (materials to avoid) <b>Lead/lead compounds: Potassium, carbides, sulfides, peroxides, phosphorus, sulfur. Battery electrolyte (acid): Combustible materials, strong reducing agents, most metals, carbides, organic materials, chlorates, nitrates, picrates, and fulminates.</b>	
Hazardous Decomposition Products <b>Lead/Lead compounds: Oxides of lead and sulfur Battery electrolyte (acid): Hydrogen, sulfur dioxide, sulfur trioxide</b>	
Hazardous Polymerization  <input type="checkbox"/> May Occur <input checked="" type="checkbox"/> Will Not Occur	Conditions to Avoid <b>High temperature. Battery electrolyte (acid) will react with water to produce heat. Can react with oxidizing or reducing agents.</b>

**VII. Control Measures**

Engineering Controls <b>Store lead acid batteries with adequate ventilation. Room ventilation is required for batteries utilized for standby power generation. Never recharge batteries in an unventilated, enclosed space.</b>	
Work Practices <b>Make certain vent caps are on tightly. Place a minimum of two layers of corrugated cardboard between layers of batteries. When stacking in trailer, stack no more than three layers high. Use a battery carrier to lift a battery or place hands at opposite corners to avoid spilling acid through the vents. Avoid contact with internal components of the batteries.</b>	
<b>PERSONAL PROTECTIVE EQUIPMENT</b>	
Respiratory Protection <b>None required under normal handling conditions. During battery formation (high-rate charge condition), acid mist can be generated, which may cause respiratory irritation. If irritation occurs, wear a respirator suitable for protection against acid mist.</b>	
Eyes and Face <b>Chemical splash goggles are preferred. Also acceptable are "Visor-Gogs" or a chemical face shield worn over safety glasses with solid side shields.</b>	
Hands, Arms, and Body <b>Vinyl-coated, PVC, gauntlet-type gloves with rough finish.</b>	
Other Special Clothing and Equipment <b>Safety shoes worn with rubber or neoprene boots or steel-toed rubber or neoprene boots worn over socks. Place pants legs over boots to keep acid out of boots. All footwear must meet requirements of ANSI Z41.1-1991.</b>	

## VIII. Safe Handling Precautions

### Hygiene Practices

**Wash hands thoroughly before eating, drinking, or smoking after handling batteries.**

### Protective Measures to be Taken During Non-Routine Tasks, Including Equipment Maintenance

**Wear recommended eye protection. If clothing becomes saturated with acid, remove and wash affected area with water for 15 minutes. Discard saturated clothing.**

### SPILL OR LEAK PROCEDURES

#### Protective Measures to be Taken if Material is Released or Spilled

**Remove combustible materials and all sources of ignition. Contain spill by diking with soda ash (sodium carbonate) or quicklime (calcium oxide). Cover spill with either chemical. Mix well. Make certain the mixture is neutral, then collect residue and place in a drum or other suitable container. Dispose of as a hazardous waste.**

**Wear acid-resistant boots, chemical face shield, chemical splash goggles, and acid-resistant gloves.**

**DO NOT RELEASE UNNEUTRALIZED ACID!**

#### Waste Disposal Method

**Battery Electrolyte (Acid): Neutralize as above for a spill, collect residue, and place in a drum or suitable container. Dispose of as a hazardous waste.**

**DO NOT FLUSH LEAD-CONTAMINATED ACID INTO SEWER.**

**Batteries: Send to lead smelter for reclamation following applicable Federal, state, and local regulations.**



### OTHER HANDLING AND STORAGE PRECAUTIONS

**An eyewash fountain and safety shower should be located in or near the production or storage area(s) for lead/lead acid batteries. Such storage areas should be equipped with a containment facility which captures acid spills so that they may be neutralized, collected, and disposed of properly.**

## IX. Other Regulatory Information

**TSCA Registry:** Ingredients listed in the TSCA Registry are lead, lead oxide, lead sulfate and sulfuric acid.

**Proposition 65 Warning:** Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and reproductive harm. Batteries also contain other chemicals known to the State of California to cause cancer. Wash hands after handling.

**Disclaimer:** This information has been compiled from sources considered to be dependable and is, to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty (either express or implied) or guarantee is made to the accuracy, reliability or completeness of the information contained herein. This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. It is the user's responsibility to satisfy himself as to the suitability and completeness of this information for his own particular use. We do not accept liability for any loss or damage that may occur, whether direct, indirect, incidental or consequential, from use of this information.

**MATERIAL SAFETY DATA SHEET**  
(SIMILAR TO OSHA FORM 174)

N.A. = Not Applicable

<b>SECTION 1-MANUFACTURER/DISTRIBUTOR INFORMATION</b>			
<b>Product Name:</b> SAFE SOLV <b>Supplier's Name:</b> Maintenance Equipment & Chemicals <b>Supplier's Address:</b> 625 Simmons Lane, Johnstown Pa. 15909 <b>Phone:</b> (814) 322-1399 <b>Chemical Name:</b> Citrus oil detergent blend <b>Chemical Family:</b> Deodorant, degreaser and cleaner		<b>Emergency Phone #:</b> 1-800-424-9300 <b>Reference code:</b> MTEQ <b>Product #:</b> 092	
<b>SECTION 2-HAZARDOUS INGREDIENTS</b>			
CHEMICAL NAME	CAS NO.	%CONCENTRATE RANGE	HAZARD RATINGS (TLV/PEL)
None			
<b>SECTION 3-PHYSICAL DATA</b>		<b>SECTION 4-FIRE AND EXPLOSION DATA</b>	
<b>Boiling Point (F):</b> over 225 F <b>Vapor Pressure:</b> Not determined <b>Vapor Density:</b> NA <b>Solubility In Water:</b> 100% <b>Appearance / Odor:</b> Clear liquid, pleasant orange oil odor. <b>Specific Gravity:</b> 0.966 <b>% Volatile:</b> 77 <b>Evaporation Rate: (water=1)</b> 3 <b>Other:</b>		<b>Flash Point (F) / Method:</b> None—TCC <b>Flammable Limits:</b> NA <b>Extinguishing Media:</b> None required. <b>Special Fire Fighting Procedures:</b> None required. When mixed with water for use the material emulsifies and is noncombustible. <b>Unusual Fire &amp;Explosion Hazards:</b> None	
<b>SECTION 5-HEALTH HAZARD DATA</b>			
<b>Threshold Limit Value:</b> None established for vapors or skin contact <b>Effects of Overexposure:</b> None. Eye irritation from concentrate. Skin irritation from prolonged contact. Diarrhea from ingestion. <b>Emergency &amp; First Aid Procedures:</b> Wash from eyes with water until irritation stops. If ingested treat as a detergent concentrate. Wash from skin with water. Wash contaminated clothing before reuse. <b>Carcinogenicity:</b> NA			
<b>SECTION 6-REACTIVITY DATA</b>		<b>SECTION 7-SPILL OR LEAK PROCEDURES</b>	
<b>Stability:</b> Stable <b>Conditions to Avoid:</b> <b>Incompatibility:</b> None <b>Hazardous Decomposition Products:</b> None <b>Hazardous Polymerization:</b> Will not occur		<b>Steps to be taken if material is released or spilled:</b> Pick up excess with mop or wet-vac and wash residue to sewer. Nontoxic and biodegradable. Will not effect the operation of sewage treatment plants. <b>Waste disposal method:</b> Sewer, landfill or incinerate following local laws.	
<b>SECTION 8-SPECIAL PROTECTION INFORMATION</b>		<b>SECTION 9-SPECIAL PRECAUTIONS</b>	
<b>Respiratory Protection:</b> Not required <b>Ventilation:</b> No <b>Protective Gloves:</b> Yes, but not required <b>Eye Protection:</b> Yes, with concentrate <b>Other Protective Equipment:</b> Water source to wash from eyes and off skin.		<b>Precautions to be taken in handling and storage:</b> Store between 35 and 100 F in sealed containers and away from sources of heat and open flames. <b>Other Precautions:</b> Keep out of the reach of children.	

Date Prepared: 1-02-04

By: BK

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(SIMILAR TO OSHA FORM 174)

N.A. = Not Applicable

**SECTION 1-MANUFACTURER/DISTRIBUTOR INFORMATION**

<b>Product Name:</b> TRANSPORT CLEAN	<b>Emergency Phone #:</b> 1-800-424-9300
<b>Supplier's Name:</b> MEC Chemicals	<b>Reference code:</b> MTEQ
<b>Supplier's Address:</b> 625 Simmons Lane, Johnstown PA 15909	<b>Product #:</b> 119
<b>Phone:</b> (814) 322-1399	
<b>Chemical Name:</b> DETERGENT AND POLISH	
<b>Chemical Family:</b> Degreaser, cleaner, polish	

**SECTION 2-HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS NO.	%CONCENTRATE RANGE	OSHA PEL	ACGIH TLV
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NONE

**SECTION 3-PHYSICAL DATA**

**Boiling Point (F):** 212F  
**Vapor Pressure (mm Hg):** 20mm  
**Vapor Density:** NA  
**Solubility In Water:** 100%  
**Appearance / Odor:** blue green liquid, pleasant detergent odor.  
**Specific Gravity:** 1.110  
**% Volatile:** >75  
**Evaporation Rate:** (water=1) <1  
**Other:**

**SECTION 4-FIRE AND EXPLOSION DATA**

**Flash Point (F) / Method:** None, TCC  
**Flammable Limits:** LA      **LEL:**      **UEL:**  
**Extinguishing Media:** None required

**Special Fire Fighting Procedures:** None required  
**Unusual Fire &Explosion Hazards:** None

**SECTION 5-HEALTH HAZARD DATA**

**Threshold Limit Value:** None  
**Effects of Overexposure:** None from vapors. Concentrate will irritate the eyes. Prolonged contact irritates skin. Diarrhea from ingestion  
**Emergency & First Aid Procedures:** Wash from eyes with water until irritation stops. If irritation persists see a physician. If ingested give large quantities of water and see a physician. Wash from skin with water.  
**Carcinogenicity:** NA

**SECTION 6-REACTIVITY DATA**

**Stability:** Stable  
**Conditions to Avoid:**  
**Incompatibility:** None  
**Hazardous Decomposition Products:** None  
**Hazardous Polymerization:** Will not occur

**SECTION 7-SPILL OR LEAK PROCEDURES**

**Steps to be taken if material is released or spilled:** Pick up excess with mop or wet-vac and wash residue to sewer. Nontoxic and biodegradable.  
**Waste disposal method:** Sewer, landfill or incinerate following local laws.

**SECTION 8-SPECIAL PROTECTION INFORMATION**

**Respiratory Protection:** Not required  
**Ventilation:** NO  
**Protective Gloves:** Not required  
**Eye Protection:** yes, with concentrate  
**Other Protective Equipment:** Keep out of the reach of children

**SECTION 9-SPECIAL PRECAUTIONS**

**Precautions to be taken in handling and storage:** Store between 35 and 100F in a closed container.  
**Other Precautions:** Keep out of the reach of children

Date Prepared 3/3/04

By: BK

# MATERIAL SAFETY DATA SHEET

GUMOUT® PROFESSIONAL ENGINE CLEANER AND DEGREASER

## 1. PRODUCT AND COMPANY IDENTIFICATION

MSDS Number: 15957

Version Date: 09/06/02

Product Name: GUMOUT® PROFESSIONAL ENGINE CLEANER AND DEGREASER

Product Use: Engine cleaner

Synonyms: #7241

### Company Information

SOPUS Products  
P.O. Box 4427  
Houston, TX 77210-4427  
USA

### Phone Numbers

Medical Emergency: 1-800-546-6040  
Transportation Emergency (USA): 1-800-424-9300  
Transportation Emergency (International):  
1-703-527-3887(Call Collect)  
MSDS Assistance: 1-800-546-6227  
Fax On Demand: 1-800-546-6227  
Technical Assistance: 1-800-458-4998  
Customer Service: 1-800-468-8397  
Fax Number: 713-217-3181  
Internet Address: www.MSDS.PZLQS.com

## 2. COMPONENT INFORMATION

Component	CAS No.	Weight Percent Range	Hazardous in Blend
OXYGENATED SOLVENT	TRADESECRET	5 - 15	Yes
FATTY ACID	TRADESECRET	5 - 15	No
WATER	7732-18-5	15 - 25	No
ETHOXYLATED ALCOHOL	TRADESECRET	5 - 10	Yes
CAUSTIC SOLUTION	TRADESECRET	5 - 10	Yes
HYDROCARBON PROPELLANT	TRADESECRET	10 - 20	Yes
HYDROTREATED LIGHT DISTILLATE	64742-47-8	30 - 40	Yes

This product meets the definition of a hazardous chemical when evaluated according to the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

### Hazards:

Flammable/Combustible X Acute Toxin X Chronic Toxin -- Carcinogen --  
Pressure X Reactive -- Exposure Limit X Target Organ -- Other --

Other: No information available

## 3. HAZARDS IDENTIFICATION

### Emergency and Hazards Overview

DANGER: HARMFUL OR FATAL IF SWALLOWED. VAPOR HARMFUL. CONTENTS UNDER PRESSURE.

NFPA Ratings: Health 1 Flammability 2 Reactivity 0

Primary Route of Exposure: Skin X Inhalation X Eye --

### Health Effect Information

**Eye Contact:** Avoid eye contact. This product has not been tested for acute eye hazards. May be irritating to the eyes upon direct contact. Exposure to mists and vapors may be irritating to the eyes. These effects are transient, and complete recovery follows.

**Skin Contact:** Single, short exposures, as expected with consumer use of this product, are expected to be practically non-irritating to the skin. Avoid prolonged and repeated skin contact. Prolonged or repeated skin contact may result in dryness, chapping, and reddening.

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**DEGREASER**

**Inhalation:** This product is not expected to pose an inhalation hazard under conditions of foreseeable use. This product may be considered a low health hazard unless inhaled in very high concentrations. Exposure to vapors generated under unusual conditions may be mildly irritating to the nose and throat. Acute and chronic overexposures may be irritating to the respiratory tract.

**Ingestion:** Not applicable by this route of exposure. Ingestion is unlikely for aerosol products.

**Medical Conditions Aggravated by Exposure:** Drying and chapping may make the skin more susceptible to other irritants, sensitizers and disease.

**Other:** No information available

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#### 4. FIRST AID INFORMATION

**Eye Contact:** Immediately flush eyes with large amounts of water and continue flushing for 15 minutes or until irritation subsides. If irritation persists, seek medical attention.

**Skin Contact:** Wash contaminated area thoroughly with soap and water. If redness or irritation occurs and persists, seek medical attention. Use a hand or skin lotion to prevent dryness.

**Inhalation:** If victim exhibits signs of vapor intoxication remove to fresh air. If discomfort persists seek medical attention.

**Ingestion:** Ingestion is unlikely for aerosol products. Accidental spraying into the mouth will not result in any harmful effects. No treatment is necessary under ordinary circumstances.

**Notes to Physician:** No information available

**Other:** No information available

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#### 5. FIRE AND EXPLOSION INFORMATION

##### Flammable Properties

**Flash Point (aerosol concentrate):** No data available

**Test Method:** No information available

**Flame Extension:** < 6"

**Test Method:** CPSC 1500.45

##### Flammable Limits in Air

**Upper Percent:** No data available

**Lower Percent:** No data available

**Autoignition Temperature:** No data available

**Test Method:** No information available

**NFPA Classification:** Level 3 Aerosol (NFPA 30B)

**Extinguishing Media:** Use water spray (fog), dry chemical, foam, or carbon dioxide.

##### Fire Fighting Measures

**Special Fire Fighting Procedures and Equipment:** Container may rupture if exposed to heat. Use water to keep fire exposed containers cool and to protect personnel during shutoff.

**Unusual Fire and Explosion Conditions:** Aerosol cans may rupture when heated. Pressurized container: Protect from sunlight and do not expose to temperatures exceeding 50 C. Do not pierce or burn even after container is empty.

**Hazardous Combustion By-Products:** Carbon monoxide, carbon dioxide, and other oxides may be generated as products of combustion.



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**Other:** No information available

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**6. ACCIDENTAL RELEASE MEASURES**

**Personnel Safeguards:** Remove all sources of ignition. Provide adequate ventilation to remove vapors and mists. Consult Health Effect Information in Section 3, Personal Protection Information in Section 8, Fire and Explosion Information in Section 5, and Stability and Reactivity Information in Section 10.

**Regulatory Notifications:** No notification required

**Containment and Clean up:** No special cleanup procedures are necessary. Flush area with water to dilute.

**Other:** No information available

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**7. HANDLING AND STORAGE INFORMATION**

**Handling:** Contents under pressure and can explode when exposed to heat or open flame. Caution!--Do not puncture or incinerate.

**Storage:** Do not store at temperatures greater than 120 F.

**Empty Container Warnings**

**Drums:** Not applicable

**Plastic:** Not applicable

**Other:** No information available.

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**8. EXPOSURE CONTROLS / PERSONAL PROTECTION INFORMATION****Exposure Limits and Guidelines**

Component	CAS No.	Exposure Limit
OXYGENATED SOLVENT	TRADESECRET	OSHA - PEL: TWA 100 ppm ACGIH - TLV: TWA 100 ppm ACGIH - TLV: STEL 150 ppm
CAUSTIC SOLUTION	TRADESECRET	OSHA - PEL: TWA 2 mg/m3 ACGIH - TLV: Ceiling 2 mg/m3
HYDROCARBON PROPELLANT	TRADESECRET	OSHA - PEL: TWA 1000 ppm

**Personal Protective Equipment**

**Eye/Face Protection:** Eye protection is not required under conditions of normal use. If material is handled such that it could be sprayed into eyes, wear plastic face shield or splash-proof safety goggles.

**Skin Protection:** Skin protection is not required under conditions of normal use. Launder soiled clothes.

**Respiratory Protection:** Respiratory protection is not required under conditions of normal use. If excessive levels of mists or vapors are generated while using this product, use an organic vapor respirator. See Section 3, Health Effect Information, Inhalation.

**Personal Hygiene:** Consumption of food and beverage should be avoided in work areas where this product is present. Always wash hands and face with soap and water before eating, drinking, or smoking.

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**Engineering Controls / Work Practices**

**Ventilation:** General room ventilation is normally sufficient to prevent buildup of hazardous concentrations. Providing adequate ventilation to keep exposure levels below the permissible exposure limits or flammability limits will prevent any physiological effects.

**Other:** No information available

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance:</b> Slightly yellow , clear	
<b>Odor:</b> Hydrocarbon	<b>Vapor Pressure:</b> No data available
<b>Physical state:</b> Aerosol	<b>Vapor Density (air=1):</b> No data available
<b>pH:</b> No data available	<b>Percent Volatile by Volume:</b> 49
<b>Boiling Point:</b> No data available	<b>Volatile Organic Content:</b> No data available
<b>Melting Point:</b> Not applicable	<b>Molecular Weight:</b> No data available
<b>Specific Gravity:</b> 0.91	<b>Average Carbon Number:</b> No data available
<b>Pour Point:</b> No data available	<b>Viscosity @ 100 F:</b> No data available
	<b>Viscosity @ 40 C:</b> No data available
<b>Solubility in Water:</b> Negligible in water	
<b>Octanol / Water Coefficient: Log K<sub>ow</sub> =</b> No data available	

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**10. STABILITY AND REACTIVITY INFORMATION**

**Chemical Stability:** Stable

**Conditions to Avoid:** Keep away from heat, sparks, open flames and other ignition sources.

**Incompatible Materials to Avoid:** May react with strong oxidizing agents.

**Other:** No information available

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**11. TOXICOLOGICAL INFORMATION**

**Primary Eye Irritation:** No information available

**Primary Skin Irritation:** No information available

**Acute Dermal Toxicity:** No information available

**Subacute Dermal Toxicity:** No information available

**Dermal Sensitization:** No information available

**Inhalation Toxicity:** No information available

**Inhalation Sensitization:** No information available

**Oral Toxicity:** No information available

**Mutagenicity:** No information available

**Carcinogenicity:** No information available

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**Reproductive and Developmental Toxicity:** No information available

**Teratogenicity:** No information available

**Immunotoxicity:** No information available

**Neurotoxicity:** No information available

**Other:** No information available

#### 12. ECOLOGICAL INFORMATION

**Aquatic Toxicity:** No information available

**Terrestrial Toxicity:** No information available

**Chemical Fate and Transport:** No information available

**Other:** No information available.

#### 13. DISPOSAL INFORMATION

**Regulatory Information:** Dispose of residual products and empty containers responsibly.

**Waste Disposal Methods:** Waste material may be landfilled or incinerated at an approved facility.

**Other:** No information available

#### 14. TRANSPORTATION INFORMATION

**U.S. Department of Transportation (DOT)**

Highway / Rail (Bulk): NOT APPLICABLE

Highway / Rail (Non-Bulk): CONSUMER COMMODITY, ORM-D

For US shipments, US DOT law requires the shipper to determine the proper shipping description of the material that is being shipped. The shipping information and description contained in this section may not be suitable for all shipments of this material, but may help the shipper determine the proper shipping description for a particular shipment.

**International Information**

Vessel: IMDG Regulated:   X   IMDG Not Regulated:   --  

Air: ICAO Regulated:   X   ICAO Not Regulated:   --  

**Other:** No information available

#### 15. Regulatory Information

**Regulatory Lists Searched:** The components listed in Section 2 of this MSDS were compared to substances that appear on the following regulatory lists. Each list is numerically identified. See Regulatory Search Results below.

**Health & Safety:** 10 - IARC carcinogen, 11 - NTP carcinogen, 12 - OSHA carcinogen, 15 - ACGIH TLV, 16 - OSHA PEL, 17 - NIOSH exposure limit, 20 - US DOT Appendix A, Hazardous substances, 22 - FDA 21 CFR Total food additives, 23 - NFPA 49 or 325

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**Environmental:** 30 - CAA 1990 Hazardous air pollutants, 31 - CAA Ozone depletors, 33 - CAA HON rule, 34 - CAA Toxic substance for accidental release prevention, 35 - CAA Volatile organic compounds (VOC's) in SOCM, 41 - CERCLA / SARA Section 302 extremely hazardous substances, 42 - CERCLA / SARA Section 313 emissions reporting, 43 - CWA Hazardous substances, 44 - CWA Priority pollutants, 45 - CWA Toxic pollutants, 46 - EPA Proposed test rule for hazardous air pollutants, 47 - RCRA Basis for listing - Appendix VII, 48 - RCRA waste, 49 - SDWA - (S)MCLs

**International:** 50 - Canada - WHMIS Classification of substance, 54 - Mexico - Drinking water - ecological criteria, 55 - Mexico - Wastewater discharges, 56 - US -TSCA Section (12)(b) - export notification

**State Lists:** 60 - CA - Proposition 65, 61 - FL - Substances, 62 - MI - Critical materials, 63 - MA - RTK, 64 - MA - Extraordinarily hazardous substances, 65 - MN - Hazardous substances, 66 - PA - RTK, 67 - NJ - RTK, 68 - NJ - Environmental hazardous substances, 69 - NJ - Special hazardous substances

**Inventories:** 80 - Canada - Domestic substances , 81 - European - EINECS, 82 - Japan - ENCS, 83 - Korea - Existing and evaluated chemical substances, 84 - US - TSCA , 85 - China Inventory

**Regulatory Search Results:**

HYDROTREATED LIGHT DISTILLATE: 80, 81, 83, 84, 85

WATER: 80, 81, 83, 84, 85

**U.S. TSCA Inventory:** All components of this material are on the US TSCA Inventory.

**SARA Section 313:** Consumer products are not regulated under SARA, Title III, Section 313.

**IARC:** No information available

**SARA 311 / 312 Categories**

**Acute:**  X  **Chronic:**  --  **Fire:**  X  **Pressure:**  X  **Reactive:**  --

**Not Regulated:**  --

**Canadian WHMIS Classification**

Class A - Compressed gas

Class B - Flammable and Combustible Material, Division 5, Flammable Aerosols

Class D - Poisonous and infectious material, Division 2B, Toxic Material

**European Union Classification**

**Hazard Symbols:**

No information available

**Risk Phrases:**

No information available

**Safety Phrases:**

No information available

**Other:** No information available

**16. OTHER INFORMATION**

**Health and Environmental Label Language**

Front Label:

DANGER: HARMFUL OR FATAL IF SWALLOWED. VAPOR HARMFUL. CONTENTS UNDER PRESSURE.

Read carefully other cautions on back.

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**DEGREASER**

Back Label:

**DANGER:** Contains petroleum distillates and hydrocarbon propellant. Prolonged and repeated skin contact may cause drying of skin.

**PRECAUTIONARY MEASURES:** Do not puncture or incinerate container. Do not expose to heat or store at temperatures above 120 F. Avoid breathing vapors and mists. Use only in well ventilated areas. Avoid skin and eye contact. Wash thoroughly after handling.

**FIRST AID:** If swallowed, do not induce vomiting. Call physician immediately. If inhaled, breathe fresh air. For skin or eye contact, wash thoroughly with water.

**MSDS Revisions**

**Previous Version Date:** 09/06/02

**Previous Version Information**

Section 14 - Transportation Information Revised.

**Other**

No information available

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