

Material Safety Data Sheet



Superior Solutions

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1-877-I-BUY-ZEP (428-9937)
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Section 1. Chemical Product and Company Identification

Product name ZEP DRY GRAPHITE
Product use Aerosol Lubricant
Product code 0164
Date of issue 03/20/09 **Supersedes** 10/07/04

Emergency Telephone Numbers

For MSDS Information:
Compliance Services 1-877-I-BUY-ZEP (428-9937)

For Medical Emergency
(877) 541-2016 Toll Free - All Calls Recorded

For Transportation Emergency
CHEMTREC: (800) 424-9300 - All Calls Recorded
In the District of Columbia (202) 483-7616

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Section 2. Hazards Identification

Emergency overview

*Hazard Determination System (HDS): Health, Flammability, Reactivity

WARNING

CAUSES EYE AND SKIN IRRITATION. VAPOR HARMFUL.
HARMFUL IF SWALLOWED.

2 0 0

CONTENTS UNDER PRESSURE.

NOTE: MSDS data pertains to the product as delivered in the original shipping container(s). Risk of adverse effects are lessened by following all prescribed safety precautions, including the use of proper personal protective equipment.

Acute Effects

Routes of Entry

Dermal contact, Inhalation.

- Eyes** Causes eye irritation. Liquid in eye may cause irritation with possible damage if not rinsed immediately. Inflammation of the eye is characterized by redness, watering and itching.
- Skin** Causes skin irritation. Product may be dermal absorbed. Skin inflammation is characterized by itching, scaling, or reddening.
- Inhalation** Avoid breathing vapors, spray or mists. Harmful by inhalation. Inhalation causes headaches, dizziness, drowsiness and nausea and may lead to unconsciousness. Inhalation of the spray or mist may produce severe irritation of respiratory tract, characterized by coughing, choking or shortness of breath.

Ingestion Harmful if swallowed. Aspiration hazard if swallowed. Can enter lungs and cause damage.

Chronic effects

Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Contains material which may cause damage to the following organs: kidneys, liver, peripheral nervous system, central nervous system (CNS).

Carcinogenicity

Contains material which can cause cancer. Risk of cancer depends on duration and level of exposure.

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
Trichloroethylene	-	2A	-	-	Possible	+

Additional Information: See Toxicological Information (Section 11)

Section 3. Composition/Information on Ingredients

TRICHLOROETHYLENE; acetylene trichloride; 1-chloro-2,2-dichloroethylene	79-01-6	60 - 70
BLEND OF ISOBUTANE & PROPANE	74-98-6; 75-28-5	20 - 30
BLEND OF GRAPHITE, ISOPROPANOL, N-BUTYL ALCOHOL, HEXYLENE GLYCOL, PROPYLENE GLYCOL METHYL ETHER	7782-42-5; 67-63-0; 71-36-3; 107-41-5; 107-98-2	5 - 15

Section 4. First Aid Measures

- Eye Contact** Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention immediately.
- Skin Contact** Flush affected skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Wash clothing before reuse. Get medical attention if irritation develops.
- Inhalation** Move exposed person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
- Ingestion** Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If affected person is conscious, give plenty of water to drink. Get medical attention immediately.

Section 5. Fire Fighting Measures

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



- Flash Point** Not applicable.
- Flammable Limits** Not applicable.
- Flammability** Non-flammable. (CSMA)
- Fire hazard** CONTENTS UNDER PRESSURE. In a fire or if heated, a pressure increase will occur and the container may burst. Thermal decomposition may release toxic and/or hazardous gases. Do not allow vapor to accumulate in low or confined areas. Bursting aerosol containers may be propelled from a fire at high speed.
- Fire-Fighting Procedures** Use an extinguishing agent suitable for the surrounding fire.

Section 6. Accidental Release Measures

- Spill Clean up** Large spills are unlikely due to packaging.

Section 7. Handling and Storage

- Handling** Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wash thoroughly after handling.
- Storage** CONTENTS UNDER PRESSURE. Do not store above the following temperature: 49°C (120.2°F). Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep out of the reach of children.

Section 8. Exposure Controls/Personal Protection**Product name**

TRICHLOROETHYLENE; acetylene trichloride; 1-chloro-2,2-dichloroethylene

Exposure limits**ACGIH TLV (United States).**

TWA: 10 ppm 8 hour(s).

STEL: 25 ppm 15 minute(s).

OSHA PEL (United States).

TWA: 50 ppm 8 hour(s).

STEL: 200 ppm 15 minute(s).

BLEND OF ISOBUTANE & PROPANE

ACGIH TLV (United States).

TWA: 800 ppm 8 hour(s).

OSHA PEL (United States).

TWA: 1000 ppm 8 hour(s).

Personal Protective Equipment (PPE)

- Eyes** Safety glasses.
- Body** Wear appropriate protective clothing to prevent skin contact. Recommended: Viton gloves.
- Respiratory** Use with adequate ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Wear appropriate respirator when ventilation is inadequate.

**Section 9. Physical and Chemical Properties**

- Physical State** Liquid. [Aerosol.]
- pH** Not applicable
- Boiling Point** 82.2 - 87.8°C (180 - 190 °F)
- Specific Gravity** 1.32
- Solubility** Insoluble in the following materials: cold water and hot water.
- Color** Gray. [Dark]
- Odor** Solvent-like.
- Vapor Pressure** 8 kPa (60 mm Hg)
- Vapor Density** Not determined.
- Evaporation Rate** >1 (Butyl acetate. = 1)
- VOC (Consumer)** 1158.28 (g/l). (87.9%)

Section 10. Stability and Reactivity

Stability and Reactivity The product is stable.
Incompatibility Reactive or incompatible with the following materials: oxidizing materials, metals and alkalis.
Hazardous Polymerization Will not occur.
Hazardous Decomposition Products carbon oxides (CO, CO₂) May release dangerous gases (chlorine). Phosgene gas. Hydrogen chloride (HCl).

Section 11. Toxicological Information**Acute Toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Trichloroethylene	LD50 Dermal	Rabbit	10000 mg/kg	-
	LD50 Oral	Rat	4920 mg/kg	-
	LD50 Oral	Mouse	2402 mg/kg	-

Section 12. Ecological Information

Environmental Effects No known significant effects or critical hazards.

Aquatic Ecotoxicity

Not available.

Section 13. Disposal Considerations**Waste Information**

Waste must be disposed of in accordance with federal, state and local environmental control regulations. Consult your local or regional authorities for additional information.

Waste Stream Code: D040
 Classification: - [Hazardous waste.]
 Origin: - [RCRA waste.]

Section 14. Transport Information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label
DOT Classification	Not available.	Consumer commodity	ORM-D		
IMDG Class	Not determined.				

NOTE: DOT classification applies to most package sizes. For specific container size classifications or for size exceptions, refer to the Bill of Lading with your shipment.

PG* : Packing group

Section 15. Regulatory Information**U.S. Federal Regulations**

SARA 313 toxic chemical notification and release reporting:

Product name

Trichloroethylene

Clean Water Act (CWA) 307: Trichloroethylene

Clean Water Act (CWA) 311: Trichloroethylene RQ 100 lbs. (45.4 kg)

Clean Air Act (CAA) 112 regulated toxic substances: Trichloroethylene

All Components of this product are listed or exempt from listing on TSCA Inventory.

State Regulations**California Prop 65**

WARNING: This product contains a chemical or chemicals known to the state of California to cause cancer, birth defects or other reproductive harm.:
 Trichloroethylene

Section 16. Other Information

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.

**NOTE: Hazard Determination System (HDS) ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although these ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HDS ratings are to be used with a fully implemented program to relay the meanings of this scale.*