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Superior Solutions www.zep.com

Material Safety Data Sheet and Safe Handling and Disposal Information

Section 1. Chemical Product and Company Identification

Product name I.D. ORANGE (LIQUID)
Product use Solvent Degreaser
Product code 0571
Date of issue 04/07/05 **Supersedes** 05/25/93

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

For Medical Emergency
INFOTRAC: (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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Compliance Services
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Section 2. Composition, Information on Ingredients

Name of hazardous ingredients	CAS #	% by Weight	Exposure Limits
LIGHT ALIPHATIC NAPHTHA; solvent naphtha (petroleum), medium aliphatics	64742-88-7	85 - 95	ACGIH TLV (United States). TWA: 100 ppm 8 hour(s). Supplier Suggested TLV (United States). TWA: 100 ppm 8 hour(s).
DIPROPYLENE GLYCOL METHYL ETHER; dipropylene glycol monomethyl ether	34590-94-8	5 - 10	OSHA PEL (United States). TWA: 100 ppm 8 hour(s). ACGIH TLV (United States). STEL: 150 ppm 15 minute(s).

Section 3. Hazards Identification

Acute Effects

Routes of Entry

Skin Prolonged or repeated contact may dry skin and cause irritation. Non-sensitizer to skin. Skin inflammation is characterized by itching, scaling, or reddening.

Eyes Causes eye irritation. Inflammation of the eye is characterized by redness, watering and itching.

Inhalation Over-exposure by inhalation may cause respiratory irritation. Can cause central nervous system (CNS) depression. Medical conditions aggravated by over-exposure Respiratory

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

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

Carcinogenic Effects

Ingredients: Not listed as carcinogen by OSHA, NTP or IARC.

Chronic Effects

Prolonged skin contact may cause dermatitis with drying and cracking of skin.

See Toxicological Information (section 11)

HMIS

Health	1
Fire Hazard	2
Reactivity	0
Personal Protection	B

Section 4. First Aid Measures

Eye Contact

Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Get medical attention immediately.

Skin Contact

Wash affected area with soap or mild detergent and water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Get medical attention if irritation develops.


Inhalation

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If symptoms persist, seek immediate medical attention.

Ingestion

Aspiration hazard if swallowed. Can enter lungs and cause damage. If swallowed, do not induce vomiting. If vomiting occurs, keep head lower than hips to help prevent aspiration. Get medical attention immediately.

Section 5. Fire Fighting Measures

Flash Point	Closed cup: 63.3°C (146°F). (Tagliabue.)	Flammable Limits Lower: 1% Upper: 7%	
Flammability	Combustible liquid.		
Fire hazard	Container explosion may occur under fire conditions or when heated. Cool closed containers exposed to fire with water.		
Fire-fighting procedures	In case of fire, use water spray (fog), foam, dry chemical or CO ₂ . Wear special protective clothing and positive pressure, self-contained breathing apparatus.		


Section 6. Accidental Release Measures

Spill Clean up	Eliminate all ignition sources. Put on appropriate personal protective equipment (see section 8). Absorb with an inert material and transfer the spilled material and absorbent to an appropriate waste disposal container. To clean the floor and all objects contaminated by this material, use [***]. detergent. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
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Section 7. Handling and Storage

Handling	Keep away from heat, sparks and flame. Avoid breathing vapors, spray or mists. Avoid contact with eyes, skin and clothing. Wash contaminated clothing before reusing.
Storage	Avoid all possible sources of ignition (spark or flame). Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Store between the following temperatures: 40°F - 120°F (4.4°C - 49°C).

Section 8. Exposure Controls, Personal Protection

	Personal Protection	Protective Clothing (Pictograms)
Eyes	Safety glasses with side shields.	
Body	Nitrile gloves or other chemical resistant gloves.	
Respiratory	Use with adequate ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Wear appropriate respirator when ventilation is inadequate. Approved/certified respirator with organic vapor cartridge.	

Section 9. Physical and Chemical Properties

Physical State	Liquid.	Color	Colorless.
pH	Not applicable.	Odor	Slight.
Boiling Point	180°C (356°F)	Vapor Pressure	Not available.
Specific Gravity	0.8 (Water = 1)	Vapor Density	>1 (Air = 1)
Solubility	Insoluble in the following materials: cold water.	Evaporation Rate	>1 compared with Water
		VOC (Consumer)	100% 6.6 (lb/gal) 799 (g/l).

Section 10. Stability and Reactivity

Stability and Reactivity	The product is stable.
Incompatibility	Avoid contact with strong oxidizers, excessive heat, sparks or open flame.
Hazardous Polymerization	Will not occur.
Hazardous Decomposition Products	Carbon dioxide., Carbon monoxide. and other organic materials.

Section 11. Toxicological Information

Toxicity to Animals	Dipropylene Glycol Methyl Ether : ^[25,45,50,70 ORAL (LD50): □ Acute: 5220 mg/kg [Rat]. DERMAL (LD50): □ Acute: 13000 mg/kg [Rabbit].
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Section 12. Ecological Information

Ecotoxicity	Not available.
Biodegradable/OECD	Not available.

Section 13. Disposal Considerations

Waste Information	Waste must be disposed of in accordance with federal, state and local environmental control regulations.	Waste Stream Code: - (Not applicable.) Classification: - (Non-hazardous waste)
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Consult your local or regional authorities.

Section 14. Transport Information

Proper shipping name	Not applicable.	
DOT Classification	Not a DOT controlled material (United States).	UN number Not regulated.

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.

TDG Classification	Not a TDG-controlled material.
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Section 15. Regulatory Information**U.S. Federal Regulations**

SARA 313 toxic chemical notification and release reporting:

No products were found.

Clean Water Act (CWA) 311: No products were found.

Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

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

State Regulations

California Prop. 65: No products were found.

WHMIS (Canada)

Class B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F).

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.