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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 ZEP GROOVY (Aerosol)
Product use Aerosol Lubricant
Product code 0221
Date of issue 07/20/04 **Supersedes** 02/07/03

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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1420 Seaboard Industrial Blvd.
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Section 2. Composition, Information on Ingredients

Name of hazardous ingredients	CAS #	% by Weight	Exposure Limits
ACETONE; dimethyl ketone	67-64-1	10-20	ACGIH TLV (United States). TWA: 500 ppm 8 hour(s). OSHA PEL (United States). TWA: 1000 ppm 8 hour(s). ACGIH (United States). STEL: 750 ppm 15 minute(s).
ISOPARAFFINIC SOLVENT; petroleum naphtha, light alkylate	64741-66-8	<10	Supplier Suggested TLV (United States). TWA: 1400 mg/m ³ 8 hour(s). Not established
HYDROTREATED LIGHT PETROLEUM DISTILLATES; paraffinic, naphthenic solvent	64742-47-8	<10	
COPPER; copper metal	7440-50-8	10-20	OSHA PEL (United States). TWA: 1 mg/m ³ 8 hour(s). Form: Dusts and mists ACGIH TLV (United States). TWA: 1 mg/m ³ 8 hour(s). Form: Dusts and mists
PROPANE; liquefied petroleum gas	68476-85-7	40-50	ACGIH TLV (United States). : 800 ppm 8 hour(s). OSHA PEL (United States). TWA: 1000 ppm 8 hour(s).

Section 3. Hazards Identification

Acute Effects

Routes of Entry Inhalation. Ingestion.

Skin Hazardous by the following route of exposure: of skin contact (irritant). Skin inflammation is characterized by itching, scaling, or reddening. Defatting properties, may aggravate an existing dermatitis.

Eyes Hazardous by the following route of exposure: of eye contact (irritant). Inflammation of the eye is characterized by redness, watering and itching.

Inhalation Hazardous by the following route of exposure: of inhalation (lung irritant). Over-exposure by inhalation may cause respiratory irritation. Can cause central nervous system depression. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Medical conditions aggravated by over-exposure Respiratory.

Ingestion Aspiration hazard if swallowed. Can enter lungs and cause damage. Vomiting increases risk of chemical pneumonia.

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. Repeated or prolonged exposure to the substance can produce damage to kidneys, liver, and blood.

See Toxicological Information (section 11)

HMIS

Health	1
Fire Hazard	4
Reactivity	1
Personal Protection	B

Section 4. First Aid Measures

Eye Contact	Flush with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention.
Skin Contact	Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Cover the irritated skin with an emollient. 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. Get medical attention.
Ingestion	Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, keep head lower than hips to help prevent aspiration. Never give an unconscious person anything to ingest. Get medical attention immediately.

Section 5. Fire Fighting Measures

Flash Point	Open cup: -18°C (0°F) (Tagliabue).	Flammable Limits Not determined.
Flammability	Extremely flammable. (CSMA) Aerosol that may flash back.	
Fire hazard	FLAMMABLE LIQUID AND VAPOR. Vapor may cause flash fire. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Container explosion may occur under fire conditions or when heated.	
Fire-fighting procedures	Use dry chemical or CO ₂ . Wear special protective clothing and positive pressure, self-contained breathing apparatus. Cool containers with water jet in order to prevent pressure build-up, auto-ignition or explosion.	

**Section 6. Accidental Release Measures**

Spill Clean up	Large spills are unlikely due to packaging.
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Section 7. Handling and Storage

Handling	Extremely flammable liquid and vapor. Store and use away from heat, sparks, open flame or any other ignition source. Avoid contact with eyes, skin and clothing. Avoid breathing vapors, spray or mists. Use only with adequate ventilation. Wash thoroughly after handling. Wash contaminated clothing before reusing.
Storage	Store and use away from heat, sparks, open flame or any other ignition source. Keep away from heat and direct sunlight. Keep container in a cool, well-ventilated area. Do not store above the following temperature: 120°F (49°C). Do not puncture or incinerate. Keep out of the reach of children.

Section 8. Exposure Controls, Personal Protection

	Personal Protection	Protective Clothing (Pictograms)
Eyes	Safety glasses with side shields.	
Body	Chemical-resistant gloves. (Viton, Nitrile, Neoprene)	
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	Aerosol. Viscous liquid fill.	Color Gray.
pH	Not applicable.	Odor Solvent-like. (Slight.)
Boiling Point	Not determined.	Vapor Pressure 40 psig @ 70F
Specific Gravity	1.034 (Water = 1)	Vapor Density >1 (Air = 1)
Solubility	Very slightly soluble in the following materials: water.	Evaporation Rate Not available. VOC (Consumer) ~ 49%

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	Not available.
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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: D001 Classification: - (Hazardous waste.) Origin: - (RCRA waste.)
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Consult your local or regional authorities.

Section 14. Transport Information

Proper shipping name Consumer commodity

DOT Classification ORM-D

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 Limited quantity ORM-D

Section 15. Regulatory InformationU.S. Federal Regulations SARA 313 toxic chemical notification and release reporting:
Copper

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 A: Compressed gas.
Class B-5: Flammable aerosol.
Class D-1B: Material causing immediate and serious toxic effects (Toxic).**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.