



Zep Inc.
11627 178th Street
Edmonton, Alberta T5S 1N6
1-800-I-BUY-ZEP www.zep.com

Material Safety Data Sheet

and Safe Handling and Disposal Information

Section 1. Chemical Product and Company Identification

Product name GROOVY AEROSOL
Product Use Aerosol Anti-Seize Agent
Product Code 0239
Date of issue 09/10/08 **Supersedes** 10/05/05

Emergency For MSDS Information:

Telephone Technical Services Group
Numbers Zep Inc.
Telephone: (780) 453-8100 (Business Hours 8:00-5:00)

For a Medical or Transportation Emergency:

CANUTEC (24 Hours)
(613) 996-6666 - Call Collect

Prepared by Technical Services Group

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Section 2. Composition, Information on Ingredients

Name of Hazardous Ingredients	CAS #	% by Weight	Toxicity Data			
HYDROCARBON PROPELLANT	64741-65-7	15 - 40	Not available.	Not available.	Not available.	Not available.
COPPER; copper metal	7440-50-8	10 - 30	Not available.	Not available.	Not available.	Not available.
ISOPARAFFINIC SOLVENT; petroleum naphtha, light alkylate	64741-66-8	10 - 30	Not available.	Not available.	Not available.	Not available.
ODORLESS ALIPHATIC NAPHTHA; heavy alkylate petroleum naphtha; odorless mineral spirits	64741-65-7	1 - 5	LD50 LC50	Rat Rat	Oral Inhalation	>18800 mg/kg >5900 mg/m ³ (4 hour(s))

Section 3. Hazards Identification

Acute Effects

Routes of Entry Eye contact. Inhalation.

Skin Hazardous in case of skin contact (irritant, permeator). Non-sensitizer for skin. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering. Can cause central nervous system depression. Medical Conditions Aggravated by Overexposure: Skin

Eyes Hazardous in case of eye contact (irritant). Inflammation of the eye is characterized by redness, watering, and itching.

Inhalation Hazardous in case of inhalation (lung irritant). Can cause central nervous system depression. May cause respiratory tract irritation. Medical Conditions Aggravated by Overexposure: Respiratory

Ingestion Aspiration hazard if swallowed- can enter lungs and cause damage.

Chronic Effects

Prolonged or repeated contact may dry skin and cause irritation.

Additional information : See Toxicological Information (section 11)

Section 4. First Aid Measures

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

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. 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 anything by mouth to an unconscious person. Get medical attention immediately.

Section 5. Fire Fighting Measures

Flash Point	Not determined	Flammable Limits Not determined
Flammability	Extremely flammable. (CSMA)	
Auto-ignition Temperature	Not available.	
Fire-Fighting Procedures	Dry chemical, carbon dioxide, foam. Cool containing vessels with water jet in order to prevent pressure build-up, autoignition or explosion. Wear special protective clothing and positive pressure, self-contained breathing apparatus.	
Fire Hazard	FLAMMABLE LIQUID AND VAPOR. Vapor may cause flash fire. Vapors may accumulate in low or confined areas, travel considerable distance to source of ignition and flash back.	
Products of Combustion	Carbon Dioxide, Carbon Monoxide and other organic materials.	
Explosion hazard	Not available.	

Section 6. Accidental Release Measures

Spill Clean up Large spills are unlikely due to packaging.

Section 7. Handling and Storage

Handling	Store and use away from heat, sparks, open flame, or any other ignition source. Avoid contact with eyes, skin and clothing. Avoid breathing vapors or spray mists. Use only with adequate ventilation. 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 49°C (120.2°F). Do not puncture or incinerate. Keep out of the reach of children.

Section 8. Exposure Controls, Personal Protection

Engineering Controls Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protection

Eyes Safety glasses.

Hands and Body Neoprene gloves. Nitrile gloves. Rubber glove

Respiratory Use with adequate ventilation. If concentrations exceed recommended exposure levels, wear an approved/certified respirator until engineering controls are achieved.

Protective Clothing (Pictograms)**Exposure Limits**

Name of Hazardous Ingredients	CAS #	Exposure Limits
HYDROCARBON PROPELLANT	64741-65-7	OSHA PEL (United States). TWA: 1000 ppm 8 hour(s).
Isoparaffinic Solvent	64741-66-8	Supplier Suggested TLV (United States). TWA: 1400 mg/m ³ 8 hour(s).
Copper	7440-50-8	OSHA PEL (United States). TWA: 1 mg/m ³ 8 hour(s). Form: Dusts and Mists
Odorless Aliphatic Naphtha	64741-65-7	ACGIH TLV (United States). TWA: 1 mg/m ³ 8 hour(s). Form: Dusts and Mists OSHA PEL (United States). TWA: 500 ppm 8 hour(s). ACGIH TLV (United States). TWA: 100 ppm 8 hour(s).

Consult local authorities for acceptable exposure limits.

Section 9. Physical and Chemical Properties

Physical State Liquid. (Viscous liquid. Aerosol.)

pH Not applicable.

Boiling Point 38.889°C (102°F)

Freezing Point Not available.

Specific Gravity 0.973 (Water = 1)

Solubility Insoluble in cold water, hot water.

Color Grey.

Odor Mild. Sweetish.

Vapor Pressure Not determined.

Vapor Density Not determined.

Evaporation Rate Not determined.

VOC (Consumer) 75.0%

Section 10. Stability and Reactivity

Stability and Reactivity The product is stable.

Incompatibility Avoid contact with strong oxidizers, excessive heat, sparks or open flame. Reactive with oxidizing agents, metals, alkalis.

Reactivity Will not occur.

Hazardous Decomposition Products Carbon Dioxide, Carbon Monoxide and other organic materials.

Section 11. Toxicological Information

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

Reproductive Effects Not available.

Mutagenic Effects Not available.

Teratogenic Effects Not available.

Section 12. Ecological Information

Ecotoxicity Not available.

Biodegradable/OECD Not available.

Section 13. Disposal Considerations

Waste Information Consult your local or regional authorities. Waste **Waste Stream** Not available. must be disposed according to applicable regulations.

Section 14. Transport Information

Regulatory Information	UN number	Proper shipping name	Class	Packing Group	Label	Additional information
TDG Classification			Limited Quantity			

Limited Quantity: Small quantities of controlled goods are not regulated as Dangerous Goods according to the TDG regulations.

Section 15. Regulatory Information**WHMIS (Canada)**

Class A: Compressed gas.

Class B-5: Flammable aerosol.

Class D-1B: Material causing immediate and serious toxic effects (TOXIC).

Other Regulations

Not available.

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the available information required by the CPR.

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.