



your partner in food safety

SDS

Safety Data Sheet

1) Product Identification

Product Name: Gre-Zof

Product Code: I00037

Recommended Use: For breaking up or loosening of grease and tar.

Producer: Birko Corporation
9152 Yosemite Street
Henderson, CO 80640-8027

Contact Information: (303) 289-1090 or 1-800-525-0476

Emergency Number: CHEMTREC 1-800-424-9300

2) Hazard(s) Identification

Health	Environmental	Physical
Acute Toxicity Cat. 5 Skin Corrosion Cat. 2 Eye Effects Cat. 2B Aspiration Cat. 2 Carcinogenic Cat. 2 (Absorption, and ingestion)	Aquatic Toxicity Acute Cat. 3	Flammable Liquid Cat. 4

Labeling:**Symbol:****Signal Word: Danger****Target Organ Toxicity, Irritant, Aquatic Toxicity****Hazard Statement(s):** May causes irreversible eye damage. Harmful or fatal if swallowed. Do not get into eyes, on skin, or on clothing.**Precautionary Statement(s):** Use rubber gloves, protective splash-proof goggles, and protective clothing. Remove contaminated clothing and wash before re-use. Do not contaminate food, feed, or water. Keep container closed when not in use.

3) Composition/ Information on Ingredients

Name(s)	Synonym(s)	CAS Number	Weight %
Hydrotreated Distillate	Light C9-15	64742-47-8	< 60%
Propylene Glycol Monomethyl Ether	2-Propanol, 1-Methoxy	107-98-2	< 10%
Dipropylene Glycol Methyl Ether	Di Methoxy Propanol	34590-94-8	< 20%

4) First-Aid Measures

Inhalation	Skin Contact	Eye Contact	Ingestion
If respiratory symptoms develop, move victim away from source of exposure and into fresh air. If symptoms persist, seek medical attention. If victim is not breathing, clear airway and immediately begin artificial respiration. If breathing difficulties develop, oxygen should be administered by qualified personnel. Seek immediate medical attention.	Wash with soap and water. Get medical attention if irritation develops or persists.	Flush eyes with water for 15 minutes. If irritation or redness persists seek medical attention.	Aspiration hazard: Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. If victim is drowsy or unconscious and vomiting, place on the left side with the head down. If possible, do not leave victim unattended and observe closely for adequacy of breathing. Get immediate medical attention.

5) Firefighting Measures

Suitable Extinguishing Media: Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this material.

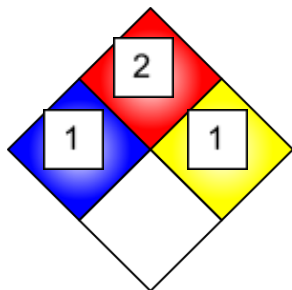
Unsuitable Extinguishing Media: Solid stream of water directly on the fire as the water may spread the fire to a larger area.

Flashpoint: Closed Cup: 150°F

Flammable Limits: 6%-0.8%

Specific Hazards: Always wear self-contained breathing apparatus when fighting a chemical fire.

Special Protective Actions for Fire-Fighters: Carbon Monoxide/Carbon Dioxide gases liberated during combustion. Unburned hydrocarbons liberated during combustion.



6) Accidental Release Measures

Personal Precautions: Be sure to use all necessary Personal Protective Equipment

Environmental Precautions: Keep material out of storm sewers and ditches which lead to waterways.

Land spill: Spills and releases may have to be reported to Federal and/or local authorities. Air spill: Control or stop the loss of volatile materials to the atmosphere.

Methods and Materials for Containment and Clean-Up: Stay up wind of spill/release and notify persons downwind of spill/release. For small spills: Absorb liquid and place in sealed container for disposal. Vapors can travel to an ignition source. Large Spills Absorb liquid and place in sealed container for disposal. Vapors can travel to an ignition source. Avoid runoff into storm sewers and ditches which lead to water ways. Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust. If this material is released into a work area, evacuate the area immediately.

7) Handling and Storage

Precautions for Safe Handling: Use with sufficient ventilation to keep employee exposure below recommended limits. Provide adequate ventilation for storage, handling and use, especially for enclosed or low spaces. Avoid contact of liquid with eyes and prolonged skin exposure. Do not allow product to contact open flame or electrical heating elements.

Conditions for Safe Storage: Keep container closed when not in use. Store in a cool, dry location. Keep away from sources of ignition.

8) Exposure Controls and Personal Protection

Appropriate Engineering Controls: Use only in a well ventilated area. Use explosion-proof ventilation equipment.

Exposure Limits:

Name (CAS-No.)	PEL	TWA	Ceiling	IDLH	STEL
Hydrotreated Distillate	NONE	ACGIH 200mg/m ³	NONE	NONE	NONE
Propylene Glycol Monomethyl Ether (107-98-2)	NONE	ACGIH 100ppm OSHA 100ppm/360 mg/m ³	NONE	NONE	ACGIH-150ppm OSHA- 150ppm/540 mg/m ³
Dipropylene glycol methyl ether (34590-94-8)	100ppm/600 mg/m ³	ACGIH 100ppm OSHA 100ppm/600mg/m ³	NONE	NONE	ACGIH-150ppm OSHA 150ppm/900mg/m ³

Personal Protective Equipment

Eye/Face	Gloves	Clothing
		

Eye/Face: Safety glasses

Skin: Wear appropriate body covering clothing. Conditions may call for chemical apron

Gloves: Wear appropriate chemical resistant gloves.

Protective Material Types: Neoprene, butyl rubber, or vinyl gloves.

9) Physical and Chemical Properties

Physical Form: Liquid

Appearance: Amber-brown

Odor: Solvent

pH: N/A

Melting Point: Not available

Freezing Point: Not established

Boiling Point: 350-400°F

Flash Point: > 200°F

Evaporation Rate: > 1

Flammability: Not flammable

Upper/Lower Flammability or explosive limits: 6.0-0.80%

Vapor Pressure: Not determined

Vapor Density: > 1

Relative Density: Not established

Specific Gravity: 0.87

Solubility: 100% dispersible

Partition coefficient: Not available

Auto-Ignition Temperature: Not established

Decomposition Temperature: Not available

10) Stability and Reactivity

Chemical Stability: Stable at normal temperatures and pressure.

Possibility of Hazardous Reactions: This product does not polymerize.

Conditions to Avoid: Heat, flame, other sources of ignition.

Materials to Avoid: Strong oxidizers, especially chlorites or permanganates.

Hazardous Decomposition Products: Carbon monoxide and Carbon dioxide. Unburned hydrocarbons liberated during combustion.

11) Toxicological Information

Toxicity: Acute

Test	Results	Basis
Dermal LD50 (Rabbit)	2g/kg	Similar material
Dermal LC50 (Rat)	4-hr 5mg/L	Similar material
Oral LD50 (Rat)	5g/kg	Similar material

Toxicity: Chronic

Summary Comments: Acute: Mildly irritating to eyes, and may be absorbed through the skin in harmful amounts. **Chronic:** Hydrotreated Distillate, Light..C9-15, Prolonged and repeated skin exposure of mice to certain middle distillate streams has resulted in dermatitis, which has been associated with the promotion of skin tumors via a non-genotoxic mechanism. This material has not been identified as a carcinogen by NTP, IARC, OSHA.

12) Ecological Information

Toxicity:

Test	Results
NONE	NONE

Persistence and Degradability: May cause long-term adverse effects in the aquatic environment.

Bioaccumulative Potential: No data

Mobility in Soil: Expected to be readily biodegradable

Other Adverse Effects: Not available

13) Disposal Considerations

Disposal Method: Re-use or reprocess if possible. Dispose in accordance with all applicable regulations. Subject to disposal regulations: U.S. EPA 40 CFR 262. Hazardous Waste Number(s): D002

14) Transport Information

UN Number: UN1993

UN Proper Shipping Name: Flammable liquids, n.o.s., (Propylene Glycol Methyl Ether, Dipropylene Glycol Methyl Ether)

Transport Hazard Class (es): 3

Packing Group: II

Environmental Hazard(s): N/A

Special Precautions for User: N/A

15) Regulatory Information

US Regulations:

CERCLA Sections 102a/103 Hazardous substances (40 CFR 302.4): N/A

SARA Title III SARA Sections 311/312 Hazardous Categories (40 CFR 370.21): Fire Hazard

Acute: No

Chronic: No

Fire: Yes

Reactive: No

Sudden Release: No

State Regulations:

California Proposition 65: This product is not listed

New Jersey Worker and Community Right to Know: Hazardous substance list:

Propylene Glycol Monomethyl Ether	107-98-2
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Dipropylene Glycol Methyl Ether	34590-94-8
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Pennsylvania Right to Know: Hazardous substance list:

Propylene Glycol Monomethyl Ether	107-98-2
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Dipropylene Glycol Methyl Ether	34590-94-8
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Canadian Regulations:

Controlled Products Regulations (CPR): This product has been classified in accordance with the criteria of the Controlled Products Regulations and the MSDS contains all of the information required by the CPR.

WHMIS Classification: B, D2

National Inventory Status: U.S. Inventory (TSCA): All the components of this substance are listed on or exempt from the inventory.

Canada Inventory (DSL/NDSL): All components of this product are listed on the DSL

16) Other Information

HMIS

2	FLAMMABILITY
1	HEALTH
1	REACTIVITY
C	Personal Protection

4-Severe

3-Serious


































2-Moderate

1-Slight

0-Minimal

Hazard Index

Personal Protective Index

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Safety Glasses Face Shield Splash Goggles Airline Hood or Mask Gloves Synthetic Apron Dust Respirator Vapor Respirator Dust + Vapor Respirator Full Suit Boots

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Approved By: Terry L. McAninch

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