

# MATERIAL SAFETY DATA SHEET

Dow Frost

Date Prepared: 07/01/2006

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## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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### Product Name

Dow Frost

### Product Number(s)

MDWDOWFROST-01, MDWDOWFROST-02,  
MDWDOWFROST-05, MDWDOWFROST-55

### Chemical Name

Mixture

### Use

Varies

### Company Identification

GoldenWest Lubricants, Inc.  
1937 Mount Vernon Avenue  
Pomona, CA 91768-3312

### Telephone Numbers

Emergency: Chemtrec (24 hr)	(800) 424-9300
Technical Information:	(909) 865-1937
Product Information:	(909) 865-1937

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## 2. COMPOSITION/INFORMATION ON INGREDIENTS

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### HAZARDOUS COMPONENTS:

<u>Components</u>	<u>CAS No.</u>	<u>% by Wt.</u>	<u>OSHA PEL</u>	<u>TWA (ACGIH)</u>
Propylene Glycol	000057-55-6	>90	None Established	None Established
Dipotassium Phosphate	007758-11-4	<5	None Established	None Established

### NOTE:

All the components of this material are listed on the Toxic Substances Control Act Chemical Substances inventory.

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### 3. HAZARDS IDENTIFICATION

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<b>EMERGENCY OVERVIEW</b>
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| <ul style="list-style-type: none"> <li>◆ Can cause eye irritation</li> <li>◆ Prolonged exposure can cause skin irritation</li> <li>◆ Do not swallow</li> </ul> |
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#### *Potential Health Effects*

- Eye:** May cause stinging irritation, tearing, or redness.
- Skin Contact:** Repeated or prolonged contact may cause dryness or irritation.
- Ingestion:** May cause mouth and throat irritation when swallowed; ingestion of large quantities may cause discomfort.
- Inhalation:** If used in applications where mist is generated, may cause irritation to nose and throat.
- Signs and Symptoms of Exposure:** Irritation to skin, watering or redness in eyes, discomfort, throat irritation if swallowed.

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### 4. FIRST AID MEASURES

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- Eye:** Flush with water. If irritation occurs call for medical assistance.
- Skin:** Remove contaminated clothing. Wash with soap and water. Call for medical attention if symptoms prevail.
- Ingestion:** DO NOT induce vomiting. Get medical assistance.
- Inhalation:** Remove person to fresh air. Call for medical attention if needed.

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### 5. FIRE FIGHTING MEASURES

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- Flash Point:** 215°F      **Method:** ASTM D-92
- Flammable Limits (% by volume in air):** Lower: ND      Upper: ND
- :
- Extinguishing Media:** Non Flammable Use available media to cool material.
- NFPA Ratings:** Health – 1      Flammability – 1      Reactivity – 0
- (0 - Insignificant, 1 - Slight, 2 - Moderate, 3 - High, 4 - Extreme)

**Fire Fighting Instructions:** Non-Flammable. Wear protective clothing and self-contained breathing apparatus. Use available media to cool containers exposed to fire.

**Combustion or Decomposition Products:** May cause smoke and oxides of carbon.

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## 6. ACCIDENTAL RELEASE MEASURES

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Chemtrec Emergency Number (24 hrs): (800) 424-9300  
U.S. Coast Guard National Response Center: (800) 424-8802

**Spill Procedures:** Personal Protective Equipment must be worn; see Section 8 for recommendations. Ventilate area if spilled in confined space or other poorly ventilated areas. Prevent entry into sewers and waterways. Pick up free liquid for recycle and/or disposal. Residual liquid can be absorbed on inert material. Check under Transportation and Labeling (DOT/CERCLA) and Other Regulatory Information Section (SARA) for hazardous substances to determine regulatory reporting requirements for spills.

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## 7. HANDLING AND STORAGE

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**Handling and Storage:** Avoid eye and prolonged skin contact as with all industrial materials. Wash thoroughly after handling. Follow all MSDS/label precautions after container is emptied because they may retain product residues. Store in a cool, dry place. Keep containers closed when not in use.

*Read and follow all precautions on product label*

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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### *Personal Protective Equipment*

**Eye/Face Protection:** Use chemical goggles or face shield.

**Skin Protection:** Contact may be minimized by wearing protective clothing and oil resistant gloves.

**Respiratory Protection:** Use NIOSH/MSHA approved full face respirator with an organic vapor cartridge if the recommended exposure limit is exceeded. Use self-contained breathing apparatus for entry into confined space, for other poorly ventilated areas and large spill clean-up sites.

**Engineering Controls:** Good general ventilation should be sufficient to control airborne levels below exposure limits. A local exhaust is recommended in enclosed areas.

**Clothing Recommendation:** Long sleeve shirt is recommended. Wear a chemically protective apron when contact with material may occur. Do not wear rings, watches or similar apparel that could entrap and cause a skin reaction.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

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<b>Appearance:</b>	Clear Liquid
<b>Odor:</b>	Odorless
<b>Specific Gravity (water = 1):</b>	1.05
<b>Viscosity SUS @ 100°F:</b>	ND
<b>Flash Point:</b>	215°F
<b>pH (as is):</b>	ND
<b>pH (dilute) @ 5 %:</b>	ND
<b>Solubility in Water (%):</b>	100
<b>Vapor Pressure (mm Hg):</b>	0.22 @ 68°F
<b>Vapor Density (air = 1):</b>	2.62
<b>Volatile Organic Compound:</b>	ND

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**10. STABILITY AND REACTIVITY**

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<b>Hazardous Decomposition Products:</b>	May cause smoke and oxides of carbon.
<b>Chemical Stability:</b>	Material is normally stable at room temperature and pressure. See the Handling and Storage section for further details.
<b>Conditions to Avoid:</b>	NA
<b>Incompatibility with other Materials:</b>	Oxidizing or acidic materials
<b>Hazardous Polymerization:</b>	Will not occur

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**11. TOXICOLOGICAL INFORMATION**

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Skin: The LD50 for skin absorption in rabbits is greater than 10,000 mg/kg.

Ingestion: The oral LD50 for female rats is about 20.3 g/kg.

Mutagenicity (Effects on genetic material): Results of in vitro(test tube) mutagenicity tests have been negative. Results of mutagenicity tests in animals have been negative.

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**12. ECOLOGICAL INFORMATION**


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Environmental Fate Movement and Partitioning: Based largely or completely on data for major component(s). Bioconcentration potential is low (BCF less than 100 or Log Pow less than 3).

Degradation and Persistence: Based largely or completely on data for major component(s). Biodegradation under aerobic static laboratory conditions is high (BOD20 or BOD28/ThOD greater than 40%)

Ecotoxicity: Based largely or completely on data for major component(s). Material is practically non-toxic to aquatic organisms on an acute basis (LC50 greater than 100 mg/L in most sensitive species).

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**13. DISPOSAL CONSIDERATIONS**


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Any disposal practice must be in compliance with local, state and federal laws and regulations. Empty containers must be handled with care due to product residue. GoldenWest Lubricants Inc. will provide lists of companies which recycle or handle waste material to customers upon request. For information call (909) 865-1937.

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**14. TRANSPORT INFORMATION**


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<b>DOT Shipping Name:</b>	Not regulated
<b>DOT Hazard Class:</b>	Not regulated
<b>DOT Packaging Group:</b>	NA
<b>DOT/UN Identification:</b>	NA
<b>Additional Information:</b>	

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**15. REGULATORY INFORMATION**


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**TSCA Status:** All components are listed in TSCA inventory.

**CERCLA Reportable Quantity:** This product does not contain any RQ substances.

**SARA Title III: Title III of the Superfund Amendments and Reauthorization Act of 1986:**

<b>Section 302 Extremely Hazardous Substances:</b>	Not an extremely hazardous substance
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<b>Section 311/312 Hazardous Categories:</b>	
<b>Immediate (Acute) Health Effects:</b>	No
<b>Delayed (Chronic) Health effects:</b>	No
<b>Fire Hazard:</b>	No
<b>Sudden Release of Pressure Hazard:</b>	No

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**Reactivity Hazard:** No  
**Carcinogenicity Status:** Constituents not listed by: IARC, NTP,  
OSHA

**SARA 313 Toxic Chemical Release Reporting:**

<u>Chemical Name</u>	<u>CAS Number</u>	<u>% in Product</u>
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This product does not contain greater than 1.0% (greater than 0.1% for carcinogenic substance) listed under SARA Section 313.

**California Proposition 65 Status:**

Not Applicable

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**16. OTHER INFORMATION**

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**Label Hazard Ratings:**

NFPA

Fire - 1

Health - 1

Reactivity - 0

Specific Hazard - none

HMIS

Health - 1

Fire - 1

Reactivity - 0

Personal Protection Index - C

**MSDS Revision Statement:**

All sections revised.