

GOODRICH

Material Safety Data Sheet (WHMIS)

SECTION I: PRODUCT INFORMATION

MANUFACTURER/SUPPLIER:
Goodrich De-icing & Specialty Systems
1555 Corporate Woods Parkway
Uniontown, Ohio (USA) 44685

PRODUCT IDENTIFIER:
ShineMaster™
PRODUCT USE:
Aerospace Coating

TELEPHONE:
Emergency: 1-800-424-9300
Information: (330)374-4011

PRODUCT IDENTIFICATION NO.: 74-451-178
74-451-203
REV. DATE: 5-10-02

SECTION II: HAZARDOUS INGREDIENTS

| MATERIAL OR COMPONENT | CAS NUMBER | WEIGHT (%) | OSHA PEL | ACGIH TLV | LD ₅₀ (RAT) | LC ₅₀ (RAT) |
|--------------------------------------|------------|------------|--------------------|---------------------------------|------------------------|------------------------|
| Ethylene Glycol* | 107-21-1 | 0-5 | N/A | 100mg/m ³ Ceiling | 4700mg/kg | > 198mg/m ³ |
| Nonylphenol Ethoxylated | 9016-45-9 | .2-.4 | N/A | N/A | 4000mg/kg | NE |
| Dibutyl Phthalate* | 84-74-2 | 1-3 | 5mg/m ³ | 5mg/m ³ | 8000mg/kg | 4250mg/m ³ |
| Dipropylene Glycol Monomethyl Ether† | 34590-94-8 | 3-6 | 100ppm | 100ppm | 5660mg/kg | NE |
| Zinc Ammonium Carbonate Compound | 38714-47-5 | 1-3 | N/A | N/A | NE | NE |

* Chemicals listed in SARA Title III, Section 313

† Chemical has been identified as a skin hazard

SECTION III: PHYSICAL DATA

| | | | |
|----------------------------|---------|---------------------------------------|--------------------------|
| BOILING POINT (°F) | 212 | SPECIFIC GRAVITY | 1.020 |
| VAPOR PRESSURE (mm Hg) | 25 | % VOLATILE BY WEIGHT | N/A |
| VAPOR DENSITY (AIR = 1) | 1 | EVAPORATION RATE (BUTYL ACETATE = 1) | 1 |
| SOLUBILITY IN WATER (20°C) | SOLUBLE | FREEZING POINT (°F) | N/A |
| ODOR THRESHOLD | N/A | COEFFICIENT OF WATER/OIL DISTRIBUTION | N/A |
| PHYSICAL STATE (pH = 8.0) | LIQUID | ODOR AND APPEARANCE | MILKY LIQUID/SLIGHT ODOR |

SECTION IV: FIRE AND EXPLOSION DATA

| | | |
|---|-------------------------------------|-------------------------|
| FLASH POINT (METHOD): 200°F (Setaflash, Closed Cup) | FLAMMABLE LIMITS IN AIR LEL: N/A | % BY VOLUME UEL: N/A |
| EXTINGUISHING MEDIA: Use water spray, dry chemical, foam or carbon dioxide. | | |

SECTION IV: FIRE AND EXPLOSION DATA (Cont.)

SPECIAL FIRE FIGHTING PROCEDURES: Do not enter confined fire space without proper protective equipment, including a NIOSH (positive pressure) approved self contained breathing apparatus (SCBA) and full protective clothing.

HAZARDOUS DECOMPOSITION PRODUCTS: Decomposition products and amounts produced will depend on decomposition conditions, but will most likely contain carbon monoxide, carbon dioxide, and traces of hydrocarbons after water evaporates.

FLAMMABILITY: NOT FLAMMABLE

AUTO-IGNITION TEMPERATURE: N/A

EXPLOSION - SENSITIVITY TO IMPACT: N/A

EXPLOSION - SENSITIVITY TO STATIC DISCHARGE: N/A

SECTION V: REACTIVITY DATA

CHEMICAL STABILITY: STABLE

CONDITIONS TO AVOID: EXCESSIVE HEAT

INCOMPATIBILITY: None Known

HAZARDOUS DECOMPOSITION PRODUCTS: Decomposition products and amounts produced will depend on decomposition conditions, but will most likely contain some carbon monoxide, carbon dioxide, and traces of hydrocarbons.

REACTIVITY: Not Reactive

CONDITIONS TO AVOID: N/A

SECTION VI: TOXICOLOGICAL PROPERTIES

ROUTES OF ENTRY: Skin and Eye Contact, Ingestion, Inhalation of Vapors/Mist

ACUTE AFFECTS (SHORT OR SINGLE EXPOSURE):

- EYE CONTACT: Liquid and/or mist can cause mild to moderate irritation.
- INGESTION: Can cause dizziness, nausea, vomiting and diarrhea, faintness and/or drowsiness.
- SKIN CONTACT: Can cause irritation (break-out/rash) on prolonged or repeated exposure.
- INHALATION: Can be irritating to mucous membranes.

CHRONIC AFFECTS OF OVEREXPOSURE: None Known - However, pre-existing skin, eye, and respiratory disorders may be aggravated by exposure.

EXPOSURE LIMITS: TWA: N/A, STEL: N/A - See limits for Hazardous Ingredients on page 1.

IRRITANCY OF PRODUCT: May cause irritation or prolonged or repeated exposure.

SENSITIZING CAPABILITY OF PRODUCT: N/A

CARCINOGENICITY: None Known

TERATOGENICITY AND EMBRYOTOXICITY: N/A

REPRODUCTIVE TOXICITY: N/A

MUTAGENICITY: N/A

SECTION VI: TOXICOLOGICAL PROPERTIES (Cont.)

SYNERGISTIC MATERIALS: N/A

SECTION VII: PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT:

- GLOVES: Resistant gloves (ie. Butyl, PVC, etc.)
- RESPIRATORY: NIOSH approved hydrocarbon canister or respirator should be worn if needed.
- EYE PROTECTION: Goggles
- FOOTWEAR: N/A
- CLOTHING: Appropriate to prevent eye and skin contact.
- OTHER: Have eyewash and safety shower in area.

ENGINEERING CONTROLS: Local exhaust to keep vapors/mist below TWA or permissible limits.

LEAK AND SPILL PROCEDURES: For small spills, mop or wipe up and dispose of in DOT approved waste containers. For larger spills, contain by diking with soil or another noncombustible absorbent material (such as Fullers earth, clay, or appropriate synthetic absorbent). Do not flush to storm sewer or waterway. Do not flush to sanitary sewer without authorization by appropriate government officials. Dispose of all contaminated materials in accordance with Federal, State, and Local regulations.

WASTE DISPOSAL: Dispose of product and contaminated materials in accordance with applicable Federal, State, and Local regulations.

HANDLING PROCEDURES AND EQUIPMENT: In addition to any precautions listed, you should consult your occupational safety and health specialist to ensure that the suggested procedures will be adequate and in compliance with applicable laws and regulations.

- Use only in well ventilated area and avoid breathing vapors and mists.
 - Avoid skin and eye contact (especially prolonged or repeated contact).
 - Wash thoroughly after handling material.
 - Keep out of the reach of children.
-

STORAGE REQUIREMENTS:

- Do not store under freezing conditions or above 120°F (49°C).
- Store in cool, dry, well ventilated place.
- Store in tightly closed containers.
- Empty containers of this material may contain residual liquid, vapors or dust. Precautions previously cited should be observed with such containers. Dispose of in accordance with all Federal, State, and Local regulations.

SPECIAL SHIPPING INFORMATION:

| | |
|-----------------------|---------------|
| DOT CLASSIFICATION: | Not Regulated |
| HMIS RATING: | H-1, F-0, R-1 |
| WHMIS CLASSIFICATION: | D-2 |

SECTION VIII: FIRST AID MEASURES

EYES: Flush eyes with plenty of water for at least 15 minutes (holding eyelids open), longer if there are indications of residual material in eye. See a physician if irritation persists.

SECTION VIII: FIRST AID MEASURES (Cont.)

SKIN: Remove contaminated clothing and shoes. Launder before reuse. Wash affected area with plenty of soap and water. See a physician if irritation develops or persists.

INHALATION: Move to fresh air immediately. If not breathing give artificial respiration, preferably mouth to mouth. Loosen tight fitting clothing. Keep person warm and quiet. If symptoms develop, call a physician at once.

INGESTION: Call a physician, emergency room, or poison control center immediately. Unless directed otherwise by a physician, induce vomiting by sticking finger down throat, by giving warm soapy water, or syrup of ipecac.

NOTE: Never give anything by mouth to an unconscious person. Never give anything to drink to person who is convulsing or has no gag reflex.

SECTION IX: PREPARATION INFORMATION

PREPARED BY: Terry Sluss
TITLE: Advanced Product Chemist
TELEPHONE: (330)374-4011
ORIGINAL DATE: 5-22-92
REV. DATE: 8-9-95, 4-14-00; 5-10-02

DISCLAIMER OF LIABILITY:

The above information has been prepared by Goodrich De-icing Systems and is a compilation of information from various sources believed to be accurate. As the conditions or methods of use are beyond our control, Goodrich does not assume any responsibility and expressly disclaims any liability for any use of the materials described herein. Information contained herein is believed to be true and accurate, but all statements or suggestions are made without warranty, express or implied, regarding the accuracy of the information, the hazards connected with the use of the material or the results obtained from the use thereof. Compliance with all applicable, Federal, State, and Local regulations remains the responsibility of the user.
