

MATERIAL SAFETY DATA SHEET

1 PRODUCT AND COMPANY IDENTIFICATION

Product Name: ShineMaster™ Prep
Synonyms: No information available
Material identifier: 74-451-179 used in Kit 74-451-Z
Molecular Formula: Not applicable
Molecular Weight: Not applicable

Company:
Goodrich Corporation
Sensors and Integrated Systems (Formerly De-icing and Specialty Systems)
1555 Corporate Woods Parkway
Uniontown, Ohio 44685

Emergency Telephone:
(800)424-9300
Business Telephone:
(330)374-4011

Intended Use: Aerospace Coating Cleaner

2 HAZARDS IDENTIFICATION

Emergency Overview

Physical State: Thick liquid
Color: No data available
Odor: Ammonia

WARNING!

Harmful if inhaled, absorbed through skin or swallowed.
Causes skin and eye irritation.
Mist or vapor irritating to eyes and respiratory tract.
High vapor concentrations may cause central nervous system effects.

Potential Health Effects

Inhalation: Harmful if inhaled. Mist or vapor irritating to respiratory tract. High vapor concentrations may cause central nervous system effects. Exposure may cause severe respiratory tract irritation, coughing and wheezing.

Eye Contact: Causes eye irritation. Mist or vapor irritating to the eyes. Exposure may cause burning, tearing, redness and discomfort.

Skin Contact: Causes skin irritation. Harmful if absorbed through skin. Exposure may cause burning, redness, itching and inflammation.

Ingestion: Harmful if swallowed. Exposure may cause gastrointestinal burns, nausea, vomiting, diarrhea and other systemic effects.

Chronic Health Effects: Long term exposure to this product may cause blood, liver, central nervous system and kidney damage based on animal data for the components.

Target Organ(s): Eye, skin, respiratory system, kidney, liver, blood, central nervous system

OSHA Regulatory Status: Hazardous

3 COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS-No.	Weight %
water	7732-18-5	> 85
ethylene glycol monobutyl ether	111-76-2	< 4.5
ammonia, anhydrous	7664-41-7	< 3.5
dodecyl benzene sulfonic acid	27176-87-0	< 2
triethanolamine	102-71-6	< 1.5
diethanolamine	111-42-2	< 0.3

Components not listed are not hazardous or are below reportable limits.

4 FIRST AID MEASURES

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. Get medical attention.

Skin Contact: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Thoroughly clean contaminated shoes before reuse.

Ingestion: Call a physician or poison control center immediately. Only induce vomiting at the instruction of medical personnel. Never give anything by mouth to an unconscious person.

5 FIRE-FIGHTING MEASURES

Extinguishing Media: Water spray, dry chemical, carbon dioxide, foam

Unsuitable Extinguishing Media: Not applicable.

Special Fire Fighting Procedures: Self contained breathing apparatus and full protective clothing must be worn in case of fire. Use water spray to keep fire-exposed containers cool.

Unusual Fire & Explosion Hazards: Container may rupture in a fire situation.

Hazardous Combustion Products: Carbon oxides, oxides of nitrogen, oxides of sulfur, ammonia

6 ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear appropriate personal protective equipment (See Section 8).

Spill Cleanup Methods: Small Liquid Spills: Wipe up or use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.

Large Spillages: Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Flush area with water spray. Prevent entry into waterways, sewer, basements or confined areas.

7 HANDLING AND STORAGE

Handling: Personal Precautionary Measures: Wear appropriate personal protective equipment. Avoid breathing mist or vapors. Avoid contact with eyes, skin and clothing. Do not taste or swallow. Use with adequate ventilation. Wash thoroughly after handling.

Prevention of Fire and Explosion: Keep away from strong oxidizing agents.

Special Handling Instructions: In addition to any precautions listed, consult occupational safety and health specialist to ensure that the suggested procedures will be adequate and in compliance with applicable laws and regulations.

Storage: Keep container tightly closed and in a well-ventilated place. Keep from freezing.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:

Chemical Name	Source	Type	Exposure Limits	Notes
2-Butoxyethanol	NIOSH	IDLH	700 ppm	Skin
2-Butoxyethanol (EGBE)	ACGIH	TWA	20 ppm	Irritation; CNS
2-Butoxyethanol	OSHA	TWA	50 ppm	Skin
2-Butoxyethanol	Cal OSHA	TWA	25 ppm	Skin
Ammonia	NIOSH	IDLH	300 ppm	--
Ammonia	ACGIH	TWA	25 ppm	Eye damage; Upper respiratory irritation
Ammonia	OSHA	TWA	50 ppm	--
Ammonia	Cal OSHA	TWA	25 ppm	--
Ammonia	Cal OSHA	STEL	35 ppm	--
Triethanolamine	ACGIH	TWA	5 mg/m ³	Eye & skin irritation
Triethanolamine	Cal OSHA	TWA	5 mg/m ³	--
Diethanolamine	ACGIH	TWA	1 mg/m ³	Liver and kidney damage
Diethanolamine	Cal OSHA	TWA	0.46 ppm	Skin

Engineering Controls: Depending on use, process enclosures, local exhaust ventilation, or other engineering controls may be required to keep airborne contaminants below established exposure limits.

Respiratory Protection: If engineering controls do not keep airborne concentrations below established exposure limits, follow NIOSH guidelines in determining appropriate respirator protection.

Eye Protection: Wear safety glasses with side shields (or goggles). Wear a full-face respirator, if needed.

Hand Protection: Wear chemical-resistant gloves (e.g. nitrile or latex).

Skin Protection: Wear flame resistant coveralls, lab coat, or apron to prevent skin contact.

Hygiene Measures: Always wash hands thoroughly with soap and water after handling material.

9 PHYSICAL AND CHEMICAL PROPERTIES

Color: No data available

Odor: Ammonia

Physical State: Thick liquid

Odor Threshold: No data available

pH: 11 (approximate)

Boiling Point: No data available

Melting Point: No data available

Softening Point: No data available

Flash Point: > 93°C (> 200°F) (estimated)

Evaporation Rate: No data available

Flammability Limit – Upper (vol %): No data available

Flammability Limit – Lower (vol %): No data available

Vapor Pressure: No data available

Vapor Density (Air=1): No data available

Specific Gravity: 0.988

Density: 8.237 lb/gal

Solubility in Water: Soluble

Partition Coefficient (n-Octanol/water): No data available

Autoignition Temperature: No data available

Decomposition Temperature: No data available

Viscosity: No data available

Volatiles: No data available

10 STABILITY AND REACTIVITY

Stability: Stable under recommended handling and storage conditions.

Conditions to Avoid: Elevated temperatures

Incompatible Materials: Strong oxidizing agents, acids, metals

Hazardous Decomposition Products: Carbon oxides, oxides of nitrogen, oxides of sulfur, ammonia

Hazardous Polymerizations: Will not occur.

11 TOXICOLOGICAL INFORMATION

Specified Substances**Acute Toxicity:**

Chemical Name	Test Results
Ammonia	Dermal LD50 (Rat): 4840 mg/m ³ /60M
Ammonia	Inhalation LC50 (Rat): 2000 ppm/4H
Ethylene glycol monobutyl ether	Eye (Rabbit): 100 mg/24H – Moderate irritation
Ethylene glycol monobutyl ether	Skin (Rabbit): 500 mg open – Mild irritation
Ethylene glycol monobutyl ether	Dermal LD50 (Rabbit): 220 mg/kg
Ethylene glycol monobutyl ether	Inhalation LC50 (Rat): 450 ppm/4H
Ethylene glycol monobutyl ether	Oral LD50 (Rat): 250 mg/kg
Dodecyl benzene sulfonic acid	Oral LD50 (Rat): 650 mg/kg
Triethanolamine	Eye (Rabbit): 20 mg – Severe irritation
Triethanolamine	Skin (Human): 15mg/3D-I – Mild irritation
Triethanolamine	Dermal LD50 (Rabbit): >20 mL/kg
Triethanolamine	Oral LD50 (Rat): 4920 uL/kg
Diethanolamine	Eye (Rabbit): 750 ug/24H – Severe irritation
Diethanolamine	Skin (Rabbit): 500 mg/24H – Mild irritation
Diethanolamine	Dermal LD50 (Guinea Pig): 11900 uL/kg
Diethanolamine	Oral LD50 (Rat): 620 uL/kg

Chronic Toxicity: Long term exposure to this product may cause blood, liver, central nervous system and kidney damage based on animal data for the components.

Listed Carcinogens:

Chemical Name	IARC	NTP	OSHA	ACGIH
Ethylene glycol monobutyl ether	--	--	--	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans
Diethanolamine	--	--	--	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans

12 ECOLOGICAL INFORMATION

Acute Toxicity: No data available.

Degradability: No data available.

Bioaccumulation: No data available.

13 DISPOSAL CONSIDERATIONS

General Information: Dispose in accordance with applicable federal, state, and local regulations. Incinerate.

Disposal Methods: No specific disposal method required.

Container: Empty containers of this material may contain residual liquid, vapors or dust. Precautions previously cited should be observed with such containers. Follow label warnings even after container is emptied

14 TRANSPORT INFORMATION

DOT: Not regulated

TDG: Not regulated

IATA: Not regulated

IMDG: Not regulated

15 REGULATORY INFORMATION

Canadian Controlled Products Regulations: This product has been classified according to the hazard criteria of the Canadian Controlled Products Regulations, Section 33, and the MSDS contains all required information.

WHMIS Classification: D1B, D2B

Inventory Status

One or more components are not listed on the following inventories: TSCA, DSL

US Regulations

CERCLA Hazardous Substance List (40 CFR 302.4):

Component	Reportable Quantity
Glycol ethers	--
Ammonia, anhydrous	100 lbs
Diethanolamine	100 lbs
Dodecyl benzene sulfonic acid	1000 lbs

SARA Title III (Emergency Planning & Community Right-to-Know Act (EPCRA))

Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A):

Component	CAS No.	Concentration
Ammonia, anhydrous	7664-41-7	< 3.5%

Section 311/312 (40 CFR 370):

Acute (Immediate) Chronic (Delayed) Fire Reactive Pressure Generating

Section 313 Toxic Release Inventory (40 CFR 372):

Component	CAS No.	Concentration
Diethylene glycol monobutyl ether (as certain glycol ethers)	111-76-2	< 4.5%
Ammonia, anhydrous	7664-41-7	< 3.5%

Clean Air Act (CAA) Section 112, 1990 Amendments, Statutory Hazardous Air Pollutants:

Diethanolamine

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): Ammonia, anhydrous**Clean Water Act Section 307 Toxic Pollutants (40 CFR 401.15):** None**Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3):** Dodecyl benzene sulfonic acid; Ammonia**Drug Enforcement Act:****Drug Enforcement Administration (21 CFR 1310.02(b) and 1310.04 (f)(2)):** None**Drug Enforcement Administration (21 CFR 1310.12(c)):** None**TSCA:****TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) (revised, effective January 16, 2007):** None**ITAR, US Munitions List, Category V, Explosives & Energetic Materials, Propellants, Incendiary Agents and their Constituents (22 CFR 121):** None**Homeland Security:****ATF List of Explosive Materials (27 CFR 555.23 as amended):** None**DHS Chemical Facility Anti-Terrorism Standards (6 CFR 27, Appendix A):** Triethanolamine; Ammonia (anhydrous)**State Regulations****California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):** None**Massachusetts Right-To-Know List:** Ethylene glycol monobutyl ether; Dodecyl benzene sulfonic acid; Ammonia (anhydrous); Triethanolamine**Michigan Critical Materials List (Michigan Natural Resources and Environmental Protection Act (Act. 451 of 1994)):** None**Minnesota Hazardous Substances List:** Ethylene glycol monobutyl ether; Ammonia (anhydrous); Triethanolamine**New Jersey Right-To-Know List:** Ethylene glycol monobutyl ether; Dodecyl benzene sulfonic acid; Ammonia (anhydrous); Triethanolamine**Pennsylvania Right-To-Know List:** Ethylene glycol monobutyl ether; Dodecyl benzene sulfonic acid; Ammonia (anhydrous); Triethanolamine**Rhode Island Right-To-Know List:** Ethylene glycol monobutyl ether; Ammonia (anhydrous); Triethanolamine

Hazard Ratings

	Health Hazard	Fire Hazard	Reactivity Hazard	Special Hazard
NFPA	2	1	0	--

	Health Hazard	Fire Hazard	Reactivity Hazard
HMIS	2*	1	0

0 – Minimal; 1 – Slight; 2 – Moderate; 3 – Serious; 4 – Severe; * – Chronic health effect

Revision Information: New SDS format

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