



Safety Data Sheet

Remedy Specialized Protect Zinc Spray Skin Protectant

Section 1. Identification

Product Identifier Remedy Specialized Protect Zinc Spray Skin Protectant
Synonyms MSD_SDS0557; MSC0925ZS
Manufacturer Stock MSC0925ZS
Numbers

Recommended use OTC Skin Protectant
Uses advised against Avoid eye or face exposure, apply to affected region of
BODY.

Manufacturer Contact
Address Medline
3 Lakes Drive
Northfield, IL, 60093
US

Phone
(800) 633-5463

Emergency Phone
(800) 424-9300
CHEMTREC

Fax
(847) 643-4436

Website
www.Medline.com

Section 2. Hazards Identification

Classification GASES UNDER PRESSURE - Liquefied gas
Simple asphyxiants - Yes
Warning

Signal Word
Pictogram



Hazard Statements Contains gas under pressure; may explode if heated
May displace oxygen and cause rapid suffocation

Precautionary Statements

Response N/A
Prevention N/A
Storage Protect from sunlight. Store in a well-ventilated place.
Disposal N/A

Ingredients of unknown toxicity 0%

Hazards not Otherwise Classified

No Data Available

Section 3. Ingredients

CAS	Ingredient Name	Weight %
29118-24-9	HFO-1234ze	20% - 30%
1314-13-2	Zinc oxide	10% - 20%
36653-82-4	Cetyl alcohol	0.1% - 1%
122-99-6	Phenoxyethanol	0.1% - 1%

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First-Aid Measures

Description of first aid measures: Inhalation: Remove to fresh air.
Eye contact: Rinse thoroughly with plenty of water, also under the eyelids.
Skin contact: In case of contact with liquefied gas, thaw frosted parts with lukewarm water. DO NOT USE HOT WATER.
Ingestion: Rinse mouth.

Most important symptoms and effects, both acute and delayed: Symptoms: Frostbite. Suffocation.
Effects of Exposure: No information available.

Indication of Any Immediate Medical Attention and Special Treatment Needed: Notes to Physician: Treat symptomatically.

Section 5. Fire Fighting Measures

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable Extinguishing Media DO NOT EXTINGUISH A LEAKING GAS FIRE UNLESS LEAK CAN BE STOPPED.

Specific hazards arising from the chemical:	Cylinders may rupture under extreme heat. Damaged cylinders should be handled only by specialists. Containers may explode when heated. Ruptured cylinders may rocket.
Explosion data:	Sensitivity to mechanical impact: Yes Sensitivity to static discharge: None
Special protective equipment for fire-fighters:	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:	Avoid contact with eyes and clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. See section 8 for more information. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Contents under pressure. Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.
Methods for Containment:	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up:	Pick up and transfer to properly labeled containers.
Prevention of secondary hazards:	Clean contaminated objects and areas thoroughly observing environmental regulations.

Section 7. Handling and Storage

Precautions for safe handling:	Handle in accordance with good industrial hygiene and safety practice. Gases under pressure with liquified gas. Pressurized container: Do not pierce or burn, even after use. Avoid contact with eyes and clothing. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Contents under pressure. Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.
Conditions for safe storage, including any incompatibilities:	Gases under pressure: liquified gas. Pressurized container: Do not pierce or burn, even after use. Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from sunlight.

Section 8. Exposure Controls/Personal Protection

Occupational Exposure Limits	Ingredient Name	ACGIH TLV	OSHA PEL	STEL
	HFO-1234ze	N/A	N/A	N/A

Zinc oxide	Respirable Fraction: TWA: 2 mg/m3 STEL: 10 mg/m3	Total Dust: 15 mg/m3 TWA: 10 mg/m3 Respirable Fraction: 5 mg/m3 TWA: 5 mg/m3	N/A
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Cetyl alcohol	N/A	N/A	N/A
Phenoxyethanol	N/A	N/A	N/A

Personal Protective Equipment

Exposure Limits:

N/A

The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here.

Appropriate engineering controls:

Engineering Controls: Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection: No special protective equipment required.

Hand protection: No special protective equipment required.

Skin and body protection: No special protective equipment required.

Respiratory protection: No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations: Handle in accordance with good industrial hygiene and safety practice.

Section 9. Physical and Chemical Properties

Physical State	Aerosol
Color	Liquid Spray/Aerosol which dispensed as a bright white, creamy lotion
Odor	Odorless to slight Metallic
Odor Threshold	N.D.
Solubility	Insoluble in water
Partition coefficient Water/n-octanol	N/A
VOC%	N/A
Viscosity	N/A
Specific Gravity	N/A
Density lbs/Gal	N/A

Pounds per Cubic Foot	N/A
Flash Point	Above boiling point
FP Method	N/A
pH	N/A
Melting Point	N/A
Boiling Point	N/A
Boiling Range	N/A
LEL	N/A
UEL	N/A
Evaporation Rate	N/A
Flammability	Not flammable. Heat of Combustion = -15
Decomposition Temperature	N/A
Auto-ignition Temperature	N/A
Vapor Pressure	N/A
Vapor Density	N/A

Relative density: 1.3
Dynamic viscosity: < 2,000 cP

Section 10. Stability and Reactivity

Reactivity: Pressurized gas liquified in aerosol canisters, so precautions for Aerosols should be applied.

Chemical stability: Stable under normal conditions.

Possibility of hazardous reactions: None under normal processing.

Conditions to avoid: Temperatures above 50 °C / 122 °F. Keep away from open flames, hot surfaces and sources of ignition. Protect from sunlight.

Incompatible materials: Strong oxidizing agents, strong acids, and strong bases.

Hazardous Decomposition Products: Carbon oxides.

Section 11. Toxicological Information

Information on likely routes of exposure: Inhalation: Suffocation.
Eye contact: Specific test data for the substance or mixture is not available.
Skin contact: Specific test data for the substance or mixture is not available.
Ingestion: Specific test data for the substance or mixture is not available.

Symptoms related to the physical, chemical and toxicological characteristics: Frostbite. Suffocation.

Acute toxicity: Numerical measures of toxicity: Based on available data, the classification criteria are not met.

The following values are calculated based on chapter 3.1 of the GHS document:

ATEmix (oral): >5,000 mg/kg
ATEmix (dermal): > 4,000 mg/kg
ATEmix (inhalation-dust/mist): > 5 mg/l
Component Information: HFO-1234ze CAS No. 29118-24-9
Oral LD50: N.D.
Dermal LD50: N.D.
Inhalation LC50: > 207000 ppm (Rat) 4 h

Zinc oxide CAS No. 1314-13-2
Oral LD50: > 5000 mg/kg (Rat)
Dermal LD50: > 2000 mg/kg (Rat)
Inhalation LC50: > 5700 mg/m3 (Rat) 4 h

Phenoxyethanol CAS No. 122-99-6
Oral LD50: = 1850 mg/kg (Rat)
Dermal LD50: = 5 mL/kg (Rabbit)
Inhalation LC50: > 0.057 mg/L (Rat) 8 h

Cetyl alcohol CAS No. 36653-82-4
Oral LD50: > 5 g/kg (Rat)
Dermal LD50: = 11300 mg/kg (Rabbit)
Inhalation LC50: > 1.5 mg/L (Rat) 4 h

Delayed and immediate effects as well as chronic effects from exposure: Skin corrosion/irritation No information available.

Serious eye damage/eye irritation No information available.

Respiratory or skin sensitization No information available.

Germ cell mutagenicity No information available.

Carcinogenicity No information available.

Reproductive toxicity No information available.

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Target organ effects Kidney. Respiratory system. Eyes. Skin.

Aspiration hazard No information available.

Other adverse effects No information available.

Interactive effects No information available.

Section 12. Ecological Information

Ecotoxicity:	Avoid release to the environment. Toxic to aquatic life with long lasting effects.
Chemical name:	Zinc oxide CAS No. 1314-13-2 Algae/aquatic plants: N.D. Fish: LC50: =1.55mg/L (96h, Danio rerio) Toxicity to microorganisms: N.D. Crustacea: N.D. Phenoxyethanol CAS No. 122-99-6 Algae/aquatic plants: EC50: >500mg/L (72h, Desmodesmus subspicatus) Fish: LC50: 337 - 352mg/L (96h, Pimephales promelas) LC50: =366mg/L (96h, Pimephales promelas) Toxicity to microorganisms: N.D. Crustacea: EC50: >500mg/L (48h, Daphnia magna) Cetyl alcohol CAS No. 36653-82-4 Algae/aquatic plants: N.D. Fish: LC50: >0.4mg/L (96h, Oncorhynchus mykiss) Toxicity to microorganisms: N.D. Crustacea: N.D.
Persistence and Degradability:	No information available.
Bioaccumulation:	There is no data for this product.
Component Information:	Phenoxyethanol CAS No. 122-99-6 Partition coefficient: 1.2 Cetyl alcohol CAS No. 36653-82-4 Partition coefficient: 6.7
Mobility:	No information available.
Other adverse effects:	No information available.

Section 13. Disposal

Waste from residues/unused products:	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging:	Do not reuse empty containers.
California Hazardous Waste Status:	This product contains one or more substances that are listed with the State of California as a hazardous waste.

Section 14. Transport Information

UN Number	8000
UN Proper Shipping Name	CONSUMER COMMODITY
DOT Classification	9
Packing Group	N/A
DOT:	Level 1 Aerosol, DOT cannot exceed gross weight of 30 kg (66 lbs) per package, shipped in limited quantity.

DOT ERG CODE:	171
DOT Marine Pollutant:	I
IATA - UN Number:	ID8000
IATA - Proper Shipping Name:	Consumer Commodity
IATA - Hazard Class:	9
IATA - Special Provisions:	A112
IATA ERG Code:	9L

Section 15. Regulatory Information

SARA 311/312:	Refer to Section 2 of the SDS.
SARA 313:	Zinc Compounds.
New Jersey Right to Know Components:	ZINC OXIDE.
Rhode Island Right to Know Components:	Zinc oxide.
Pennsylvania Right to Know Components:	ZINC OXIDE.

Section 16. Other Information

Revision Date	1/24/2024
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Legend	N.A. - Not Applicable N.E. - Not Established N.D. - Not Determined
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Additional Information:	The information contained herein is furnished without warranty or legal responsibility of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determination of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees.
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