

SAFETY DATA SHEET

1. Identification

Product identifier: FROST-100-1G

Frost Series Pre-treatment

For Dark Garments Only 1 Gallon

Manufacturer/Supplier

Company Name: The M&R Companies

Address: 440 Medinah Road
Roselle, IL 60172 U.S.A

Telephone: +1 (800) 736-6431

Emergency telephone number:

For Hazardous Materials [or Dangerous Goods] Incident Spill, Leak, Fire, Exposure, or Accident Call Chemtrec-

Emergency Number(s): Within US and Canada: +1 (800) 424-9300 Outside US and Canada: +1 (703) 741-5970

2. Hazard(s) Identification

HAZARD SYMBOLS / STATEMENTS:

WARNING
MAY BE HARMFUL IF SWALLOWED
MAY CAUSE MILD SKIN IRRITATION
MAY CAUSE EYE IRRITATION
MAY CAUSE RESPIRATORY IRRITATION

HAZARD CLASSIFICATIONS:

<u>HAZARD CLASSIFICATIONS:</u>	<u>CATEGORY</u>	<u>INTERPRETATION</u>
ACUTE TOXICITY	5	Low
SKIN IRRITATION	3	Mild
EYE IRRITATION	3	Mild
TARGET ORGAN SYSTEMIC TOXICITY	3	Transient Respiratory Irritation Possible



PRECAUTIONARY STATEMENTS:

- CALL A POISON CENTER / PHYSICIAN IF UNWELL
- IF SKIN IRRITATION OCCURS, GET MEDICAL ADVICE
- IF IN EYES, RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES — REMOVE CONTACT LENSES
- IF EYE IRRITATION PERSISTS, GET MEDICAL ADVICE
- WASH HANDS AFTER HANDLING
- USE ONLY OUTDOORS OR IN WELL VENTILATED AREAS
- AVOID BREATHING DUST
- IF INHALED, REMOVE TO FRESH AIR AND KEEP AT REST IN A POSITION COMFORTABLE FOR BREATHING
- STORE CONTAINER TIGHTLY CLOSED
- DISPOSE OF CONTENTS / CONTAINER IN ACCORDANCE WITH NATIONAL / REGIONAL / LOCAL REGULATIONS

3. Composition/Information on Ingredients

<u>Chemical Name(s) or Synonyms</u>	<u>Material CAS Number</u>	<u>Concentration %</u>
Non-regulated ingredients	7732-18-5	45- 75%
Inorganic Salt	13477-34-4	10- 20%
Trade Secret	****	5- 15%

Composition Comments:

There are no ingredients present which, within the current knowledge of the manufacturer and in the concentrations applicable, are classified as hazardous to health or the environment.

4. First-aid measures

General information: Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance. May be harmful if swallowed. Avoid breathing vapor or dust. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Eye contact may cause eye irritation with discomfort, tearing or blurring of vision. Repeated skin exposure to large quantities may result in absorption of harmful amounts. Wash thoroughly after handling.

ADDITIONAL HEALTH EFFECTS

Since this mixture has not been tested as a whole to determine the hazards by all routes of exposure, information is provided for each hazardous component of the mixture to meet requirements of OSHA's Hazard Communication Standard (29 CFR 1910.1200). The effects noted occur from exposure to the pure component unless otherwise noted.

INFORMATION FOR COMPONENTS

INORGANIC SALT

After inhalation: Move victim to fresh air. Seek medical attention if irritation persists.

After skin contact: Wash affected areas with soap and water. Seek medical attention if irritation persists. Wash contaminated clothing before re-use.

After eye contact: Immediately flush with water for at least 20 minutes. Seek medical attention if irritation persists.

After swallowing: If victim is alert and not convulsing, give one glass of water to dilute material and induce vomiting. Seek immediate medical attention

5. Fire Fighting Measures

Flash Point: >93.3 °C (>200 °F)

Method: Closed Cup

Approximate Flammable Limits in Air, % by Volume

LEL: Not Available

UEL: Not Available

Autoignition Temperature: Not Available

General Fire Hazards: In case of fire and/or explosion do not breathe fumes.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media: None.

Specific hazards arising from the chemical: During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Special fire fighting procedures: Move containers from fire area if you can do so without risk. Use water spray to keep fire-exposed containers cool. Cool containers exposed to flames with water until well after the fire is out.

Special protective equipment for fire-fighters: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

6. Accidental Release Measures

Note: Review "Fire Fighting Measures" and "Handling and Storage" sections before proceeding with clean-up. Use appropriate Personal Protective Equipment during clean-up.

- Safeguards (Personnel)** : Avoid contact with skin, eyes, and clothing. Ensure adequate ventilation. Wear appropriate Personal Protective Equipment
- Spill Cleanup** : Contain spill. Soak up with absorbent, inert material. Collect and contain contaminated absorbent Material for disposal. Keep in appropriate, closed containers for disposal. Ventilate area. Clean Contaminated surface appropriate.
- Accidental Release Measures** : Prevent further leakage or spillage if safe to do so. Prevent from entering drains. Clean contaminated objects and floors appropriately while following all environmental regulations. Dispose according to local regulations.

7. Handling and Storage

Precautions for safe handling: Use personal protective equipment as required. Avoid contact with eyes, skin, and clothing. Avoid breathing mist or vapor. Wash hands thoroughly after handling.

Conditions for safe storage, including any incompatibilities: Store in a cool, dry, well-ventilated place away from incompatible materials. Do not breathe heated vapor or dust. Do not get in eyes, on skin, or clothing. Wash thoroughly after handling. Keep container tightly closed.

8. Exposure Controls/Personal Protection

Control Parameters

Occupational Exposure Limits: None of the components have assigned exposure limits.

Appropriate Engineering Controls: No data available.

Individual protection measures, such as personal protective equipment

General information: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Hygiene measures: Provide eyewash station and safety shower. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

Personal Protective Equipment

Eye/Face Protection

Wear safety glasses. Wear coverall chemical splash goggles and face shield when the possibility exists for eye and face contact due to splashing or spraying of the material.

Respirators

Respirators are not needed with proper ventilation. Wear an approved respirator (e.g., an organic vapor respirator or a self-breathing apparatus) whenever exposure to aerosol, mist, spray, fume or vapor exceed the exposure limit(s) of any chemical substance listed in this SDS.

Protective Gear

If there is potential for significant dermal contact wear appropriate impervious clothing and gloves.

Applicable Exposure Limits and Exposure Data

INORGANIC SALT

PEL (OSHA): None Established
TLV (ACGIH): None Established
AEL * (Internal): 5 mg/m³, 8 Hr. TWA, total dust
LD50 (rat, oral): 3,900 mg/kg (supplier)
LC50 (rat, inhalation/4 hr.): No data available

9. Physical and Chemical Properties

Appearance

Physical state:	Liquid
Form:	Liquid
Color:	Translucent
Odor:	Odorless

10. Stability and Reactivity

Reactivity:	No dangerous reaction known under conditions of normal use.
Chemical Stability:	Material is stable under normal conditions.
Possibility of Hazardous Reactions:	Hazardous polymerization does not occur.
Conditions to Avoid:	Contact with incompatible materials.
Incompatible Materials:	Strong oxidizing agents.
Hazardous Decomposition Products:	Nitrogen Oxides Oxides of Carbon.

11. Toxicological Information

Information on likely routes of exposure

Ingestion: May be harmful if swallowed.

Inhalation: May be harmful if inhaled.

Skin Contact: May cause irritation.

Eye contact: May irritate eyes.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure).

Oral Product: No data available.

Dermal Product: No data available.

Inhalation Product: No data available.

Repeated Dose Toxicity Product: No data available.

Skin Corrosion/Irritation Product: May cause skin irritation.

Serious Eye Damage/Eye Irritation Product: May irritate eyes.

Respiratory or Skin Sensitization Product: Not a skin sensitizer.

Carcinogenicity

Product: This substance has no evidence of carcinogenic properties.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans: No carcinogenic components identified.

US. National Toxicology Program (NTP) Report on Carcinogens: No carcinogenic components identified.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): No carcinogenic components identified.

Germ Cell Mutagenicity

In vitro Product: No mutagenic components identified

In vivo Product: No mutagenic components identified.

Specific Target Organ Toxicity - Single Exposure Product: No data available.

Specific Target Organ Toxicity - Repeated Exposure Product: No data available.

Aspiration Hazard Product: Not classified.

Other Effects: None known.

12. Ecological Information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish Product: No data available.

Aquatic Invertebrates Product: No data available.

Toxicity to Aquatic Plants Product: No data available.

Persistence and Degradability

Biodegradation Product: There are no data on the degradability of this product.

BOD/COD Ratio Product: No data available.

Bioconcentration Factor (BCF)Product: No data available on bioaccumulation.

Partition Coefficient n-octanol / water (log Kow) Product: No data available.

13. Disposal Considerations

Disposal instructions: Discharge, treatment, or disposal may be subject to national, state, or local laws. Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Contaminated Packaging: Since emptied containers retain product residue, follow label warnings even after container is emptied.

14. Transport Information

DOT: Not regulated.

IMDG: Not regulated.

IATA: Not regulated.

15. Regulatory Information

US Federal Regulations

- TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)** : Not regulated.
- US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)** : None present or none present in regulated quantities.
- CERCLA Hazardous Substance List (40 CFR 302.4)** : None present or none present in regulated quantities.
- SARA 302 Extremely Hazardous Substance** : None present or none present in regulated quantities.
- SARA 304 Emergency Release Notification** : None present or none present in regulated quantities.
- SARA 311/312 Hazardous Chemical** : None present or none present in regulated quantities.
- SARA 313 (TRI Reporting)** : None present or none present in regulated quantities.
- Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)** : None present or none present in regulated quantities.
- Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**: None present or none present in regulated quantities.
- US TSCA Inventory**: On or in compliance with the inventory.
- International Inventory Status**: On or in compliance with the inventory.

16. Other Information, Including Date of Preparation or Last Revision

NFPA Hazard ID

0	Flammability
1	Health
0	Reactivity
0	Special hazard

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

- Issue Date:** 5/28/15
- Revision Date:** 02/28/19
- Version #:** 2.5
- Further Information:** No data available.

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