

Frontier Specialty Chemicals Inc.

Safety Data Sheet

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<http://www.frontiersci.com>

1. PRODUCT IDENTIFICATION OF SUBSTANCE/MIXTURE AND SUPPLIER INFORMATION

Product form: Solid
Product Name: Mn(III) Protoporphyrin IX chloride
CAS No.: No data available
Formula: C₃₄H₃₂ClMnN₄O₄
FSCI Catalog #: MnP562-9
Emergency Tel No: Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION---Label Information

Signal Word	WARNING
Hazard Statement(s)	H315: Causes skin irritation H319: Causes serious eye irritation H335: May cause respiratory irritation



General Risk: Avoid inhalation, contact with skin or eyes, and ingestion. Always use personal protective Equipment when handling this compound. (Additional information may be included in SDS)

Precautionary Statements

P233-Keep container tightly closed.
P261-Avoid breathing dust/ fume/ gas/ vapors/ spray.
P264-Wash hands thoroughly after handling.
P274-Use only outdoors or in a well-ventilated area.
P280-Wear Impervious gloves/ protective clothing/ eye protection/ face protection.
P302-IF ON SKIN Wash with plenty of soap and water.
P304-IF INHALED Remove victim to fresh air and keep at rest in a comfortable position for breathing.
P305-IF IN EYES Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P312-Call a POISON CENTER or doctor/physician if you feel unwell.
P313-IF exposed or concerned: Get medical advice/attention.

3. COMPOSITION / Information on INGREDIENTS

Product Name: Mn(III) Protoporphyrin IX chloride

CAS No.: No data available

Formula C₃₄H₃₂ClMnN₄O₄

Appearance: No data available

4. FIRST AID MEASURES

- Inhalation:** Remove to fresh air. In cases of serious discomfort, seek medical attention. If not breathing, trained personnel should administer oxygen or artificial respiration.
- Eye Contact:** Flush with copious amounts of water for at least 20 minutes. Seek immediate medical Attention.
- Skin Contact:** Remove contaminated clothing. Rinse affected area with copious amounts of water. Rinse thoroughly. In case of skin damage or persistent irritation, seek immediate medical attention. Show the physician the container details.
- Ingestion:** Call a physician or poison control center immediately. Induce vomiting only if instructed to do so by medical personnel. Seek immediate medical attention.

5. FIRE FIGHTING MEASURES

- Extinguishing Medium:** Use firefighting measures which suit the environment and take into account other materials which may be involved. Use carbon dioxide or dry powder for fires involving this material. In general, water-based extinguishers are not recommended for fires involving organic materials.
- Protective Equipment:** Wear self-contained breathing apparatus and protective clothing. Most compounds emit toxic Gases when burning.

6. ACCIDENTAL RELEASE MEASURES

- Personal Protection:** Avoid inhalation or contact of spilled material with skin or clothing. Wear protective clothing. Keep unprotected persons away.
- Environmental Protection:** Take precautions to ensure product does not contaminate the ground or enter the drainage system.
- Collection:** Contain or absorb, as appropriate. Minimize dust generation, where applicable. Dispose According to Section 13.

7. HANDLING AND STORAGE

- Handling:** Chemicals should be used only by those trained in handling potentially hazardous materials. Impervious gloves, eye protection and protective clothing should be worn. Operations Should be carried out in efficient fume hood or equivalent system. Avoid breathing or dust, Vapor, mist, or gas.
- Storage:** Store in a cool dry, well-ventilated area. Store in a tightly sealed container. Protect from moisture, heat, ignition sources, and incompatible substances. Protect from direct light. See stability and reactivity for more details on incompatible substances if available.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Respiratory:	Avoid inhalation of product. Handle in an efficient fume hood or equivalent system. Keep unprotected persons away.
Eye: Protection:	Avoid eye contact. Wear safety glasses, goggles or, for larger quantities, a full-face shield. system.
Hands and Body:	Avoid skin contact. Wear Impervious gloves and, for larger quantities, a full arm and body protection. Wash hands thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	No data available
Boiling Point:	Not specified
Melting Point:	Not specified
Water Solubility:	Dilute base, DMF, DMSO, pyridine
Flash Point:	No data available
Formula Weight:	651.03
Density:	No data available
Lower Explosive Limit:	No data available
Upper Explosive Limit:	No data available
PEL:	No data available
Auto Ignition Point:	No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity:	No data available
10.2 Chemical stability:	No data available
10.3 Possibility of hazardous reactions:	No data available
10.4 Conditions to avoid:	No data available
10.5 Incompatible materials:	No data available
10.6 Hazardous decomposition products	Other decomposition products - No data available
10.7 Hazardous decomposition products formed under fire conditions.	- No data available

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects: The full toxicological effects of this compound have not been studied. However, as a minimum precaution, it should be considered to be harmful. Hazardous decomposition products may occur when this compound comes in contact with other chemicals, fire, or water.

Acute toxicity:	No data available
Skin corrosion/irritation:	No data available
Ames test Result:	No data available

TOXICOLOGICAL INFORMATION Continued

Carcinogenicity IARC:	No data available
NTP:	No data available
OSHA:	No data available
Reproductive toxicity:	No data available
Specific target organ toxicity:	No data available
Single exposure Inhalation:	No data available
Repeated exposure:	No data available
Aspiration hazard:	No data available

12. ECOLOGICAL EFFECTS

Take care to prevent chemicals from entering the ground, water bodies, or drainage systems.

13. DISPOSAL CONSIDERATIONS

Disposal should be carried out via an approved contractor according to all federal, state and local regulations.

14. TRANSPORT INFORMATION

UN Number:	No data available
Packing Group:	No data available
Hazard Class:	No data
DOT: Ship Name:	No data
Other Information:	No data

15. REGULATORY INFORMATION

U.S. Federal regulations: None available

**SARA 313 Reportable Chemicals
Form R – Reporting requirements**

Product name:

CAS/313 Category Codes

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16. OTHER INFORMATION

The information on this Safety Data Sheet is correct to the best knowledge as of the date of publication. This information should be used only as a guide and is not a guarantee of any specific properties. All chemicals should be handled by qualified personnel using proper handling precautions. FSCI cannot accept liability for any loss, damage, or injury that results from the use of this chemical.

THIS SUBSTANCE IS FOR RESEARCH AND DEVELOPMENT PURPOSES ONLY.