



Safety Data Sheet
According to the (US) Hazard Communication Standard (29 CFR 1910.1200)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name Ferric Chloride Solution, 0.25 g/l
NCL Catalog Numbers F-10
Product Description Laboratory chemical, APHA for BOD
Supplier
NCL of Wisconsin, Inc. **Telephone:** 1-800-648-7836 **Fax:** 715-449-2454
P.O. Box 8 **Emergency Contact:** 1-800-424-9300 (Chemtrec)
Biramwood, WI 54414 **Email:** nclabs@nclabs.com

SECTION 2: HAZARDS IDENTIFICATION

GHS Classification Not classified
Signal Word Not applicable
Pictograms None
Hazard Statements Not applicable
Precautionary Statements Not applicable
Other Hazards Not Contributing to the Classification None under normal conditions.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Identity Not applicable.
Common Name Not applicable.

Mixture

| Name | CAS # | Approximate % |
|-----------------------------|------------|---------------|
| Water | 7732-18-5 | >99.9 |
| Ferric Chloride Hexahydrate | 10025-77-1 | <0.1 |

SECTION 4: FIRST AID MEASURES

Description of First Aid Measures

General First Aid Measures Never give anything by mouth to an unconscious person. Seek medical advice if you feel unwell.
If Inhaled Remove person to fresh air and keep comfortable for breathing. Allow victim to rest.
In Case of Skin Contact Remove contaminated clothing and wash exposed skin with mild soap and water. Rinse with warm water.
In Case of Eye Contact Immediately flush eyes with plenty of water. Remove contact lenses, if present and easy to do. Get medical attention if irritation develops.
If Swallowed Rinse mouth. Do NOT induce vomiting. Get medical attention if you feel unwell.

Most Important Symptoms/Effects Acute and Delayed

Not expected to present a significant hazard under normal use.

Indication of Immediate Medical Attention and Special Treatment Needed

No additional information available.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media Foam. Dry powder. Sand. Carbon dioxide. Water spray.

Unsuitable Extinguishing Media Do not use high pressure water stream.

Special Hazards Arising from the Chemical No additional information available.

Special Protective Actions for Fire-Fighters Wear self-contained breathing apparatus and protective clothing. Keep exposed containers cool with water spray.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions Use personal protective equipment (see section 8). Evacuate area of non-essential personnel. Eliminate ignition sources.

Environmental Precautions Prevent entry to surface and ground waters.

Methods and Materials for Containment and Cleaning Up Clean up spills with inert absorbent material. Collect spillage. Store away from other materials. Ensure compliance with local, state and federal regulations.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling Avoid contact with eyes and skin. Avoid breathing vapors. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.

Conditions for Safe Storage Including any Incompatibilities Keep in a tightly closed container, stored in a cool, dry, ventilated area.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters Not applicable

Appropriate Engineering Controls Provide adequate general ventilation. Maintain eye-wash fountain and quick-drench facilities in work area.

Individual Protection Measures Avoid all unnecessary exposure.

Eye/Face Protection Use chemical safety goggles and/or a full face shield where splashing is possible. Contact lenses should not be worn when working with this material. Maintain eye-wash fountain and quick-drench facilities in work area.

Skin Protection Rubber or neoprene gloves and additional protection including impervious boots, apron, or coveralls, as needed in areas of unusual exposure to prevent skin contact.

Respiratory Protection Wear appropriate mask.

Other Information Do not eat, drink or smoke when using this product.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State Liquid

Color Light brown

Odor Slightly acidic

Odor Threshold Not determined

pH Not determined

Melting Point/Freezing Point Not determined

Initial Boiling Point and Boiling Range Not determined

Flash Point Not determined

Evaporation Rate Not determined

Flammability (Solid, Gas) Not determined

Upper/Lower Flammability/Explosive Limits Not determined

Vapor Pressure Not determined

| | |
|-----------------------------------------------|------------------|
| Vapor Density | Not determined |
| Relative Density | 1.00 g/ml |
| Solubility | Soluble in water |
| Partition Coefficient: n-octanol/water | Not determined |
| Auto-Ignition Temperature | Not determined |
| Decomposition Temperature | Not determined |
| Viscosity | Not determined |

SECTION 10: STABILITY AND REACTIVITY

| | |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Reactivity | No data available |
| Chemical Stability | Stable under ordinary conditions of use and storage. |
| Possibility of Hazardous Reactions | No data available |
| Conditions to Avoid | No data available |
| Incompatible Materials | Metals, allyl chloride, sodium, potassium. Metals will corrode in ferric chloride solutions, especially aluminum and brass. |
| Hazardous Decomposition Products | When heated to decomposition, can emit toxic fumes of hydrogen chloride. |

SECTION 11: TOXICOLOGICAL INFORMATION

| | |
|------------------------------------------------------------|-------------------|
| Acute Toxicity | Not classified |
| Water (7732-18-5) | |
| LD50 oral rat | ≥90000 mg/kg |
| Skin Corrosion/Irritation | Not classified |
| Serious Eye Damage/Irritation | Not classified |
| Respiratory or Skin Sensitization | Not classified |
| Germ Cell Mutagenicity | Not classified |
| Carcinogenicity | Not classified |
| Reproductive Toxicity | Not classified |
| Specific Target Organ Toxicity (Single Exposure) | Not classified |
| Specific Target Organ Toxicity (Repeated Exposure) | Not classified |
| Aspiration Hazard | Not classified |
| Potential Adverse Human Health Effects and Symptoms | No data available |
| Other Information | Not available |

SECTION 12: ECOLOGICAL INFORMATION

| | |
|--------------------------------------|----------------|
| Toxicity | Not applicable |
| Persistence and Degradability | Not applicable |
| Bioaccumulative Potential | Not applicable |
| Mobility in Soil | Not applicable |
| Other Adverse Effects | Not applicable |

SECTION 13: DISPOSAL CONSIDERATIONS

Methods of Disposal

Disposal Recommendations Dispose of contents/containers in accordance with local, state and federal regulations.

Other Information Avoid release to the surrounding environment.

SECTION 14: TRANSPORT INFORMATION

UN Number Not applicable

UN Shipping Name Not applicable

Transport Hazard Class(es) Not applicable

Packing Group Not applicable

Environmental Hazards Not applicable

Transport in Bulk Not applicable

Other Precautions Not applicable

SECTION 15: REGULATORY INFORMATION

| | |
|---------------------------------------------------------------------------|---------|
| Ferric Chloride Hexahydrate (10025-77-1) | |
| Listed on the United States TSCA (Toxic Substances Control Act) Inventory | |
| Reportable Quantity | 1000 lb |
| Water (7732-18-5) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |

SECTION 16: OTHER INFORMATION

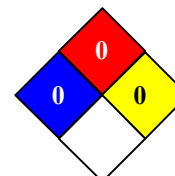
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NFPA Hazards

Health Hazard 0: Poses no health hazard.

Fire Hazard 0: Materials that will not burn.

Instability/Reactivity 0: Normally stable, even under fire exposure conditions, and are not reactive with water.



HMIS III Rating

Health 0: No significant risk to health.

Flammability 0: Materials that will not burn.

Physical Hazard 0: Materials that are normally stable.

Personal Protection B

| | |
|----------------------------|----------|
| F-10 | |
| Health | 0 |
| Flammability | 0 |
| Physical Hazard | 0 |
| Personal Protection | B |

The information contained herein is provided in good faith and is believed to be correct as of the date hereof. However, NCL of Wisconsin, Inc. makes no representation as to the comprehensiveness or accuracy of the information. It is expected that individuals receiving the information will exercise their independent judgment in determining its appropriateness for their conditions of use. Accordingly, NCL of Wisconsin, Inc. will not be responsible for damages of any kind resulting from the use of or reliance upon such information.

END OF SAFETY DATA SHEET