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## MATERIAL SAFETY DATA SHEET

Revision Date: 16/04/2019

Transport/Fire Emergency: **000** (Emergency Services)  
Medical Emergency: **131126** (Poisons information)

### Ferric Chloride Crystals

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION	
PRODUCT NAME:	Ferric Chloride Crystals
OTHER NAMES:	Iron Perchloride Iron (III) Chloride Ferric Chloride, Anhydrous
APPLICATION OF SUBSTANCE:	Etchant/cleaner.
MANUFACTURED BY:	Graphic Chemical & Ink Company P.O. Box 7027 728 North Yale Villa Park, IL 60181
CONTACT NUMBERS:	800-535-5053
EMERGENCY CONTACTS:	Poisons Information Centre Westmead NSW 1800-251525 131126  Chemcall Australia 1800-127406 +64-4-9179888

2. HAZARDOUS INFORMATION	
This product is considered a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.	
MANUFACTURER'S CODE:	11440,11445
UN NUMBER:	1773
DANGEROUS GOODS CLASS AND SUBSIDIARY RISK:	N/A
HAZCHEM CODE:	2X
POISONS SCHEDULE NUMBER:	N/A
PACKAGING GROUP:	III
EPG:	8A1
CLASS:	8

3. COMPOSITION / INFORMATION ON INGREDIENTS	
Ferric Chloride 95.5%	
4. FIRST AID MEASURES	
GENERAL:	Treat symptomatically. Can cause corneal burns. No information available on medical conditions which are aggravated from exposure to this product.
INHALATION:	Remove victim from exposure; avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.  <b>Material may be an irritant to mucous membranes and respiratory tract.</b>
EYE CONTACT:	Immediately irrigate with copious quantities of water for 15 minutes. Eyelids to be held open. Remove clothing if contaminated and wash skin. Urgently seek medical assistance. Transport to hospital or medical centre.  <b>Highly corrosive to eyes and may injure the cornea. Causes severe burns. May cause severe irritation with corneal injury which may result in permanent impairment of vision, even blindness. Chemical burns may occur. Vapour may cause eye irritation experienced as mild discomfort and redness.</b>
SKIN CONTACT:	If skin or hair contact occurs, immediately remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by the Poisons information Centre or a doctor, or for 15 minutes before transporting to doctor or hospital.  <b>Highly corrosive to skin - Causes severe burns. Brief contact may cause skin burns. May not produce an immediate burning sensation upon contact, delaying the awareness that contact has occurred. Symptoms may include redness, burning, and swelling of skin, burns, and other skin damage.</b>
INGESTION:	Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by mouth to an unconscious patient. If vomiting occurs give further water. Seek medical advise.  <b>Harmful by ingestion. Swallowing can result in nausea, vomiting, diarrhoea, abdominal pain and chemical burns to the gastrointestinal tract. Causes severe burns. Swallowing may result in gastro-intestinal irritation and ulceration. May also result in burns of the mouth and throat. Aspiration into the lungs may occur during ingestion or vomiting, causing tissue damage or lung injury.</b>
5. FIRE FIGHTING MEASURES	
EXTINGUISHING MEDIA:	Use appropriate extinguishing media most suitable for surrounding fire conditions.
DO NOT USE:	N/A
DEGREE OF FIRE RISK:	Does not burn. Not considered to be a fire hazard or an explosion hazard.

<b>5. FIRE FIGHTING MEASURES</b>	
RECOMMENDATIONS:	N/A
<b>6. ACCIDENTAL RELEASE MEASURES</b>	
Sweep up excess and flush area with water. Dilute to 1% and flush down drain with large volumes of water.	
<b>7. HANDLING AND STORAGE</b>	
HANDLING:	Ensure an eye bath and safety shower are available and ready for use. Observe good personal hygiene practices and recommended procedures. Wash thoroughly after handling. Take precautionary measures against static discharges by bonding and grounding equipment. Avoid contact with eyes, skin and clothing. Do not inhale vapours.
STORAGE:	Store in a cool, dry, well-ventilated area. Keep containers tightly closed when not in use. Inspect regularly for damage or leaks. Protect against physical damage. Store away from incompatible materials. Protect from sunlight, moisture, and static discharges. Containers should be of acid resistant material.  Container type/packaging must comply with all applicable local legislation. Store in original packaging as approved by manufacturer. Do NOT use carbon steel. Containers should be of acid resistant material.
<b>8. EXPOSURE CONTROL AND PERSONAL PROTECTION</b>	
ENGINEERING MEASURES:	Use with exhaust.
<i>PERSONAL PROTECTION</i>	
RESPIRATORY PROTECTION:	Wear an approved respirator where dusts/vapours are generated and engineering controls are inadequate (AS1715/1716).
HAND PROTECTION:	Wear chemical resistant gloves (AS2161).
EYE PROTECTION:	Tightly fitting splash goggles (AS1336/1337).
SKIN PROTECTION:	Corrosion-resistant coveralls and safety footwear (AS3765/2210).
<b>9. PHYSICAL AND CHEMICAL PROPERTIES</b>	
APPEARANCE:	Greenish Black Crystals
FLASH POINT:	N/A
BOILING POINT:	319 °C
VAPOUR PRESSURE:	1
VAPOUR DENSITY:	Heavier than air, 5.61
SPECIFIC GRAVITY:	2.9
SOLUBILITY IN WATER:	Soluble in water, 91.8 g/100g water at 20°C

## 9. PHYSICAL AND CHEMICAL PROPERTIES

MELTING POINT:	306 °C (partly decomposes)
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## 10. STABILITY AND REACTIVITY

This material is thermally stable when stored and used as directed.

Avoid contact with metals, excessive heat, exposure to light, moisture, static discharges and high temperatures. Incompatible with oxidising agents and strong bases.

## 11. TOXICOLOGICAL INFORMATION

No toxicity data for this specific product.

No carcinogenic data available.

## 12. ECOLOGICAL INFORMATION

Completely soluble in water. Do NOT let product reach waterways, drains and sewers.

## 13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with all local, state and federal regulations. All empty packaging should be disposed of in accordance with Local, State, and Federal Regulations or recycled/reconditioned at an approved facility.

Contact a specialist disposal company or the local waste regulator for advice. Incinerate at an approved site following all local regulations. This material may be suitable for approved landfill.

## 14. TRANSPORT INFORMATION

Class 8 corrosive

## 15. REGULATORY INFORMATION

Poisons schedule 5

## 16. OTHER INFORMATION

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information contained herein.