

===== Product Identification =====

Product ID:FERRIC CHLORIDE

MSDS Date:08/07/1985

FSC:6810

NIIN:00-299-8503

MSDS Number: BMSWX

=== Responsible Party ===

Company Name:MALLINCKRODT INC., SCIENCE PRODUCTS DIVISION

Address:PARIS BYPASS

Box:M

City:PARIS

State:KY

ZIP:40361

Country:US

Info Phone Num:606-987-7000

Emergency Phone Num:606-987-7000/314-982-5000

Preparer's Name:SSH

CAGE:6

2910

=== Contractor Identification ===

Company Name:MALLINCKRODT SPECIALTY CHEMICALS CO

Address:222 RED SCHOOL LANE

Box:City:PHILLIPSBURG

State:NJ

ZIP:08865

Country:US

Phone:908-859-2151

CAGE:62910

===== Composition/Information on Ingredients =====

Ingred Name:FERRIC (III) CHLORIDE HEXAHYDRATE

CAS:10025-77-1

RTECS #:NO5425000

Fraction by Wt: >98%

Other REC Limits:NONE DETERMINED

OSHA PEL:1 MG/M3 (FE)

ACGIH TLV:1 MG/M3 (FE); 8990

===== Hazards Identification

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LD50 LC50 Mixture:ORAL LD50 (RAT) IS 1872 MG/KG  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:HARMFUL IF SWALLOWED, INHALED OR  
ABSORBED THROUGH SKIN. MATERIAL IS EXTREMELY DESTRUCTIVE TO TISSUE  
OF THE MUCOUS MEMBRANES & UPPER RESPIRATORY TRACT, EYES & SKIN.  
INHALATION MAY BE FATAL AS A RESULT OF SPASM, INFLAMMATION & EDEMA  
OF THE LARYNX & BRONCHI, CHEMICAL PNEUMONITIS & PULMONARY EDEMA.  
Effects of Overexposure:SYMPTOMS OF EXPOSURE MAY INCLUDE BURNING  
SENSATION, COUGHING, WHEEZING, LARYNGITIS, SHORTNESS OF BREATH,  
HEADACHE, NAUSEA & VOMITING. CAUSES SEVERE EYE IRRITATION.  
Medical Cond Aggravated by Exposure:NONE SPECIFIED.

===== First Aid Measures =====

First Aid:INHALE-REMOVE TO FRESH AIR. PERFORM CPR OR GIVE OXYGEN IF  
BREATHING IS DIFFICULT. SEE DOCTOR. INGEST-IMMEDIATELY INDUCE VOMIT  
BY GIVING  
2 GLASSES OF WATER. GIVE NOTHING BY MOUTH IF UNCONSCIOUS.  
SEE DOCTOR IMMEDIATELY. SKIN/EYES-FLUSH IMMEDIATELY WITH LARGE  
QUANTITY OF WATER FOR 15 MIN.REMOVE CONTAMINATED CLOTHES. SEE DOCTOR.

===== Fire Fighting Measures =====

Flash Point:NONE  
Extinguishing Media:EXTINGUISH WITH AGENT SUITABLE FOR SURROUNDING  
FIRE.  
Fire Fighting Procedures:WEAR SELF CONTAINED BREATHING APPARATUS, COOL  
FIRE EXPOSED CONTAINERS WITH WATER.  
Unusual Fire/Explosion Hazard:NOT CONSIDERED TO BE AN EXPLOSION HAZARD.

===== Accidental Release Measures =====

Spill Release Procedures:VENTILATE SPILL AREA. CLEAN UP PERSONS NEED  
PROTECTIVE CLOTHESG/RESPIRATORS FROM DUST. PICK UP SPILL & PLACE IN  
A SUITABLE CONTAINER FOR RECLAMATION/DISPOSAL IN A WAY THAT DOES  
NOT GENERATE DUST; NEUTRALIZE SMALL QUANTITY WITH SODA ASH & FLUSH  
TO SEWER  
Neutralizing Agent:SODA ASH.

===== Handling and Storage =====

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Handling and Storage Precautions:KEEP IN TIGHTLY CLOSED CONTNRS IN A COOL, DRY, VENTILATED PLACE. PROTECT AGAINST PHYSICAL DAMAGE. KEEP AWAY FROM MOISTURE & OXIDIZING MATERIALS.  
Other Precautions:AVOID BREATHING DUST. USE WITH ADEQUATE VENTILATION. KEEP CONTAINRS CLOSED. WASH THOROUGHLY AFTER HANDLING. AVOID SKIN, EYES & CLOTHING CONTACT.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:DUST/MIST RESPIRATOR.  
Ventilation:LOCAL EXHAUST TO MAINTN BELOW TLV.  
Protective Gloves:IMPERVIOUS  
Eye Protection:SAFETY/CHEMICAL GOGGLES  
Other Protective Equipment:FULL PROTECTIVE CLOTHING, SAFETY SHOWER, EYE WASH STATION.  
Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING THIS MATERIAL.  
Supplemental Safety and Health

===== Physical/Chemical Properties =====

HCC:T6  
Boiling Pt:B.P. Text:DECOM @300C  
Melt/Freeze Pt:M.P/F.P Text:DECOM @306C  
Spec Gravity:1.82  
Solubility in Water:APPRECIABLE  
Appearance and Odor:YELLOW BROWN DELIQUESCENT CRYSTALS.

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES  
OXIDIZERS; METALS, ALYL CHLORIDE, SOD-POT ALLOY.  
Hazardous Decomposition Products:WHEN HEATED TO DECOMPOSITION, EMITS HYDROGEN CHLORIDE FUMES.

===== Disposal Considerations =====

Waste Disposal Methods:WHATEVER CANNOT BE SAVED FOR RECLAMATION MAY BE DISPOSD AS HAZ WASTE IN A RCRA APPROVED WASTE DISPO

SAL FACILITY.

COMPLY WITH LOCAL, STATE & FEDERAL REGULATIONS; SMALL QUANTITIES  
CAN BE NEUTRALIZED W/S ODA ASH & FLUSHED TO SEWER; CWA/CERCLA RQ:  
1000LBS

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