

MALLINCKRODT INC. SCIENCE PRODUCTS DIVISION -- 5543-30,FERRIC SUBSULFATE --  
6505-01-153-3440

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

Product ID:5543-30,FERRIC SUBSULFATE

MSDS Date:04/06/1989

FSC:6505

NIIN:01-153-3440

MSDS Number: BHKMJ

=== 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:31

4-982-5000

Emergency Phone Num:314-982-5000

CAGE:62910

=== 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 SUBSULFATE (MONSEL'S SOLUTION)

CAS:1310-45-8

Fraction by Wt: 100.00%

OSHA PEL:1 MG/CUM FE SALTS

ACGIH TLV:1 MG/CUM FE SALTS

===== Hazards Identi

fication =====

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.

Routes of Entry: Inhalation:NO Skin:NO Ingestion:YES

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:ACUTE: EYE AND SKIN MAY CAUSE MECHANICAL IRRITATION. CHRONIC:NONE SPECIFIED BY MANUFACTURER.

Explanation of Carcinogenicity:NONE OF THE COMPOUNDS IN THIS PRODUCT IS LISTED BY IARC, NTP, OR OSHA AS A CARCINOGEN.

Effects of Overexposure:EYE AND SKIN:NO ADVERSE EFFECTS EXPECTED BUT

SPLASHES MAY CAUSE MECHANICAL IRRITATION. INHALATION: NO ADVERSE EFFECTS EXPECTED.

Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING SKIN DISORDERS OR EYE PROBLEMS, OR IMPAIRED LIVER,KIDNEY OR RESPIRATORY FUNCTIONS MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THE SUBSTANCE.

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

First Aid:INHALATION:REMOVE TO FRESH AIR.GET MED HELP.EYES:IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR 15 MINUTES.G

ET MEDICAL

HELP.SKIN:WASH WITH SOAP & WATER.GET MED ADVICE IF IRRITN DEVELOPS.INGESTION:INDUCE V OMIT BY GIVING 2 GL OF WATER.NOTHING BYMOUTH TO UNCON

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

Extinguishing Media:USE ANY MEANS SUITABLE FOR EXTINGUISHING SURROUNDING FIRE.

Fire Fighting Procedures:FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA WITH FULL FACEPIECE OPERATED IN THE PRESSURE DEMAND OR OTHER POSITIVE PRESSURE MODE. WEAR FULL PROTECTIVE EQUIPMENT

Unusual Fire/Explosion Hazard:FIRE OR EXCESSIVE HEAT MAY CAUSE PRODUCTION OF HAZARDOUS DECOMPOSITION PRODUCTS. NOT CONSIDERED TO BE EXPLOSIVE.

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

Spill Release Procedures:SMALL SPILL: WIPE/SOAK UP WITH PAPER TOWEL OR INERT ABSORBENT.PUT IN DISPOSAL CONTAINER.LARGE SPILL:EVACUATE AND VENTILATE AREA.IF POSSIBLE,STOP LEAK.DIKE TO RETAIN RUN OFF.VACUUM UP FREE LIQUID.ABSOR B WITH ABSORBENT.KEEP IN COVER

ED CONTAINERS.  
Neutralizing Agent:NOT APPLICABLE.

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

Handling and Storage Precautions:STORE IN A COOL, DRY, WELL VENTILATED AREA.KEEP CONTAINERS TIGHTLY CLOSED WHEN NOT IN USE.PROTECT CONTAINERS FROM PHYSICAL DAMAGE,FREEZING,SUNLIGHT.  
Other Precautions:DO NOT BREATHE MIST.AVOID PROLONGED OR REPEATED CONTACT WITH SKIN.AVOID CONTACT WITH EYES. USE WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING.

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

Respiratory Protection:IF VENTILATION DOES NOT MAINTAIN INHALATION EXPOSURES BELOW PEL(TLV), USE NIOSH/MSHA APPROVED ORGANIC VAPOR CARTRIDGE AND DUST/MIST PRE-FILTER RESPIRATORS AS PER CURRENT 29 CFR 1910.134, INSTRUCTIONS/ WARNINGS AND NIOSH-RESPIRATOR SELECTION.  
Ventilation:MECHANICAL (GENERAL) ROOM VENTILATION IS NORMALLY ADEQUATE. LOCAL EXHAUST MAY BE REQUIRED IF WORK AREA NOT VENTED.  
Protective Gloves:NEOPRENE, NITRILE, PVC OR NATURAL RUBBER  
Eye Protection:SAFETY GOGGLES WITH OPTIONAL FACE SHIELD  
Other Protective Equipment:EYE WASH STATION AND SAFETY SHOWER.APRON REQUIRED.  
Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. DO NOT WEAR CONTAMINATED CLOTHING OR FOOTWEAR.  
Supplemental Safety and Health  
SYNONYMS: FERRIC SULFATE BASIC SOLUTION; IRON HYDROXIDE SULFATE; MONSEL'S SOLUTION.

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

HCC:N1  
Spec Gravity:1.54  
Solubility in Water:COMPLETE  
Appearance and Odor:REDDISH BROWN LIQUID;ODORLESS

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

Stability Indicator/Materials to Avoid:YES  
Stability Condition to Avoid:TEMPERATURES EXTREMITIES.LIGHT SENSITIVE  
Hazardous Decomposition Products:OXIDES OF SULFUR AND THE CONTAINED METALS.

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

Waste Disposal Methods:DISPOSAL SHOULD BE MADE IN ACCORDA

NCE WITH ALL

APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS.

Disclaimer (provided with this information by the compiling agencies):

This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume respons

ibility for the suitability of this information to their particular situation.