

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:314

-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 Identif

ication =====

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 EXP

ECTED 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.GE

T 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 COVERE

D 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.

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=== 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 =====

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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 ACCORDANCE

CE WITH ALL

APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS.

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