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

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

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: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 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.

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 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, N ITRILE, 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. === HCC:N1 Spec Gravity:1.54 Solubility in Water:COMPLETE Appearance and Odor:REDDISH BROWN LIQUID;ODORLESS Stability Indicator/Materials to Avoid:YES Stability Condition to Avoid: TEMPERATURES EXTREMITIES. LIGHT SENSITIVE Hazardous Decomposition Products: OXIDES OF SULFUR AND THE CONTAINED METALS.

Waste Disposal Methods: DISPOSAL SHOULD BE MADE IN ACCORDAN

CE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS.

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