

# MATERIAL SAFETY DATA SHEET

For R&D use only. Not for drug, household or other uses.

Click <http://www.lookchem.com/cas-131/1310-45-8.html> for suppliers of this product.

## Composition/Information on Ingredient

**Cas:**  
1310-45-8

**Code:**  
M

**RTECS:**

**Code:**  
X

**Name:**  
FERRIC SUBSULFATE (MONSEL'S SOLUTION)

**Other REC Limits:**  
NOT ESTABLISHED

**OSHA PEL:**  
1 MG/CUM FE SALTS

**Code:**  
M

**OSHA STEL:**

**Code:**

**ACGIH TLV:**  
1 MG/CUM FE SALTS

**Code:**  
M

**ACGIHSTEL:**  
N/P

**Code:**

## Control Measures

**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:**  
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:**  
4 SYNONYMS: FERRIC SULFATE BASIC SOLUTION; IRON HYDROXIDE SULFATE; MONSEL'S SOLUTION.

## Health Hazards Data

**LD50LC50Mixture:**  
NONE SPECIFIED BY MANUFACTURER.

**Route Of Entry Inds - Inhalation:**  
NO

**Skin:**  
NO

**Ingestion:**  
YES

**Carcinogenicity Inds - 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.

**Signs And Symptions Of Overexposure:**  
2 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:**  
INHALATION:REMOVE TO FRESH AIR.GET MED HELP.EYES:IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR 15 MINUTES.GET 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

**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,S LEAK.DIKE TO RETAIN RUN OFF.VACUUM UP FREE LIQUID.ABSOR B WITH ABSORBENT.KEEP IN COVERED CONTAINERS.

**Neutralizing Agent:**  
NOT APPLICABLE.

**Waste Disposal Methods:**  
DISPOSAL SHOULD BE MADE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS.

**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 THE MIST.AVOID PROLONGED OR REPEATED CONTACT WITH SKIN.AVOID CONTACT WITH EYES. USE WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING.

## Fire and Explosion Hazard Information

**Flash Point Method:**  
N/P

**Flash Point:**

**Flash Point Text:**  
N/K

**Autoignition Temp:**

**Autoignition Temp Text:**  
N/R 3

**Lower Limits:**  
N/K

**Upper Limits:**  
N/K

**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.

## Physical/Chemical Properties

**HCC:**  
N1

**NRC/State LIC No:**

**Net Prop WT For Ammo:**

**Boiling Point:**

**B.P. Text:**  
N/K

**Melt/Freeze Pt:**

**M.P/F.P Text:**  
N/R

**Decomp Temp:**

**Decomp Text:**  
N/K

**Vapor Pres:**  
N/K

**Vapor Density:**  
N/K

**Volatile Org Content %:**

**Spec Gravity:**  
1.54

**VOC Pounds/Gallon:**

**PH:** N/K

**VOC Grams/Liter:**

**Viscosity:**  
N/R

**Evaporation Rate & Reference:**  
N/K

**Solubility in Water:**  
COMPLETE

**Appearance and Odor:**  
REDDISH BROWN LIQUID;ODORLESS

**Percent Volatiles by Volume:**  
N/K

**Corrosion Rate:**  
N/K

## Reactivity Data

**Stability Indicator:**  
YES

**Stability Condition To Avoid:**  
TEMPERATURES EXTREMITIES.LIGHT SENSITIVE

**Materials To Avoid:**  
UNKNOWN

**Hazardous Decomposition Products:**  
OXIDES OF SULFUR AND THE CONTAINED METALS.

**Hazardous Polymerization Indicator:**  
NO

**Conditions To Avoid Polymerization:**  
NOT APPLICABLE 5

## Toxicological Information

**Information:**N/P

## MSDS Transport Information

**Information:**N/P

## Regulatory Information

**Sara Title III Information:** N/P

**Federal Regulatory Information:** N/P

**State Regulatory Information:** N/P

## Other Information

**Other Information:**N/P