

# MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-146/14634-91-4.html> for suppliers of this product.

## Composition/Information on Ingredient

**Cas:**

14634-91-4

**Code:**

M

**RTECS:****Code:**

X

**Name:**

FERROIN/1,10-PHENANTHROLIN FERROUS SULFATE SOLUTI

**Other REC Limits:**

NONE RECOMMENDED

**OSHA PEL:**

NOT ESTABLISHED

**Code:**

M

**OSHA STEL:****Code:****ACGIH TLV:**

NOT ESTABLISHED

**Code:**

M

**ACGIH STEL:**

N/P

**Code:**

## Control Measures

**Respiratory Protection:**

NON REQUIRED UNDER NORMAL CONDITIONS.

**Ventilation:**

4 MECHANICAL (GENERAL) VENTILATION IS ADEQUATE.

**Protective Gloves:**

DISPOSABLE PLASTIC

**Eye Protection:**

SPLASH GOGGLES, FULL FACE SHIELD

**Other Protective Equipment:**

Equipment EYE WASH STATION, QUICK DRENCH SHOWER, LAB COAT OR LONG SLEEVED SHIRT

**Work Hygienic Practices:**

OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. DO NOT WEAR CONTAMINATED CLOTHING OR FOOTWEAR.

**Supplemental Safety and Health:**

KEY1:N1. THIS PRODUCT IS A KIT CONSISTING OF TWO PARTS. PART A, HAS PNI A; PART B HAS PNI B, SAME NSN.

## Health Hazards Data

**LD50/LC50/Mixture:**

LD50 (ORAL, RAT) IS UNKNOWN.

**Route Of Entry Inds - Inhalation:**

NO

**Skin:**

NO

**Ingestion:**

NO

**Carcinogenicity Inds - NTP:**

NO

**IARC:**

NO

**OSHA:**

NO

**Health Hazards Acute And Chronic:**

ACUTE AND CHRONIC- EXPOSURE TO MISTS OR VAPORS MAY CAUSE RESPIRATORY TRACT IRRITATION. IF INGESTED, MAY CAUSE IRRITATION OF GASTROINTESTINAL TRACT. MAY CAUSE EYE IRRITATION. PROLONGED OR REPEATED SKIN CONTACT MAY CAUSE IRRITATION. TARGET ORGANS:EYES, SKIN, LUNGS AND RESPIRATORY TRACT.

**Explanation Of Carcinogenicity:**

NONE

**Signs And Symptoms Of Overexposure:**

EYE, SKIN, RESPIRATORY AND GASTROINTESTINAL TRACT IRRITATION

**Medical Cond Aggravated By Exposure:**

UNKNOWN

**First Aid:**

INHALATION:REMOVE AFFECTED PERSONS TO FRESH AIR AND TREAT SYMPTOMS. SKIN:WASH WITH PLENTY OF WATER. EYES:FLUSH WITH WATER FOR 15 MINUTES AND SEEK MEDICAL ATTENTION. INGESTION:CALL PHYSICIAN.

**Spill Release Procedures:**

DILUTE WITH LARGE AMOUNT OF WATER. WASH DOWN THE DRAIN WITH EXCESS OF WATER IF PERMITTED.

**Neutralizing Agent:**

3 NOT RELEVANT

**Waste Disposal Methods:**

DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.

**Handling And Storage Precautions:**

STORE CONTAINERS CLOSED WHEN NOT IN USE. PROTECT CONTAINERS FROM PHYSICAL DAMAGE.

**Other Precautions:**

DO NOT GET IN EYES, ON SKIN OR ON CLOTHING. WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING OR DRINKING. REMOVE CONTAMINATED CLOTHING PROMPTLY. FOR INDUSTRIAL USE ONLY.

## Fire and Explosion Hazard Information

**Flash Point Method:**

N/P

**Flash Point:****Flash Point Text:**

NONE

**Autoignition Temp:**

N/A

**Lower Limits:**

N/R

**Upper Limits:**

N/R

**Extinguishing Media:**

WATER FOG. USE WATER SPRAY TO COOL FIRE EXPOSED CONTAINERS.

**Fire Fighting Procedures:**

WEAR FULL PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS OPERATED IN THE POSITIVE PRESSURE MODE.

**Unusual Fire/Explosion Hazard:**

NONE KNOWN.

## Physical/Chemical Properties

**HCC:**

N1

**NRC/State LIC No:****Net Prop WT For Ammo:**

N/P

**Boiling Point:**

212F,100C

**Melt / Freeze Pt:**

N/R

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

UNKNOWN

**Decomp Temp:**

UNKNOWN

**Decomp Text:**

UNKNOWN

**Vapor Pres:**

UNKNOWN

**Vapor Density:**

UNKNOWN

**Volatile Org Content %:**

N/A

**Spec Gravity:**

1.0

**VOC Pounds/Gallon:**

N/R

**PH:**

6 - 7

**VOC Grams/Liter:**

N/P

**Viscosity:**

N/P

**Evaporation Rate & Reference:**

UNKNOWN

**Solubility in Water:**

MISCIBLE

**DARK RED LIQUID - ODORLESS****Percent Volatiles by Volume:**

N/R

**Corrosion Rate:**

UNKNOWN

## Reactivity Data

**Stability Indicator:**

YES

**Stability Condition To Avoid:**

NONE

**Materials To Avoid:**

STRONG OXIDIZING AGENTS

**Hazardous Decomposition Products:**

UNKNOWN

**Hazardous Polymerization Indicator:**

NO

**Conditions To Avoid Polymerization:**

NOT RELEVANT

## 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

**LookChem**

Look for Chemicals

www.lookchem.com

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

The above information is believed to be correct but does not purport to be all inclusive and shall be used

only as a guide. The information in this document is based on the present state of our knowledge and

guarantees of the properties of the product. Lookchem shall not be held liable for any damage resulting from

handling or from contact with the above product. See reverse side of invoice or packing slip for additional

terms and conditions of sale.