

# MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-135/13590-82-4.html> for suppliers of this product.

## Composition/Information on Ingredient

**Cas:**  
13590-82-4

**Code:**  
M

**RTECS:**  
WS6960000

**Code:**  
M

**Name:**  
CERIC SULFATE

**Other REC Limits:**  
NONE RECOMMENDED

**OSHA PEL:**  
NOT ESTABLISHED

**Code:**  
M

**OSHA STEL:**

**Code:**

**ACGIH TLV:**  
NOT ESTABLISHED

**Code:**  
M

**ACGIHSTEL:**  
N/P

**Code:**

## Control Measures

**Respiratory Protection:**  
NON REQUIRED UNDER NORMAL CONDITIONS. IF MISTING IS OCCURRING, USE NIOSH-APPROVED SUPPLIED AIR RESPIRATOR, OR AN AIR-PURIFYING RESPIRATOR FOR ACID. WEAR SELF-CONTAINED BREATHING APPARATUS AT 50 MG/M3.

**Ventilation:**  
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:C1. THIS PRODUCT IS A KIT CONSISTING OF TWO PARTS. PART A, HAS PNI A; PART B HAS PNI B, SAME NSN.

## Health Hazards Data

**LD50LC50Mixture:**  
LD50 (ORAL, RAT) IS UNKNOWN.

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

**Skin:**  
NO

**Ingestion:**  
YES

**Carcinogenicity Inds - NTP:**  
NO

**IARC:**  
NO

**OSHA:**  
NO

**Health Hazards Acute And Chronic:**  
ACUTE & CHRONIC- DANGEROUS TO EYE. EXPOSURE TO MISTS OR VAPORS MAY CAUSE RESPIRATORY TRACT IRRITATION. IF INGESTED, MAY CAUSE IRRITATION AND BURNS OF GASTROINTESTINAL TRACT.

**Explanation Of Carcinogenicity:**  
NONE

**Signs And Symptoms Of Overexposure:**  
EYE, SKIN BURNS, IRRITATION OF RESPIRATORY AND GASTROINTESTINAL TRACT 3

**Medical Cond Aggravated By Exposure:**  
SKIN IRRITATION MAY BE AGGRAVATED IN PERSONS WITH EXISTING SKIN LESION. MAY AGGRAVATE PRE-EXISTING EYE AND PULMONARY DISEASES.

**First Aid:**  
SPEED IS ESSENTIAL. START FIRST AID & GET MEDICAL CARE AT ONCE. EYES/SKIN:FLUSH WITH WATER FOR AT LEAST 15 MINUTES. HOLD EYELIDS OPEN. INHALED:REMOVE TO FRESH AIR. PROVIDE CPR/OXYGEN IF NEEDED. ORAL:DO NOT INDUCE VOMITING. IF CONSCIOUS, DRINK LARGE AMOUNT OF WATER. TAKE AT LEAST 1 OUNCE OF MILK OF MAGNESIA IN EQUAL AMOUNT OF WATER OR WHITES OF THREE EGGS.

**Spill Release Procedures:**  
WEAR PROTECTIVE EQUIPMENTS. VENTILATE AREA. COVER SPILL WITH SODIUM BICARBONATE OR A SODA ASH-SLAKED LIME MIXTURE (50:50). MIX TO FORM SLURRY. SCOOP UP SLURRY AND WASH DOWN THE DRAIN WITH EXCESS OF WATER IF PERMITTED. WASH SPILL SITE WITH NEUTRALIZER

**Neutralizing Agent:**  
SODIUM BICARBONATE, SODA ASH-SLAKED LIME MIXTURE (50:50)

**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:**  
AVOID BREATHING VAPORS OR MISTS. DO NOT GET IN EYES, ON SKIN OR ON CLOTHING. WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING OR DRINKING. REMOVE CONTAMINATED CLOTHING PROMPTLY. KEEP OUT OF REACH OF CHILDREN. FOR INDUSTRIAL USE ONLY.

## Fire and Explosion Hazard Information

**Flash Point Method:**  
N/P

**Flash Point:**

**Flash Point Text:**  
NONE

**Autoignition Temp:**

**Autoignition Temp Text:**  
N/R

**Lower Limits:**  
N/R

**Upper Limits:**  
N/R 4

**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 WITH FULL FACEPIECE OPERATED IN THE POSITIVE PRESSURE MODE.

**Unusual Fire/Explosion Hazard:**  
NONE KNOWN.

## Physical/Chemical Properties

**HCC:**  
C1

**NRC/State LIC No:**  
NOT RELEVANT

**Net Prop WT For Ammo:**

**Boiling Point:**

**B.P. Text:**  
212F,100C

**Melt/Freeze Pt:**

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

**Decomp Temp:**

**Decomp Text:**  
UNKNOWN

**Vapor Pres:**  
UNKNOWN

**Vapor Density:**  
UNKNOWN

**Volatile Org Content %:**

**Spec Gravity:**  
1.08

**VOC Pounds/Gallon:**

**PH:** 1.0

**VOC Grams/Liter:**

**Viscosity:**  
UNKNOWN

**Evaporation Rate & Reference:**  
UNKNOWN

**Solubility in Water:**  
MISCIBLE

**Appearance and Odor:**  
ORANGE LIQUID - PUNGENT ODOR

**Percent Volatiles by Volume:**  
>90

**Corrosion Rate:**  
UNKNOWN

## Reactivity Data

**Stability Indicator:**  
YES

**Stability Condition To Avoid:**  
EXTREME HEAT

**Materials To Avoid:**  
ALKALI

**Hazardous Decomposition Products:**  
SULFUR OXIDES

**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

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WARRANTY

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 is

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