

# MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-100/10034-88-5.html> for suppliers of this product.

## Composition/Information on Ingredient

**Cas:**  
10034-88-5  
**Code:**  
M

**RTECS:**  
VZ1870000  
**Code:**  
M

**Name:**  
SODIUM BISULFATE MONOHYDRATE

**Other REC Limits:**  
NONE SPECIFIED

**OSHA PEL:**  
NOT ESTABLISHED  
**Code:**  
M

**OSHA STEL:**

**Code:**

**ACGIH TLV:**  
NOT ESTABLISHED  
**Code:**  
M

**ACGIHSTEL:**  
N/P  
**Code:**

## Control Measures

**Respiratory Protection:**  
MFR GAVE NO INFORMATION OF MSDS.

**Ventilation:**  
5 ADEQUATE VENTILATION.

**Protective Gloves:**  
DISPOSABLE LATEX GLOVES

**Eye Protection:**  
LAB GRADE GOGGLES

**Other Protective Equipment:**  
Equipment LAB COAT

**Work Hygienic Practices:**  
MFR GAVE NO INFORMATION OF MSDS.

**Supplemental Safety and Health:**  
SPECIAL NOTE: THE IARC EVALUATION WAS BASED ON EXPOSURE TO THE MIST OR VAPOR OF CONCENTRATED SULFURIC ACID GENERATED DURING CHEMICAL PROCESSES.

## Health Hazards Data

**LD50LC50Mixture:**  
PRODUCT'S LD50 (ORAL RAT) WAS NOT STATED

**Route Of Entry Inds - Inhalation:**  
YES

**Skin:**  
YES

**Ingestion:**  
YES

**Carcinogenicity Inds - NTP:**  
NO

**IARC:**  
YES

**OSHA:**  
NO

**Health Hazards Acute And Chronic:**  
THIS PRODUCT MAY BE CORROSIVE TO EYES, SKIN & RESPIRATORY TRACT. ACUTE TOXICITY-INGESTION MAY CAUSE BONE MARROW DISORDERS.

**Explanation Of Carcinogenicity:**  
HACH LISTS SULFURIC ACID AS A "KNOWN CARCINOGEN". SEE SUPP DATA.

**Signs And Symptoms Of Overexposure:**  
CAUSES BURNS. BREATHING SULFURIC ACID MIST OR VAPOR MAY CAUSE EROSION OF TEETH, MOUTH SORENESS, DIFFICULT BREATHING. MOLYBDENUM COMPOUNDS MAY CAUSE LOSS OF COORDINATION, LOSS OF APPETITE, ANEMIA. MAY INDUCE COPPER DEFICIENCY.

**Medical Cond Aggravated By Exposure:**  
PRE EXISTING EYE, SKIN & RESPIRATORY CONDITIONS, BLOOD DISEASE & GOUT MAY BE AGGRAVATED BY EXPOSURE TO MOLYBDENUM COMPOUNDS.

**First Aid:**  
IF IRRITATION PERSISTS OR IS SEVERE, GET MEDICAL ATTENTION. EYE:FLUSH W/WATER FOR 15 MIN. SKIN:WASH W/SOAP & WATER. INHALED:REMOVE FROM EXPOSURE. AID OR RESTORE BREATHING AS NEEDED. INGESTED: DO NOT INDUCE VOMITING. GIVE 1-2 GLASSES OF MILK OR WATER TO DRINK. GET IMMEDIATE MEDICAL ATTENTION. NOTHING BY MOUTH IF UNCONSCIOUS.

**Spill Release Procedures:**  
COVER CONTAMINATED SURFACE W/EXCESS SODA ASH OR SODIUM BICARBONATE. SCOOP SLURRY INTO BEAKER. ADJUST PH TO BETWEEN 6 & 9. FLUSH TO DRAIN W/EXCESS WATER. WASH SITE W/ALKALI SOLUTION.

**Neutralizing Agent:**  
4 SODIUM BICARBONATE, SODA ASH.

**Waste Disposal Methods:**  
DISPOSE OF I/A/W FEDERAL, STATE & LOCAL REGULATIONS.

**Handling And Storage Precautions:**  
STORE IN A COOL PLACE AWAY FROM OXIDIZERS & REDUCERS.

**Other Precautions:**  
WASH THOROUGHLY AFTER HANDLING. AVOID CONTACT W/EYES, SKIN & CLOTHING. DO NOT BREATHE VAPOR OR MIST.

## Fire and Explosion Hazard Information

**Flash Point Method:**  
N/P

**Flash Point:**

**Flash Point Text:**  
NOT APPLICABLE

**Autoignition Temp:**

**Autoignition Temp Text:**  
N/K

**Lower Limits:**  
N/A

**Upper Limits:**  
N/A

**Extinguishing Media:**  
USE MEDIA APPROPRIATE FOR SURROUNDING FIRE.

**Fire Fighting Procedures:**  
HEATING TO DECOMPOSITION MAY RELEASE TOXIC FUMES OF SULFUR OXIDES.

**Unusual Fire/Explosion Hazard:**  
NONE REPORTED

## Physical/Chemical Properties

**HCC:**  
C1

**NRC/State LIC No:**  
NONE

**Net Prop WT For Ammo:**

**Boiling Point:**

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

**Melt/Freeze Pt:**

**M.P/F.P Text:**  
NOT GIVEN

**Decomp Temp:**

**Decomp Text:**  
NOT GIVEN

**Vapor Pres:**  
NOT GIVEN

**Vapor Density:**  
NOT GIVEN

**Volatile Org Content %:**

**Spec Gravity:**  
1.2

**VOC Pounds/Gallon:**

**PH:** <0.5

**VOC Grams/Liter:**

**Viscosity:**  
UNKNOWN

**Evaporation Rate & Reference:**  
NOT GIVEN 6

**Solubility in Water:**  
MISCIBLE

**Appearance and Odor:**  
CLEAR COLORLESS LIQUID, NO ODOR.

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

**Corrosion Rate:**  
UNKNOWN

## Reactivity Data

**Stability Indicator:**  
YES

**Stability Condition To Avoid:**  
EXTREME TEMPERATURES.

**Materials To Avoid:**  
MAY REACT VIOLENTLY ON CONTACT W/OXIDIZERS, REDUCERS OR STRONG BASES.

**Hazardous Decomposition Products:**  
HEATING TO DECOMPOSITION MAY RELEASE TOXIC FUMES OF SULFUR OXIDES.

**Hazardous Polymerization Indicator:**  
NO

**Conditions To Avoid Polymerization:**  
NONE. WILL NOT OCCUR.

## 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  
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