

Safety Data Sheet

Potassium Metabisulfite Crystals

Section 1 - Chemical Product and Company Identification

SDS Name: Potassium Metabisulfite Crystals

Catalog Numbers: SO-580

Company Identification: Transene Company, Inc., DBA ROWLEY BIOCHEMICAL, Inc.
10 ELECTRONICS AVENUE
DANVERS, MA 01923

For information, call: 978-739-4883

Emergency Number: 800-424-9300

For CHEMTREC assistance, call: 800-424-9300

Section 2 - Hazards Identification

GHS Classifications

H302-Acute toxicity, oral: 4

H318-Serious eye damage/eye irritation: 1

H335-Specific target organ toxicity, single exposure; Respiratory tract irritation: 3

Pictograms or Hazard symbols and Hazard statement(s):



Signal Word: Danger

Hazard statements:

H302-Harmful if swallowed

H318-Causes serious eye damage

H335-May cause respiratory irritation

Precautionary Statements:

P261-Avoid breathing dust/fume/gas/mist/vapours/spray.

P264-Wash thoroughly after handling.

P270-Do not eat, drink, or smoke when using this product.

P271-Use only outdoors or in a well-ventilated area.

P280-Wear eye protection/face protection.

P301+P312-If swallowed: Call a Poison Center/doctor if you feel unwell.

P304+P340-If inhaled: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338-If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310-Immediately call a Poison Center/doctor.

P312-Call a Poison Center/doctor if you feel unwell.

P330-Rinse mouth.

P403+P233-Store in a well-ventilated place. Keep container tightly closed.

P405-Store locked up.

P501-Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 3 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent
16731-55-8	Potassium Metabisulfite	≤100

Section 4 - First Aid Measures

Eye Exposure: In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Get immediate medical attention.

Dermal Exposure: In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention.

Oral Exposure: If swallowed, get immediate medical advice. Rinse mouth with water.

Inhalation Exposure: If inhaled, remove to fresh air. Get medical attention.

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating gases may be generated by thermal decomposition or combustion.

Extinguishing Media: Use dry chemical, carbon dioxide, dry sand, water spray, or alcohol-resistant foam.

Hazardous Combustion Products: Sulfur oxides, potassium oxides, irritating and toxic fumes and gases.

Flash Point: Not available

Autoignition Temperature: Not available

Explosion Limits, Lower: Not available

Upper: Not available

NFPA Rating: (estimated) Health: 2; Flammability: 0; Instability: 0

Section 6 - Accidental Release Measures

Procedure(s) of Personal Precaution(s):

Wear personal protective equipment. Do not get on skin or clothing. Do not ingest or inhale. Do not get in eyes. Ensure adequate ventilation. Avoid dust formation.

Methods for Cleaning up: Absorb with sand, earth, or vermiculite. Carefully sweep up and containerize for proper disposal. Avoid generating dusty conditions. Do not release to the environment. Do not release to drains.

Section 7 - Handling and Storage

Use care when handling. Wash thoroughly after handling. Wear personal protective equipment. Ensure adequate ventilation. Use only under a chemical fume hood. Do not ingest or inhale. Do not get on skin or clothing. Do not get in eyes. Minimize dust generation and accumulation. Keep in a tightly closed container. Store in a cool, dry, and well-ventilated area. Keep away from acids and incompatible materials.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Use explosion-proof ventilation equipment. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

Exposure Limits:

Chemical Name	ACGIH - TLV	NIOSH - IDLH	OSHA - Final PELs
Potassium Metabisulfite CAS#16731-55-8	Not listed	Not listed	Not listed

Section 9 - Physical and Chemical Properties

Physical State: Solid
Appearance: Off-white
Odor: Characteristic
Vapor Pressure: Not available
Odor Threshold: Not available
Vapor Density: Not applicable
pH: 3.50-4.50 (5% aqueous solution)
Relative Density: Not available
Melting point/freezing point: 150°C (302°F)
Solubility: Soluble in water
Boiling Point: Not available
Flash Point: Not available
Evaporation Rate: Not available
Flammability (solid, gas): Not available
Partition coefficient: n-octanol/water: Not available
Autoignition Temperature: Not available
Decomposition Temperature: 150°C (302°F)
Viscosity: Not available
Specific Gravity/Density: Not available

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.
Conditions to Avoid: Incompatible materials, ignition sources, and excess heat. Avoid dust formation.
Incompatibilities with Other Materials: Acids.
Hazardous Decomposition Products: Sulfur oxides, potassium oxides, irritating and toxic fumes and gases.

Note: Potassium Metabisulfite in contact with acids, liberates toxic gas.

Section 11 - Toxicological Information

CAS# 6731-55-8 Potassium Metabisulfite: RTECS#: TT4920000

LD50 Oral: 1800 mg/kg (rat)
LD50 Oral: 2300 mg/kg (rat)
LD50 Dermal: >2 g/kg (rat)
LC50 Inhalation: >5.5 mg/L 4h (rat)

Carcinogenicity: Potassium Metabisulfite CAS#16731-55-8 is not listed by IARC, NTP, ACGIH, OSHA, or California Prop. 65.

Information on the likely routes of exposure: Routes of entry anticipated: oral, dermal, inhalation, and eye.

Epidemiology: Not available.

Teratogenicity: Not available.

Reproductive Effects: Not available.

Developmental Effects: Not available.

Neurotoxicity: Not available.

Mutagenicity: Not available.

Specific Target Organ Toxicity, Single Exposure: Respiratory system.

Specific Target Organ Toxicity, Repeated Exposure: Not available.

Symptoms associated with exposure: May cause respiratory irritation. May cause irritations of mucous membranes in the mouth, pharynx, esophagus, and gastrointestinal tract. May cause cough, shortness of breath, and possible damage to respiratory tract.

The toxicological properties of this material have not been thoroughly investigated.

Section 12 - Ecological Information

Ecotoxicity: Do not release to the environment. Do not release to drains.

CAS#16731-55-8 Potassium Metabisulfite:

LC50, freshwater fish: 460-1000 mg/L 96h static (brachydanio rerio)(zebra fish)

EC50, microtox: 65 mg/L 17h

Persistence and degradability: Persistence is unlikely based on information available.

Bio-accumulative potential: Not available.

Mobility: Will likely be mobile in the environment due to its water solubility.

Section 13 - Disposal Considerations

DISPOSAL: Dispose of in accordance with all federal, state, and local regulations.

Section 14 - Transport Information

DOT

Non-Regulated

Section 15 - Regulatory Information

Canada Regulatory Information

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the SDS contains all the information required by the CPR.

Section 16 - Additional Information

SDS Creation Date: 10-15-12

Revision #1: 4-14-14 YM Co-sign RC

Revision #2: 3-9-17 RC

Revision #3: 11-30-22

Revision #4: 6-2-25

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