



SIGMA-ALDRICH

Material Safety Data Sheet

Date Printed: 02/23/2002
Date Updated: 10/28/1999
Version: 1.0

Section 1 - Product and Company Information

Product Name	POTASSIUM BROMIDE IR GRADE
Product Number	P5510
Brand	Sigma Chemical
Company	Sigma-Aldrich
Street Address	3050 Spruce Street
City, State, Zip, Country	SAINT LOUIS, MO. 63103, US
Technical Phone:	314 771 5765
Fax:	800 325 5052
Emergency Phone:	414 273 3850 Ext. 5996

Section 2 - Composition/Information on Ingredient

Substance Name	CAS #	SARA 313
POTASSIUM BROMIDE	7758-02-3	No
Formula	BK	
Synonyms	Bromide salt of potassium, Tripotassium tribromide	

Section 3 - Hazards Identification

Emergency Overview
Harmful
Harmful if swallowed, irritating to eyes, respiratory system, and skin.
Target organ(s): Central nervous system.

HMS Rating
Health: 1 Flammability: 0 Reactivity: 1

NFPA Ratings
Flammability: 0 Reactivity: 1

For additional information on toxicity, please refer to Section 11.

Section 4 - First Aid Measures

Oral Exposure
If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Inhalation Exposure
If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

Dermal Exposure
In case of contact, immediately wash skin with soap and copious amounts of water.

Eye Exposure
In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

Section 5 - Fire Fighting Measures

Autoignition Temp: N/A **Flammability:** N/A

Extinguishing Media
Suitable
Carbon dioxide, dry chemical powder, or appropriate foam.

Firefighting
Protective Equipment
Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
Specific Hazard(s)
Emits toxic fumes under fire conditions.

Exposure Hazard(s)
Material
Irritant, Harmful solid.

Section 6 - Accidental Release Measures

Procedure to be Followed in Case of Leak or Spill
Evacuate area.

Procedure(s) of Personal Precaution(s)
Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

Methods for Cleaning Up
Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

Section 7 - Handling and Storage

Handling
User Exposure
Do not breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

Storage
Suitable
Keep tightly closed. Store in a cool dry place.

Section 8 - Exposure Controls / PPE

Engineering Controls
Safety shower and eye bath. Mechanical exhaust required.

Personal Protective Equipment
Other
Wear appropriate NIOSH/MSHA-approved respirator, chemical-resistant gloves, safety goggles, other protective clothing.

General Hygiene Measures
Wash thoroughly after handling. Wash contaminated clothing before reuse.

Section 9 - Physical/Chemical Properties

Appearance	Color	Form
	White	Fine crystals

Molecular Weight: 119.01 AMU	
Property	Value
pH	5.0 - 6.0
BP/MP Range	N/A
MP/MP Range	734 °C
Freezing Point	N/A
Vapor Pressure	< 0.01 mmHg
Saturated Vapor Conc.	N/A
SG/Density	2.75 g/cm ³
Bulk Density	N/A
Odor Threshold	N/A
VOC Content	N/A
Water Content	N/A
Solvent Content	N/A
Evaporation Rate	N/A
Viscosity	N/A
Partition Coefficient	N/A
Decomposition Temp.	N/A
Flash Point °F	N/A
Flash Point °C	N/A
Explosion Limits	N/A
Autoignition Temp	N/A
Solubility	N/A
Solubility in Water: 1 M in H ₂ O, 20 °C, complete, colorless	

Section 10 - Stability and Reactivity

Stability
Conditions of Instability
Protect from moisture.
Conditions to Avoid
Protect from moisture.
Materials to Avoid
Strong oxidizing agents, Strong acids, Heavy metal salts.
Hazardous Decomposition Products
Hazardous Decomposition Products
Hydrogen bromide gas.

Section 11 - Toxicological Information

Route of Exposure
Skin Absorption
May be harmful if absorbed through the skin.
Inhalation
Material is irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.
Ingestion
Harmful if swallowed.
Multiple Routes
Causes eye and skin irritation.

Signs and Symptoms of Exposure
Can cause CNS depression. Potassium bromide on prolonged contact with moist skin can produce severe irritation or burns. Prolonged inhalation of dust can produce bronchitis. Ingestion of large quantities can cause irritability, confusion, tremors, acne-like skin eruptions, memory loss, headache, slurred speech, and anorexia. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

RTECS Number: TS7650000

Toxicity Data

Oral - Rat: 3,070 mg/kg (LD50)	
Hemats:	Sense Organs and Special Senses (Nose, Eye, Ear, and Taste);Olfaction;Other changes.
Behavioral:	Somnolence (general depressed activity).
Behavioral:	Ataxia.
Oral - Mouse: 3,120 mg/kg (LD50)	
Hemats:	Sense Organs and Special Senses (Nose, Eye, Ear, and Taste);Olfaction;Other changes.
Behavioral:	Somnolence (general depressed activity).
Behavioral:	Ataxia.
Intraperitoneal - Mouse: 1030 MG/KG (LD50)	
Hemats:	Sense Organs and Special Senses (Nose, Eye, Ear, and Taste);Olfaction;Other changes.
Behavioral:	Somnolence (general depressed activity).
Behavioral:	Ataxia.
Intraperitoneal - Guinea pig: 980 MG/KG (LD50)	
Hemats:	Sense Organs and Special Senses (Nose, Eye, Ear, and Taste);Olfaction;Other changes.
Behavioral:	Somnolence (general depressed activity).
Behavioral:	Ataxia.

Chronic Exposure - Mutagen
Species
Rat
Dose
200 MG/KG

Cell Type
Ascites Tumor
Mutation Test
Cytogenetic analysis

Section 12 - Ecological Information

Section 13 - Disposal Considerations

Appropriate Method of Disposal of Substance or Preparation
Contact a licensed professional waste disposal service to dispose of this material.
Observe all federal, state, and local environmental regulations.

Section 14 - Transport Information

DOT
Proper Shipping Name: None
Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.
IATA
Proper Shipping Name: None
Non-Hazardous for Air Transport: Non-hazardous for air transport.

Section 15 - Regulatory Information

EU Additional Classification
Symbol of Danger: Xn
Indication of Danger
Harmful.
Risk Statements
R: 22 36/37/38
Harmful if swallowed. Irritating to eyes, respiratory system, and skin.
Safety Statements
S: 26 36 22
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing. Do not breathe dust.

US Classification and Label Text
Indication of Danger
Harmful.
Risk Statements
Harmful if swallowed. Irritating to eyes, respiratory system, and skin.

Safety Statements

Do not breathe dust. Wear suitable protective clothing.

US Statements

Target organ(s): Central nervous system.

United States Regulatory Information

SARA 313 Listed: No

TSCA Inventory Item: Yes

Section 16 - Other Information

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. Sigma-Aldrich Inc. 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. Copyright 1999 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.



SIGMA-ALDRICH

3050 Spruce Street
SAINT LOUIS, MO 63103 US
Technical Phone: 314 771 5765
Emergency Phone: 414 273 3850 Ext. 5996
Fax: 800 325 5052
www.sigma-aldrich.com

2/23/02

MSDS Address Confirmation

Our records indicate your MSDS address as:

Acct.# 0049487708

SCHOOLCRAFT COLLEGE
18600 HAGGERTY RD
LIVONIA, MI 48152-3932
US

Address Correction:

Telephone: _____

Comments(if necessary):

Please read and sign below if your organization does not wish to receive any further MSDS mailings from Sigma Aldrich.

*I hereby certify that my organization meets all 29 CFR 1910.1200 OSHA HAZCOMM requirements by alternative means, electronic or otherwise, and do not require Sigma-Aldrich to send me a paper copy of MSDS' for any and all products ordered from Sigma-Aldrich Corporation.

Signature of Corporate Product Safety Director _____

Date _____

Please fax completed confirmation to our CMMG department at 877-380-2660 or 314-286-8083 or e-mail address changes to cmmg@sial.com.