

Part of Thermo Fisher Scientific

Material Safety Data Sheet

Creation Date 15-Nov-2010 Revision Date 05-Nov-2012 Revision Number 2

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Potassium bromate

Cat No. P207250, P207500, S80133

Synonyms Bromic acid, potassium salt.

Recommended Use Laboratory chemicals

CompanyEmergency Telephone NumberFisher ScientificCHEMTREC®, Inside the USA: 800-

One Reagent Lane 424-9300

Fair Lawn, NJ 07410 CHEMTREC®, Outside the USA: 001-

Tel: (201) 796-7100 703-527-3887

2. HAZARDS IDENTIFICATION

DANGER!

Emergency Overview

Oxidizer. Explosive when mixed with combustible material. Suspect cancer hazard. Toxic if swallowed. Harmful in contact with skin. Irritating to mucous membranes.

Appearance White Physical State Powder Solid odor odorless

Target Organs Respiratory system, Skin, Kidney, Thyroid, Central nervous system (CNS), Gastrointestinal

tract (GI)

Potential Health Effects

Acute Effects

Principle Routes of Exposure

Eyes Irritating to eyes.

SkinHarmful in contact with skin. May cause irritation.InhalationMay be harmful if inhaled. Irritating to respiratory system.

Ingestion Toxic if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and

diarrhea.

Chronic Effects Kidney injury may occur. Potential cancer hazard.

See Section 11 for additional Toxicological information.

Aggravated Medical Conditions No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Haz/Non-haz

Component	CAS-No	Weight %	
Potassium bromate	7758-01-2	>95	

4. FIRST AID MEASURES

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain

medical attention.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Get medical attention

immediately if symptoms occur.

Inhalation Move to fresh air. If breathing is difficult, give oxygen. Get medical attention immediately if

symptoms occur.

Ingestion Do not induce vomiting. Call a physician or Poison Control Center immediately.

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flash Point No information available.

Method No information available.

Autoignition Temperature No information available.

Explosion Limits

UpperNo data availableLowerNo data available

Suitable Extinguishing Media Cool closed containers exposed to fire with water spray. Water

spray. Carbon dioxide (CO₂). Dry chemical. chemical foam.

Unsuitable Extinguishing Media

No information available.

Hazardous Combustion Products

No information available.

Sensitivity to mechanical impact
Sensitivity to static discharge
No information available.
No information available.

Specific Hazards Arising from the Chemical

Oxidizer: Contact with combustible/organic material may cause fire.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective

gear.

NFPA Health 3 Flammability 1 Instability 3 Physical hazards N/A

6. ACCIDENTAL RELEASE MEASURES

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Use personal protective equipment. Ensure adequate ventilation. Avoid dust formation. **Personal Precautions**

Should not be released into the environment **Environmental Precautions**

Methods for Containment and Clean

Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation. Keep combustibles (wood, paper, oil, etc) away from spilled material.

7. HANDLING AND STORAGE

Handling Wear personal protective equipment. Use only in area provided with appropriate exhaust

ventilation. Avoid dust formation. Do not breathe dust. Do not get in eyes, on skin, or on

clothing. Use explosion-proof equipment.

Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Do not store near Storage

combustible materials.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Measures Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and

safety showers are close to the workstation location.

This product does not contain any hazardous materials with occupational exposure limits **Exposure Guidelines**

established by the region specific regulatory bodies.

NIOSH IDLH: Immediately Dangerous to Life or Health

Personal Protective Equipment

Eye/face Protection

Skin and body protection **Respiratory Protection**

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

Wear appropriate protective gloves and clothing to prevent skin exposure.

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits

are exceeded or if irritation or other symptoms are experienced.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Powder Solid **Appearance** White odor odorless

No information available. **Odor Threshold**

Ha Vapor Pressure No information available. **Vapor Density** No information available. Viscosity No information available. **Boiling Point/Range** No information available.

350°C / 662°F Melting Point/Range

Decomposition temperature No information available. **Flash Point** No information available. **Evaporation Rate** No information available.

Specific Gravity 3.270

Solubility No information available.

log Pow No data available

Molecular Weight 167.01

9. PHYSICAL AND CHEMICAL PROPERTIES

Molecular Formula

Br K O3

10. STABILITY AND REACTIVITY

Stability Oxidizer: Contact with combustible/organic material may cause fire.

Conditions to Avoid Heat, flames and sparks. Keep away from open flames, hot

surfaces and sources of ignition. Combustible material.

Incompatible products.

Incompatible Materials Strong reducing agents, Organic materials, Powdered metals

Hazardous Decomposition Products Hydrogen halides

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions . None under normal processing.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Component Information

Component	Component LD50 Oral		LC50 Inhalation (Dust)
Potassium bromate	157 mg/kg (Rat)	Not listed	Not listed

Irritation May cause irritation to mucous membranes and respiratory tract

Toxicologically Synergistic

Products

No information available.

Chronic Toxicity

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	ACGIH	IARC	NTP	OSHA	Mexico
Potassium bromate	Not listed	Group 2B	Not listed	Χ	Not listed

Sensitization No information available.

Mutagenic Effects Not mutagenic in AMES Test

Reproductive Effects No information available.

Developmental EffectsNo information available.

Teratogenicity No information available.

Other Adverse Effects See actual entry in RTECS for complete information.

Endocrine Disruptor Information No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Do not empty into drains

Persistence and Degradability

Bioaccumulation/ Accumulation

No information available

Mobility

No information available

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a

hazardous waste. Chemical waste generators must also consult local, regional, and national

hazardous waste regulations to ensure complete and accurate classification

14. TRANSPORT INFORMATION

DOT

UN-No UN1484

Proper Shipping Name POTASSIUM BROMATE

Hazard Class 5.1 Packing Group

TDG

UN-No UN1484

Proper Shipping Name POTASSIUM BROMATE

Hazard Class 5.1 Packing Group II

<u>IATA</u>

UN-No UN1484

Proper Shipping Name Potassium bromate

Hazard Class 5.1 Packing Group

IMDG/IMO

UN-No UN1484

Proper Shipping Name Potassium bromate

Hazard Class 5.1

14. TRANSPORT INFORMATION

Packing Group

Ш

15. REGULATORY INFORMATION

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	CHINA	KECL
Potassium bromate	Х	Χ	-	231-829-	-		Х	Χ	Χ	Χ	Χ
				8							

Legend:

- X Listed
- E Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
- F Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
- N Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
- P Indicates a commenced PMN substance
- R Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
- S Indicates a substance that is identified in a proposed or final Significant New Use Rule
- T Indicates a substance that is the subject of a Section 4 test rule under TSCA.
- XU Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
- Y1 Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
- Y2 Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA 313

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Potassium bromate	7758-01-2	>95	0.1

SARA 311/312 Hazardous Categorization

Acute Health Hazard Yes
Chronic Health Hazard Yes
Fire Hazard Yes
Sudden Release of Pressure Hazard No
Reactive Hazard Yes

Clean Water Act

Not applicable

Clean Air Act

Not applicable

OSHA

Not applicable

CERCLA

Not Applicable

California Proposition 65

This product contains the following Proposition 65 chemicals:

Component	CAS-No	California Prop. 65	Prop 65 NSRL	
Potassium bromate	7758-01-2	Carcinogen	1 μg/day	

State Right-to-Know

Component			Pennsylvania	Illinois	Rhode Island	
Potassium bromate	X	X	Χ	Χ	Х	

U.S. Department of Transportation

Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

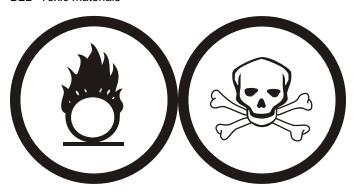
Mexico - Grade No information available

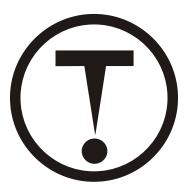
Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

C Oxidizing materials D1B Toxic materials D2B Toxic materials





16. OTHER INFORMATION

Prepared By Regulatory Affairs

Thermo Fisher Scientific

Email: EMSDS.RA@thermofisher.com

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Revision Summary "***", and red text indicates revision

Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of MSDS