Potassium Bromate

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Product Description

Product Name: Recommended Use: Synonyms: Distributor:

Section 1

Potassium Bromate Science education applications Bromic acid, potassium salt Carolina Biological Supply Company 2700 York Road, Burlington, NC 27215 1-800-227-1150 800-227-1150 (8am-5pm (ET) M-F) 800-424-9300 (Transportation Spill Response 24 hours)

Chemical Information: Chemtrec:

Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;



Section 2



May cause fire or explosion; strong oxidizer. Toxic if swallowed. Suspected of causing cancer.

GHS Classification:

Oxidizing Solid Category 1, Carcinogenicity Category 2, Acute Toxicity - Oral Category 3

Other Safety Precautions:

In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

IF exposed or concerned: Get medical advice/attention.

Section 3

Composition / Information on Ingredients

Chemical Name Potassium bromate <u>CAS #</u> 7758-01-2 <u>%</u> 100

Section 4

First Aid Measures

Carbon dioxide, Carbon monoxide, Hydrogen Bromide, Potassium Oxide

Emergency and First Aid Inhalation: Eyes: Skin Contact: Ingestion:	 Aid Procedures In case of accident by inhalation: remove casualty to fresh air and keep at rest. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. IF ON CLOTHING: rinse immediately contaminated clothing and skin with plenty of water before removing clothes. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. 					
Section 5		Firefighting Procedures				
Extinguishing Media: Fire Fighting Methods and Protection:		Use media suitable to extinguish surrounding fire. Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.				
Fire and/or Explosion Hazards:		Explosive when mixed with oxidising substances. Risk of explosion by shock, friction, fire				

or other sources of ignition. Product is a strong oxidizer. Keep away from ... (incompatible materials to be indicated by the manufacturer).

Hazardous Combustion Products:

Spill or Leak Procedures

Section 6

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation. Do not allow the spilled product to enter public drainage system or open waterways. Avoid creating dusts. Cover material with absorbent and moisten. Eliminate sources of ignition and collect for disposal.

Handling and Storage

Handling:

Section 7

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Keep/Store away from clothing/.../combustible materials. Take any precaution to avoid mixing with combustibles. Wash thoroughly after handling. Do no eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. Use personal protective equipment as required. Wear fire/flame resistant/retardant clothing. Keep container tightly closed in a cool, well-ventilated place. Keep away from ... (incompatible materials to be indicated by the manufacturer). Explosive when mixed with oxidising substances. Keep away from combustible material. Do not breathe dust. Store locked up. Keep container tightly closed in a cool, well-ventilated place.

Storage: Storage Code:

Section 8

Protection Information

Red - Flammables. Store in approved flammable containers. Store away from oxidizing materials.

	ACGIH		OSHA PEL	
Chemical Name	(TWA)	(STEL)	(TWA)	(STEL)
No data available	N/A	N/A	N/A	N/A
Control Parameters				
Engineering Measures:	No exposure limits exis might be required to ma			
Personal Protective Equipment (PPE):	•			
Respiratory Protection:	No respiratory protection required under normal conditions of use.			
Eye Protection:	Wear chemical splash goggles when handling this product. Have an eye wash station available.			
Skin Protection:	Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.			
Gloves:	No information availabl	e		

Section 9

Formula: KBrO3 Molecular Weight: 167.02 Appearance: Odor: No data available Odor Threshold: No data available pH: No data available Melting Point: No data available Boiling Point: No data available Flash Point: No data available Flammable Limits in Air: N/A

Physical Data

Vapor Pressure: N/A Evaporation Rate (BuAc=1): N/A Vapor Density (Air=1): 5.8 Specific Gravity: 3.34 Solubility in Water: Slightly Soluble Log Pow (calculated): No data available Autoignition Temperature: No data available Decomposition Temperature: No data available Viscosity: No data available Percent Volatile by Volume: 0 @ 21 °C

Section 10

Reactivity: Chemical Stability: Conditions to Avoid: Hazardous Decomposition Products: Hazardous Polymerization:

No data available Stable under normal conditions. None known. Potassium Oxide, Hydrogen Bromide, Carbon dioxide, Carbon monoxide Will not occur

Reactivity Data

Section 11

Toxicity Data

Routes of Entry Symptoms (Acute): Delayed Effects:	Inhalation, ingestion, eye Impaired Kidney Function, L No data available				
Acute Toxicity: Chemical Name Potassium bromate	-	AS Number 3-01-2	Oral LD50 Oral LD50 HAMSTER 388 mg/kg Oral LD50 Mouse 289 mg/kg Oral LD50 Rat 157 mg/kg	Dermal LD50 Not determined	Inhalation LC50 Not determined
Carcinogenicity: Chemical Name Potassium bromate	-	AS Number 3-01-2	IARC Listed	NTP Not listed	OSHA Listed
Chronic Effects: Mutagenicity: Teratogenicity: Sensitization: Reproductive: Target Organ Effects Acute: Chronic:	No evidence of a mutagenic effect. No evidence of a teratogenic effect (birth defect). No evidence of a sensitization effect. No evidence of negative reproductive effects. See Section 2 Tests on laboratory animals indicate material may produce adverse mutagenic and reproductive effects.				
Section 12		Ec	ological Data		
Overview: Mobility: Persistence: Bioaccumulation: Degradability: Other Adverse Effect:	No data No data No data No data	ot expected to b	be harmful to the ecolo	gy.	
Chemical Name N/A		S Number E 8-01-2	Eco Toxicity		
Section 13		Dispo	osal Informati	on	
Disposal Methods: Waste Disposal Code	contact a permitted waste disposer (TSD) to assure compliance.				
Section 14		Trans	port Informat	ion	
Ground - DOT Proper UN1484, Description:	• Shipping Name: Potassium bromate, 5.1, II		Air - IATA Proper S UN number: 1484 C name: Potassium br	lass: 5.1 Packing grou	up: II Proper shipping
Section 15		Regula	atory Informa	tion	
TSCA Status:	All compo	nents in this pr	oduct are on the TSCA	A Inventory.	
Chemical Name	CAS Number	§ 313 Name	§ 304 RQ CEF	RCLA RQ § 302 T	TPQ CAA 112(2) TQ

WARNING: This product contains a chemical known to the state of California to cause cancer, birth defects or other reproductive harm.

California Prop 65:

Section 16

Additional Information

Revised: 09/09/2015

Replaces: 09/03/2014

Printed: 10-29-2015

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary ACGIH	American Conference of Governmental	NTP	National Toxicology Program
	Industrial Hygienists	OSHA	Occupational Safety and Health Administration
CAS	Chemical Abstract Service Number	PEL	Permissible Exposure Limit
CERCLA	Comprehensive Environmental Response,	ppm	Parts per million
	Compensation, and Liability Act	RCRA	Resource Conservation and Recovery Act
DOT	U.S. Department of Transportation	SARA	Superfund Amendments and Reauthorization Act
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
N/A	Not Available	TSCA IDLH	Toxic Substances Control Act Immediately dangerous to life and health