SAFETY DATA SHEET

1 – PRODUCT AND COMPANY IDENTIFICATION

Product Name: **POTASSIUM BROMIDE**

Product Code: P-3850

Product use: For laboratory or industrial use only

Supplier: Cochimbec Inc.
8561 chemin Dalton
Town of Mount-Royal, Quebec
H4T 1V5 CANADA

Telephone: 514-990-1935
Emergency Telephone: (CANUTEC): 613-996-6666

2 – HAZARDS IDENTIFICATION

GHS Classification: Eye irritation (Category 2B)
Specific target organ toxicity – single exposure (Category 3) Respiratory tract

Signal word:		**Warning**
Hazard statement:	H320	Causes eye irritation.
	H335	May cause respiratory irritation.
Precautionary statement:	P260	Do not breath dust / fume / gas / mist / vapours / spray.
	P264	Wash skin thoroughly after handling.
	P271	Use only outdoors or in a well-ventilated area.
	P280	Wear protective gloves/protective clothing/eye protection/face protection.
	P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
	P305 + P351 + P338 + P312	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER / Doctor if you feel unwell.
	P403	Store in a well-ventilated place.
	P404	Store in a closed container.

	P405	Store locked up.
	P501	Dispose of contents / container to an approved waste disposal plant.

3 – COMPOSION / INFORMATION ON INGREDIENTS

Synonyms: **Bromide salt of Potassium, Hydrobromic acid Potassium salt**

INGREDIENT	Concentration	CAS No.	EC No.	Index No.
POTASSIUM BROMIDE	95-100 %	7758-02-3	231-830-3	- -

4 – FIRST AID MEASURES

Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Give oxygen if breathing is difficult. Call for medical assistance.
Skin contact:	Wash immediately with water. Consult a physician if irritation persists.
Eye contact:	Rinse immediately and cautiously with water for 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists get medical advice/attention.
Ingestion:	Rinse mouth. Drink plenty of water. Call a POISON CENTER or doctor if you feel unwell.
Most important symptoms / effects	The most important symptoms/effects are presented in Section 2 and/or 11. Treat symptomatically. Irritation to eyes, nose, throat, lungs.

5 – FIRE-FIGHTING MEASURES

Extinguishing media:	Substance is non-flammable. Use agent most appropriate to extinguish surrounding fire.
Combustion Exposure Hazards:	Hazardous decomposition products formed under fire conditions: Potassium Oxides and halogen compounds.
Fire-Fighting equipment and precaution:	Wear a positive-pressure self-contained breathing apparatus if necessary. NIOSH / MSHA approved or equivalent. Wear normal firefighting gear suitable for surrounding fire. Self-contained respiratory protection may be required.
Sensitivity to mechanical impact:	Not sensitive.
Sensitivity to static discharge:	Not sensitive.

NFPA Risk 0=Low 4=High	HEALTH	FLAMMABILITY	REACTIVITY	HAZARDS
	2	0	1	

6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Use personal protective equipment. Use in a properly ventilated area.
Environmental Precautions:	Prevent further leakage or spillage using personal protection. Avoid product entering into drains.

Method & Material for containment and cleaning up:	Product may be wet-brushed and placed in a container for disposal. Keep in suitable closed container for disposal.

7 – HANDLING AND STORAGE

Precautions for safe handling:	Wear personal protective equipment. Ensure proper ventilation. Do not get on skin, eyes and clothing. Avoid ingestion and inhalation. Avoid dust formation.
Conditions for Safe Storage:	Keep container tightly closed in a well-ventilated area.

8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

COMPONENTS WITH WORKPLACE CONTROL PARAMETERS

This product does not contain any dangerous substance that has occupational exposure limits as established by those responsible to set the rules specific to the region.

Eye Protection:	Safety glasses or chemical safety goggles.
Hand Protection:	Use chemical resistant gloves. (rubber or PVC) Gloves should be resistant to product. Refer to glove manufacturer for appropriate type and glove thickness.
Body Protection:	None normally required.
Respiratory Protection:	Use NIOSH (US) or CEN (EU) approved respirators if irritation or other symptoms are experienced. Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 143. None required in properly vented areas. If ventilation is not available, wear a respirator.
Engineering Controls:	Ensure adequate ventilation.

9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Solid	**Auto ignition temperature:**	N / D
Color:	White	**Upper Explosion Limit:**	N / D
Odour:	Odorless	**Lower Explosion Limit:**	N / D
Odour threshold::	N / D	**Vapour pressure:**	<0.01 mm Hg @ 20°C
pH:	5 - 8.8 for 5% solution	**Vapour density: (air = 1)**	N / A
Melting point:	734°C	**Relative density**	N / D
Boiling point:	1435°C	**Water solubility:**	650 g/L @ 20°C
Boiling range:	N / D	**Decomposition temperature:**	>800 °C
Density	2.74 g/cc @ 25°C	**Refractive Index:**	1.559
Flash point:	N / A	**Viscosity:**	N / A
Evaporation rate: (n-Butyl Acetate = 1)	N / A	**Partition coeficient: n-octanol / water**	N / D

10 – STABILITY AND REACTIVITY

Chemical stability:	Stable under recommended storage conditions. Moisture sensitive.
Possibility of hazardous reactions:	None known.
Conditions to avoid:	Incompatible products, Excess heat.. Avoid dust formation.
Incompatible materials:	Strong oxidizing agents.
Hazardous decomposition products:	Hazardous decomposition products formed under fire conditions: Potassium Oxides, halogen compounds.

11 – TOXICOLOGICAL INFORMATION

COMPONENTS	**LD_{50} ORAL**	**LD_{50} DERMAL**	**LC_{50} INHALATION**
Potassium Bromide	3,070 mg/kg (rat)	- -	- -
Skin Corrosion / irritation	May cause respiratory tract irritation.		
Serious eye damage / eye irritation	Eye irritation		
Respiratory or skin sensitisation	No data available.		
Germ cell Mutagenicity	No data available.		
Carcinogenicity	This product **does not** contain any compounds listed by NTP, IARC, ACGIH or OSHA classified as a carcinogen.		
Reproductive toxicity	No data available.		
Teratogenicity	No data available.		
Aspiration hazard	No data available.		
Symptoms of Exposure	No data available.		
Synergistic effects	No data available.		
Addition information	To the best of our knowledge, the toxicological properties have not been thoroughly investigated. Consult the correspondent article from RTECS for complete information.		

12 – ECOLOGICAL INFORMATION

COMPONENTS	**Toxicity to fish**	**Toxicity to daphnia and other aquatic invertebrates**	**Toxicity to Algea**
POTASSIUM BROMIDE	LC_{50} – Pimephales promelas (Fathead minnow) – >30 mg/L – 96 h.	EC_{50} – Daphnia Magna (Water flea) – >30 mg/L – 96 h.	- -
Persistence and degradability	Water soluble, therefore persistence is unlikely.		
Bioaccumulative potential	No data available.		
Mobility in soil	Will likely be mobile in the environment due to its water solubility.		

PBT and vPvB assessment	No data available
Other adverse effects	No data available

13 – DISPOSAL CONSIDERATIONS

Product	Ensure proper disposal compliance with authorities before disposal. Do not dispose in drain.
Contaminated clothing	Wash before reusing clothes.
Contaminated packaging	Dispose as unused product above. Dispose of packaging in a safe manner to comply with local, state and federal regulations.

14 – TRANSPORT INFORMATION

	TDG	IMDG	IATA
Shipping Name:	Not Regulated	Not Regulated	Not Regulated

15 – REGULATORY INFORMATION

US Regulations	SDS complies with OSHA's Hazard Communication Rule 29, CFR 1910.1200
Canada Classification	Canada WHMIS: SDS in compliance with provisions of information as set out in Canadian Standard – Part 4, Schedule 1 and 2 of the Hazardous Products Regulations (HPR) and meets the requirements of the HPR (Paragraph 13(1)9a) of the Hazardous Product Act (HPA).
International	Europe EINECS Numbers: 231-830-3

16 – OTHER INFORMATION

Information on the preparation of SDS:	Prepared by Cochimbec Inc. Safety Personnel Jan. 18, 2019 Revision 0 I.C. 1,7,17
Abbreviations:	ACGIH = American Conference of Governmental Industrial Hygienists ASTM = American Society for Testing and Materials BCF = Bioconcentration Factor CAS = Chemical Abstract Services CCOHS = Canadian Center for Occupational Health & Safety CEN (EU) = Committée Européen de Normalisation CERCLA = Comprehensive Environmental Response Compensation & Liability Act CFR = Code of Federal Regulations CMR = Carcinogenic-mutagenic-toxic for reproduction CPR = Controlled Products Regulations DIN = German Institute for Standardisation

	DOT = Department of Transport EC_{50} = Half maximal effect concentration EINECS = European Inventory of Existing Commercial Chemical Substances GHS = Global Harmonization System GLP = Good Laboratory practice GMO = Genetic Modified Organism IARC = International Agency for research on Cancer IATA = International Air Transport Association ISO = International Organisation for Standardisation IDLH = Immediate danger to life and health IMDG = International Maritime Dangerous Goods LC_{50} = Lethal concentration causing 50% death LD_{50} = Lethal dose causing 50% death LOAEL = Lowest Observed Adverse Effect Level LOEL = Lowest Observed Effect Level N/A = Not Applicable N/D = No Data N/E = Not Established NFPA = National Fire Protection Association NIOSH = National Institute for Occupational Safety & Health NTP = National Toxicology Program OECD = Organisation for Economic Co-operation & Development OEL = Occupational exposure limit OHSC = Occupational health & safety council (committee) OSHA = Occupational Safety & Health Administration PBT = Persistent, Bioaccumulation, Toxic PEL = Permissible Exposure Limit RCRA = Resource Conservation & Recovery Act RTECS = Registry of Toxic Effects of Chemical Substances SARA = Species at Risk Act STEL = Short term exposure limit STEV = Short term exposure value STOT = Specific Target Organ Toxicity TDG = Transport of Dangerous Goods TLV = Threshold limit value TMD = Transport de Matières Dangereuses TSCA = Toxic Substance Control Act TWA = Time weighted Average TWAEV = Time weighted average exposure value UN = United Nations vPvB = very Persistent and very Bioaccumulative VOC = Volatile Organic Compounds WEEL = Workplace Environment Exposure Limit WHO = World Health Organisation WHMIS = Workplace Hazardous Material Information System W/V = Weight / Volume W/W = Weight / Weight

Disclaimer:	Cochimbec Inc. expressly disclaims all express or implied warranties of merchantability and fitness for a particular purpose, with respect to the product or information provided herein, and shall under no circumstances be liable for incidental or consequential damages. The information herein is provided in good faith and believed to be correct as of the date shown above but does not purport to be all inclusive and shall be used only as a guide. We also urge each user of this product, to study this SDS carefully and becomne aware of and understand the hazards associated with this product. Since conditions for use of the product are not under the control of the manufacturer, it is the user's responsibility to determine the conditions necessary for the safe use of this product. This information relates only to the product designated herein, and does not relate to its use in combination with other material or in any other process. Do not use ingredient information and / or ingredient percentages in this SDS as a product specification.

End of Safety Data Sheet