MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Identification

1.1 Product identifiers

Product Name : **Potassium bromide**

Catalog Codes: **11230, 21230, 31230**

CAS No. : 7758-02-3

1.2 Relevant identified uses of the substance or mixture and uses advised against

Recommended uses : Laboratory chemicals

Uses advised against: Food, drug, pesticide or biocidal product use.

1.3 Details of the supplier of the safety data sheet

Company : Krishna Solvechem Limited.
B/503, Sahayog, S. V. Road,
Kandivali (West), Mumbai – 400067. India.

Telephone : +91-22-6123 0222

Email : exports@kscl.co.in

1.4 Emergency telephone number

Emergency Phone : +91-8657457330

SECTION 2: Hazards identification

2.1 Potential Acute Health Effects :

Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation

2.2 Potential chronic Health Effects:

CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available.DEVELOPMENTAL TOXICITY: Not available. The substance is toxic to the nervous system. The substance may be toxic to central nervous system (CNS). Repeated or prolonged exposure to the substance can produce target organs damage.

SECTION 3: Composition / information on ingredients

3.1

Component	CAS-No	Weight %
Potassium bromide	7758-02-3	100

Toxicological Data on Ingredients: Potassium bromide: ORAL (LD50): Acute: 3070 mg/kg [Rat]. 3120 mg/kg [Mouse].

SECTION 4: First aid measures

4.1 Description of first aid measures

General Advice:	If symptoms persist, call a physician.
If inhalation :	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.
In case of skin contact :	Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops. Cold water may be used.
In case of eye contact :	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention if irritation occurs
Ingestion :	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear
4.2 Notes to Physician :	Treat symptomatically

SECTION 5: Firefighting effects

5.1 Extinguishing media

Suitable extinguishing media	Non flammable
Unsuitable Extinguishing Media: :	No information available

5.2	**Flash Point :**	Not applicable
	Method :	No information available

Autoignition Temperature:	No information available
Explosion Limits:	
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available
Specific Hazards Arising from the Chemical :	Non-explosive in presence of open flames and sparks, of shocks, of heat.
Hazardous Combustion Products :	Not available

SECTION 6: Accidental release measures

6.1 Small Spill:

Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water onthe contaminated surface and dispose of according to local and regional authority requirements.

6.2 Large spill:

Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on thecontaminated surface and allow to evacuate through the sanitary system.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Do not ingest. Do not breathe dust. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents, acids.

7.2	Conditions for safe storage
	Keep container tightly closed. Keep container in a cool, well-ventilated area.

SECTION 8: Exposure controls/personal protection

8.1 Engineering Controls

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

8.2 Exposure controls

Personal protection -

Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent.Gloves.

Personal protection in case of a Large Spill :

Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits :

Not available

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Appearance	Solid. (Crystalline solid. Crystals solid)
b) Odour	Odorless
c) Taste	Saline. Bitter. Pungent. (Strong)
d) pH	7 (neutral)
e) Melting point / freezing point	730 °C / 1346 °F
f) Initial boiling point and	1435 °C / 2615 °F @ 760 mmHg

boiling range	
g) Flash point	Not available
h) Evaporation rate	No information available
i) Flammability (solid, gas)	Not applicable
j) Upper/lower flammability or explosive limits	No data available No data available
k) Vapour pressure	Not applicable
l) Vapour density	Not available
m) Specific Gravity	2.75 (water = 1)
n) Solubility	Easily soluble in cold water, hot water. Slightly soluble in diethyl ether. Insoluble in acetate. Solubility in water: 1 g/1.5 mlSolubiltiy in boiling water: 1 g/1 ml Solubility in alcohol: 1 g/250 ml Solubility in boiling alcohol: 1g 21 ml
o) Partition coefficient: n octanol/water	No data available
p) Auto-ignition temperature	No information available
q) Decomposition temperature	No information available
r) Viscosity	No information available
s) Molecular formula	KBr
t) Molecular Weight	119 g/mole

SECTION 10: Stability and Reactivity

10.1	**Reactive Hazard :**	Hygroscopic; keep container tightly closed. Incompatible with heavy metal salts. Reacts violently with bromine trifluoride
10.2	**Chemical stability :**	Stable under normal conditions.
10.3	**Possibility of hazardous reactions :**	None under normal processing.
10.4	**Conditions to avoid :**	Incompatible products. Moisture
10.5	**Corrosivity :**	Non – corrosive in presence of glass
10.6	**Incompatibility with various substances :**	Reactive with oxidizing agents, acids.
10.7	**Hazardous Polymerization**	Hazardous polymerization does not occur

SECTION 11: Toxicological information

11.1

Information on toxicological effects

Acute toxicity:

Acute oral toxicity (LD50): 3070 mg/kg [Rat]

Routes of entry :

Inhalation. Ingestion.

Chronic effects on Humans:

Causes damage to the following organs: the nervous system. May cause damage to the following organs: central nervoussystem (CNS).

Other Toxic Effects on Humans: Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: May affect genetic material (mutagenic)

Special Remarks on other Toxic Effects on Humans:

Acute Potential Health Effects: Skin: May cause skin irritation. Eyes: May cause eye irritation. Inhalation: May cause respiratory tract irritation. Ingestion: Causes gastrointestinal tract irritation (gastritis) with vomiting, diarrhea. It may also affect the urinary system/kidneys (anuria, acute nephroisis, uremia, kidney hemolysis, fatty degeneratioin of the kidney, kidney damage), liver (fatty liver degeneration. It may affect the brain/central nervous system (central nervous depression, hallllucinations, psychosis, drowsiness, irritability, confusion, mania, ataxia, vertigo, mental deterioration, somnolence), eyes (enlarge pupils with subnormal reaction to light, miosis, diplopia).

SECTION 12: Ecological information

12.1 Ecotoxicity:	Not available
12.2 BOD5 and COD:	Not available
Products of Biodegradation:	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
12.3 toxicity of the products of Biodegradation:	The product itself and its products of degradation are not toxic.
12.4 Special remarks on the products of Biodegradation:	Not available

SECTION 13: Disposal considerations

13.1 Waste treatment 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.

SECTION 14: Transport information

14.1 DOT Classification :

Not a DOT controlled material (United States)

14.2 Identification :

Not applicable

14.3 Special provisions for Transport :

Not applicable

SECTION 15: Regulatory information

15.1 Federal and State Regulations: TSCA 8(b) inventory: Potassium bromide

Other Regulations: EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications:

WHMIS (Canada): CLASS D-2A: Material causing other toxic effects (VERY TOXIC).

DSCL (EEC):

This product is not classified according to the EU regulations. S24/25- Avoid contact with skin and eyes. S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S28- After contact with skin, washimmediately with plenty of water.

15.2 HMIS (U. S. A) :

Health Hazard: 1

Fire hazard: 0

Reactivity: 0

Personal Protection: E

15.3 National Fire Protection Association (U. S. A.):

Health : 1

Flammability : 0

Reactivity : 0

15.4 Protective Equipment:

Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respiratorwhen ventilation is inadequate. Safety glasses.

SECTION 16: Other information

16.1 Prepared By:	Regulatory affairs Krishna Solvechem Limited
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Revision Summary:	This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under29 C FR 1910.1200 to align with the Globally Harmonized System ofClassification and Labeling of Chemicals (GHS).

16.2 Disclaimer:

The information provided in 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.