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MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Identification

1.1 Product identifiers

Product Name : 2-Bromo-2-methylpropionyl bromide
Cat No.: AC40309000; AC403090050; AC403091000; AC403095000
CAS No. : 20769-85-1

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 Ltd.
B/503, Shayog, 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 Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity	(Category 4)
Skin corrosion/Irritation	(Category 1 B)
Serious Eye damage / Eye irritation	(Category 1)
Skin sensitization	(Category 1)
Germ Cell Mutagenicity	(Category 1 B)
Specific target organ toxicity single exposure	(Category 3)
Target organs – Respiratory system	

2.2 Label elements

Pictogram :

Signal word Danger

Hazard statement (s) Highly flammable liquid and vapor



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Precautionary statement (s)

Prevention

May cause an allergic skin reaction
Causes severe skin burns and eye damage
May cause respiratory irritation
May cause genetic defects

Wash face, hands and any exposed skin thoroughly after handling
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required.
Wear protective gloves
Avoid breathing dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Do not eat, drink or smoke when using this product
Contaminated work clothing should not be allowed out of the workplace

Inhalation :

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

IF ON SKIN (or hair):

If skin irritation occurs: Get medical advice/attention

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

Eyes:

IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

Ingestion

Rinse mouth. Do NOT induce vomiting.

Storage:

Store locked up Store in a well-ventilated place.

Keep container tightly closed



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	<p>Disposal: Dispose of contents/container to an approved waste disposal plant</p>
<p>Hazards not otherwise classified (HNOC)</p>	<p>None identified</p>

SECTION 3: Composition / information on ingredients

3.1

Component	CAS-No	Weight %
Propanoyl bromide, 2-bromo-2-methyl-	20769-85-1	>95

SECTION 4: First aid measures

4.1 Description of first aid measures

General Advice:	Show this data sheet to the doctor in attendance. Immediate medical attention is required.
If inhalation :	If not breathing, give artificial respiration. Remove from exposure, lie down. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician immediately.
In case of skin contact :	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.
In case of eye contact :	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
Ingestion :	Do NOT induce vomiting. Clean mouth with water. Never give anything by mouth to an unconscious person. Call a physician immediately.
4.2 Most important symptoms and effects :	Causes burns by all exposure routes. May cause allergic skin reaction. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation: Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing
4.3 Notes to Physician :	Treat symptomatically



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SECTION 5: Firefighting effects

5.1 Extinguishing media			
Suitable extinguishing media :	Water spray, carbon dioxide (CO ₂), dry chemical, alcohol-resistant foam, dry sand.		
Unsuitable Extinguishing Media: :	No information available		
5.2 Flash Point :	No information available		
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 :	Thermal decomposition can lead to release of irritating gases and vapors. The product causes burns of eyes, skin and mucous membranes.		
Hazardous Combustion Products :	Carbon monoxide (CO). Carbon dioxide (CO ₂). Hydrogen halides		
5.4 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. Thermal decomposition can lead to release of irritating gases and vapors		
<u>NFPA:</u>	Health	Flammability	Instability
	3	1	1
			Physical hazards
			N/A

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures	Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
6.2 Environmental precautions	Should not be released into the environment.
6.3 Methods and materials for containment and cleaning up	Keep in suitable, closed containers for disposal. Soak up with inert absorbent material.



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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Use only under a chemical fume hood. Do not breathe mist/vapors/spray. Do not ingest. If swallowed then seek immediate medical assistance. Handle under an inert atmosphere.

7.2 Conditions for safe storage

Corrosives area. Store under an inert atmosphere. Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from moisture. Incompatible Materials. Bases. Strong oxidizing agents. Alcohols. Amines. Metals.

SECTION 8: Exposure controls/personal protection

8.1 Exposure Guidelines

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Engineering Measures

Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.

8.2 Exposure controls

Personal protective equipment -

Eye / Face 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.

Skin protection and body protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory protection

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.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice..



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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties	
a) Appearance	Form: Liquid, light yellow
b) Odour	pungent
c) Odour Threshold	No information available
d) pH	No information available
e) Melting point / freezing point	No data available
f) Initial boiling point and boiling range	162 - 164 °C / 323.6 - 327.2 °F
g) Flash point	No information 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	No information available
l) Vapour density	7.93
m) Specific Gravity	1.860
n) Solubility	Reacts with water
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	C ₄ H ₆ Br ₂ O
t) Molecular Weight	229.9



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STOT - repeated exposure:	None known
Aspiration hazard :	No information available.
Symptoms / effects,both acute and delayed:	Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation: Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing
Endocrine Disruptor Information :	No information available
Other Adverse Effects :	The toxicological properties have not been Fully investigated.

SECTION 12: Ecological information

12.1 Ecotoxicity:	Do not empty into drains. Do not flush into surface water or sanitary sewer system. Reacts with water so no ecotoxicity data for the substance is available
12.2 Persistence and degradability:	Persistence is unlikely
Bioaccumulation/ Accumulation	No information available
12.3 Mobility:	Will likely be mobile in the environment due to its volatility. Is not likely mobile in the environment. Log Pow : 1.516

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 UN number :				
DOT : UN3265	TDG : UN3265			
IATA : UN3265	IMDG : UN3265			
14.2 UN proper shipping name				
D O T :	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.			
TDG :	Corrosive liquid, acidic, organic, n.o.s.			
IATA :	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.			
IMDG :	Corrosive liquid, acidic, organic, n.o.s.			
14.3 Transport hazard class(es)	DOT: 8	TDG: 8	IATA: 8	IMDG: 8
14.4 Packaging group:	DOT: II	TDG: II	IATA: II	IMDG: II



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15.2 U.S. State Right-to-Know Regulations:					
Not applicable					
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 the any DHS Chemicals.					
Other International Regulations					
Mexico – Grade No information available					
Authorization/Restrictions according to EU REACH					
Safety, health and environmental regulations/legislation specific for the substance or mixture					
Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Propanoyl bromide,2-bromo-2-methyl-	20769-85-1	Not applicable	Not applicable	Not applicable	Not applicable
Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Propanoyl bromide,2-bromo-2-methyl-	20769-85-1	Not applicable	Not applicable	Not applicable	Not applicable
SECTION 16: Other information					
16.1 Prepared By:		Regulatory affairs Krishna Solvechem Ltd			
Email:		exports@kscl.co.in			
Creation Date:		22-Sep-2009			
Revision Date:		26-Dec-2021			
Print Date:		26-Dec-2021			
Revision Summary:		This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 C FR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).			



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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.