MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Identification

1.1 Product identifiers

Product Name : **2-Bromooctanoic acid**

CAS No. : 2623-82-7

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 Classification

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

Skin Corrosion/Irritation	(Category 1B)

2.2 Label elements

Pictogram :

Signal word Danger

Hazard statement (s) Causes severe skin burns and eye damage

Precautionary statement (s)	
Prevention	
	Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area **Inhalation :** IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell **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 **Storage:** Store locked up
2.3 Other hazards	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) atlevels of 0.1% or higher. Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation(EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation(EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition / information on ingredients

3.1

Component	CAS-No	Weight %
2-Bromooctanoic acid	2623-82-7	<=100

SECTION 4: First aid measures

4.1 Description of first aid measures

General Advice:	First aiders need to protect themselves. Show this material safety data sheet to the doctorin attendance.
If inhalation :	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.
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 :	Clean mouth with water and drink afterwards plenty of water.
4.2 Most important symptoms and effects :	The most important known symptoms and effects are described in the labelling (see section2.2) and/or in section 11
4.3 Notes to Physician :	Treat symptomatically

SECTION 5: Firefighting effects

5.1 Extinguishing media

Suitable extinguishing media	Water Foam, carbon dioxide (CO2), dry powder
Unsuitable Extinguishing Media:	For this substance/mixture no limitations of extinguishing agents are given
5.2 Flash Point :	>113 °C
Method :	Closed cup

	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 :	Combustible. Development of hazardous combustion gases or vapours possible in the event of fire
	Hazardous Combustion Products :	Carbon Oxides. Hydrogen bromide gas
5.3	**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.
5.4	**Further Information:**	Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions(see sections 7 and 10). Take up with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

For precautions see section 2.2

7.2	**Conditions for safe storage**

Storage conditions
Tightly closed. Keep locked up or in an area accessible only to qualified or authorized persons. Light sensitive. Store under inert gas.

Storage class
Storage class (TRGS 510): 8A: Combustible, corrosive hazardous materials

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters

8.2 Exposure controls

Personal protective equipment -

Eye / Face protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Tightly fitting safety goggles

Skin protection and body protection
Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory protection
required when vapours/aerosols are generated.
Our recommendations on filtering respiratory protection are based on the followingstandards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system. Recommended Filter type:
Filter type ABEK

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer.
These measures have to be properly documented.

Control of environmental exposure
Do not let product enter drains

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Appearance	Light yellow Liquid
b) Odour	No information available
c) Odour Threshold	No information available
d) pH	No information available
e) Melting point / freezing point	No data available
f) Initial boiling point and	140 °C at 7 hpa

	boiling range	
	g) Flash point	>113 °C – closed cup
	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 data available
	l) Vapour density	1,278 g/mL at 25 °C
	m) Specific Gravity	No data available
	n) Solubility	No information available
	o) Partition coefficient: n octanol/water	No data available
	p) Auto-ignition temperature	No information available
	q) Decomposition temperature	No data available
	r) Viscosity	No information available
	s) Molecular formula	C8 H15 Br O2
	t) Molecular Weight	223.11 g/mol

SECTION 10: Stability and Reactivity

10.1	**Reactive Hazard :**	None known, based on information available
10.2	**Chemical stability :**	The product is stable under standard ambient conditions (room temperature)
10.3	**Possibility of hazardous reactions :**	No data available
10.4	**Conditions to avoid :**	No information available
10.5	**Incompatible materials:**	Strong oxidizing agents
10.6	**Hazardous decomposition products :**	In the event of fire : see section 5

SECTION 11: Toxicological information

11.1
Information on toxicological effects

Acute toxicity:

Product Information: No acute toxicity information is available for this product

Component Information

Toxicologically Synergistic Products No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation : No information available

Sensitization: No information available

Carcinogenicity : The table below indicates whether each agency ha Any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
2-Bromooctanoic acid	2623-82-7	Not listed	Not listed	Not listed	Not listed	Not listed

Mutagenic Effects: No information available.

Reproductive Effects: No information available.

Developmental Effects : No information available.

Teratogenicity: No information available.

STOT - single exposure : None known

STOT - repeated exposure: None known

Aspiration hazard : No information available.

Symptoms / effects,both acute and delayed: No data available

Endocrine Disruptor Information : No information available

Other Adverse Effects : The toxicological properties have not been fully investigated.

SECTION 12: Ecological information

12.1 Toxicity:	No data available
12.2 Persistence and degradability:	No data available
Bioaccumulation/ Accumulation	No information available
12.3 Mobility:	No data available

12.4 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) atlevels of 0.1% or higher.

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 :	ADR/RID: 3265 IMDG: 3265 IATA: 3265		
14.2 UN proper shipping name			
ADR/RID :	CORROSIVE LIQUID, ACIDIC, ORGANIC, N. O. S.		
IMDG :	CORROSIVE LIQUID, ACIDIC, ORGANIC, N. O. S.		
IATA :	Corrosive liquid, acidic, organic, n. o. s.		
14.3 Transport hazard class(es)	ADR/RID: 8	IMDG: 8	IATA: 8
14.4 Packaging group:	ADR/RID: II	IMDG: II	IATA: II

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2 Other regulations

Take note of Dir 94/33/EC on the protection of young people at work

15.3 Chemical safety Assessment

For this product a chemical safety assessment was not carried out

SECTION 16: Other information

16.1	**Prepared By:**	Regulatory affairs Krishna Solvechem Limited
	Email:	exports@kscl.co.in
	Creation Date:	23-Mar-2012
	Revision Date:	19-Oct-2023
	Print Date:	19-Oct-2023
	Revision Summary:	This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under29 C F R 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.