



## MATERIAL SAFETY DATA SHEET (MSDS)

### SECTION 1: Identification

#### 1.1 Product identifiers

**Product Name :** Methyl-2-Bromooctanoate  
**CAS No. :** 5445-22-7

#### 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)

Acute toxicity	(Category 4)
Skin Corrosion/Irritation	(Category 1A, 1B, 1C)
Serious Eye Damage/Eye Irritation	(Category 1)

#### 2.2 Label elements

**Pictogram :**



**Signal word**

Danger

**Hazard statement (s)**

**H302 :** Harmful if swallowed

**H314 :** 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

Do not eat, drink or smoke when using this product

**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

**Disposal:**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

None identified



### SECTION 3: Composition / information on ingredients

#### 3.1

Component	CAS-No	Weight %
Methyl-2-bromooctanoate	5445-22-7	99

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

<b>General Advice:</b>	If symptoms persist, call a physician. Move out of dangerous area
<b>If inhalation :</b>	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.
<b>In case of skin contact :</b>	Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.
<b>In case of eye contact :</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
<b>Ingestion :</b>	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
<b>4.2 Most important symptoms and effects :</b>	The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
<b>4.3 Notes to Physician :</b>	Treat symptomatically

### SECTION 5: Firefighting effects

#### 5.1 Extinguishing media

<b>Suitable extinguishing media</b>	Alcohol-resistant foam, dry chemical or carbon dioxide
<b>Unsuitable Extinguishing Media</b>	No information available



**Specific Hazards Arising from the Chemical :** In combustion toxic fumes may form.

**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.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. Do not attempt to take action without suitable protective clothing. For personal protection see section 8.

### 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains or river. Alert the neighbourhood to the presence of fumes or gas

### 6.3 Methods and materials for containment and cleaning up

Mix with sand or vermiculite. Sweep up and shovel. Transfer to a closable, labelled salvage container for disposal by an appropriate method

### 6.4 Reference to other sections

For disposal see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Wash hands thoroughly after handling. Ensure the sufficient ventilation of the area. Normal measures for preventive fire protection. For precautions see section 2.2.

### 7.2 Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated area. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep in dark place inert atmosphere room temperature.



## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Components with work place control parameters

Contains no substances with occupational exposure limit values.

#### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of work.

### 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

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands

##### Body protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

##### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

##### 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	Colorless to slight yellow liquid
b) Odour	No information available
c) Odour Threshold	No information available
d) pH	6.0 – 8.0
e) Melting point / freezing point	No data available
f) Initial boiling point and	228 °C



<b>boiling range</b>	
<b>g) Flash point</b>	102 °C
<b>h) Evaporation rate</b>	No information available
<b>i) Flammability (solid, gas)</b>	Not applicable
<b>j) Upper/lower flammability or explosive limits</b>	No data available No data available
<b>k) Vapour pressure</b>	No data available
<b>l) Density</b>	1.221 g/cm <sup>3</sup>
<b>m) Refractive index</b>	1.46
<b>n) Solubility</b>	No data available
<b>o) Partition coefficient: n octanol/water</b>	No data available
<b>p) Auto-ignition temperature</b>	No information available
<b>q) Decomposition temperature</b>	No data available
<b>r) Viscosity</b>	No information available
<b>s) Molecular formula</b>	C <sub>9</sub> H <sub>17</sub> Br O <sub>2</sub>
<b>t) Molecular Weight</b>	237.13
<b>SECTION 10: Stability and Reactivity</b>	
<b>10.1 Reactive Hazard :</b>	No data available
<b>10.2 Chemical stability :</b>	Stable under recommended storage conditions
<b>10.3 Possibility of hazardous reactions :</b>	No data available
<b>10.4 Conditions to avoid :</b>	No data available
<b>10.5 Incompatible materials:</b>	Strong oxidizing agents
<b>10.6 Hazardous decomposition products :</b>	Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> ), Hydrogen bromide



## 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 has Any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Methyl-2-bromo octanoate	5445-22-7	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 information available

**Endocrine Disruptor Information :** No information available

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



## SECTION 12: Ecological information

<b>12.1 Ecotoxicity:</b>	No data available
<b>12.2 Persistence and degradability:</b>	No data available
<b>Bioaccumulation/ Accumulation</b>	No information available
<b>12.3 Mobility:</b>	No information available

## SECTION 13: Disposal considerations

<b>13.1 Waste treatment methods:</b>	<p>Disposal Operations</p> <p>Consult state, local or national regulations for proper disposal. Hand over to authorized disposal company as hazardous waste.</p> <p>Disposal of packaging</p> <p>Disposal must be made according to official regulations</p>
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## SECTION 14: Transport information

<b>14.1 UN number :</b>	ADR/RID: 3265 IMDG: 3265 IATA: 3265
<b>14.2 UN proper shipping name</b>	
<b>ADR/RID :</b>	Corrosive liquid, acidic, organic, n. o. s.
<b>IMDG :</b>	Corrosive liquid, acidic, organic, n. o. s.
<b>IATA :</b>	Corrosive liquid, acidic, organic, n. o. s.
<b>14.3 Transport hazard class(es)</b>	ADR/RID: 8                      IMDG: 8                      IATA: 8
<b>14.4 Packaging group:</b>	ADR/RID: II                      IMDG: II                      IATA: II

## SECTION 15: Regulatory information

<b>15.1 Safety, health and environmental and national regulations</b>	Product is not subject to any additional regulations or provisions
<b>Safety Assessment</b>	No chemical safety Assessment





## SECTION 16: Other information

<b>16.1 Prepared By:</b>	Regulatory affairs Krishna Solvechem Limited
<b>Email:</b>	exports@kscl.co.in
<b>Revision Summary:</b>	This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 C F R 1910.1200 to align with the Globally Harmonized System of Classification 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.

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
1-Bromo-2-methylpropan e	-	X	-	-	-