



## KSCL

### MATERIAL SAFETY DATA SHEET (MSDS)

#### SECTION 1: Identification

##### 1.1 Product identifiers

**Product Name :** 1-Bromohexadecane

**Cat No. :** AC215430000; AC215430010; AC215430050; AC215432500

##### 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, Sahyog, S. V. Road,  
Kandivali (West), Mumbai – 400067. India.

**Telephone :** +91-22-6123 0222

**Email :** [exports@kscl.co.in](mailto:exports@kscl.co.in)

##### 1.4 Emergency telephone number

**Emergency Phone :** +91-8657457330

#### SECTION 2: Hazards identification

##### 2.1 Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard(29 CFR 1910.1200)

##### 2.2 Label elements

None required

##### 2.3 Hazards not otherwise classified (HNOC)

None identified



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### SECTION 3: Composition / information on ingredients

#### 3.1

| Component            | CAS No   | Concentration % |
|----------------------|----------|-----------------|
| Hexadecane, 1-bromo- | 112-82-3 | 97              |

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

|  |   |
|--|---|
| <b>If inhalation :</b>                           | Remove from exposure, lie down. Remove to fresh air   |
| <b>In case of skin contact :</b>                 | Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. 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>                               | Clean mouth with water. Get medical attention.  |
| <b>4.2 Most important symptoms and effects :</b> | Difficulty in breathing. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. |
| <b>4.3 Notes to Physician :</b>                  | Treat symptomatically   |

### SECTION 5: Firefighting effects

#### 5.1 Extinguishing media

|  |   |
|--|---|
| <b>Suitable extinguishing media</b>      | Water spray, carbon dioxide (CO <sub>2</sub> ), dry chemical, alcohol-resistant foam. |
| <b>Unsuitable Extinguishing Media: :</b> | No information available  |
| <b>5.2 Flash Point :</b>                 | 177 °C / 350.6 °F   |
| <b>Method :</b>                          | No information available  |



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|   |  |
|---|--|
| <b>Autoignition Temperature:</b>                    | No data available  |
| <b>Explosion Limits:</b>                            |  |
| <b>Upper</b>  | No data available  |
| <b>Lower</b>  |  |
| <b>Sensitivity to Mechanical Impact</b>             | No information available   |
| <b>Sensitivity to Static Discharge</b>              | No information available   |
| <b>Specific Hazards Arising from the Chemical :</b> | Keep product and empty container away from heat and sources of ignition. |
| <b>Hazardous Combustion Products :</b>              | Carbon monoxide, Carbon dioxide, 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.

**NFPA**

| Health | Flammability | Instability | Physical hazards |
|--------|--------------|-------------|------------------|
| 0      | 0            | 0           | N/A              |

### SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures**  
Use personal protective equipment as required. Ensure adequate ventilation.
- 6.2 Environmental precautions**  
See section 12 for additional Ecological Information
- 6.3 Methods and materials for containment and cleaning up**  
Sweep up and shovel into suitable containers for disposal.

### SECTION 7: Handling and storage

- 7.1 Precautions for safe handling**  
Avoid contact with skin and eyes. Do not breathe mist/vapors/spray.
- 7.2 Conditions for safe storage**  
Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Incompatible materials. Strong oxidizing agents. Strong bases.



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### 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

None under normal use conditions

#### 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

No protective equipment is needed under normal use conditions.

###### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

|                                   |                          |
|-----------------------------------|--------------------------|
| a) Appearance                     | Form: Liquid, Amber      |
| b) Odour                          | No data available        |
| c) Odour Threshold                | No information available |
| d) pH                             | No information available |
| e) Melting point / freezing point | 17.3 °C / 63.1 °F        |
| f) Initial boiling point and      | 336 °C / 636.8 °F        |



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|  |                                    |
|--|------------------------------------|
| <b>boiling range</b>                                   |                                    |
| <b>g) Flash point</b>                                  | 177 °C / 350.6 °F                  |
| <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                  |
| <b>k) Vapour pressure</b>                              | <1 mmHg @ 20 °C                    |
| <b>l) Vapour density</b>                               | No data available                  |
| <b>m) Specific Gravity</b>                             | 0.999                              |
| <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 data available                  |
| <b>q) Decomposition temperature</b>                    | No information available           |
| <b>r) Viscosity</b>                                    | No data available                  |
| <b>s) Molecular formula</b>                            | C <sub>16</sub> H <sub>33</sub> Br |
| <b>t) Molecular Weight</b>                             | 305.33                             |

### SECTION 10: Stability and Reactivity

|  |   |
|--|---|
| <b>10.1 Reactive Hazard :</b>                    | None known, based on information available                              |
| <b>10.2 Chemical stability :</b>                 | Stable under normal conditions  |
| <b>10.3 Possibility of hazardous reactions :</b> | No data available   |
| <b>10.4 Conditions to avoid :</b>                | Incompatible products   |
| <b>10.5 Incompatible materials:</b>              | Strong oxidizing agents, strong bases                                   |
| <b>10.6 Hazardous decomposition products :</b>   | Carbon monoxide(CO), Carbon dioxide(CO <sub>2</sub> ), Hydrogen halides |



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### SECTION 11: Toxicological information

#### 11.1

#### Information on toxicological effects

#### Acute toxicity:

#### Product Information:

#### Component Information

| Component            | LD50 Oral  | LD50 Dermal               | LC50 Inhalation |
|----------------------|------------|---------------------------|-----------------|
| Hexadecane, 1-bromo- | Not listed | LD50 > 2000 mg/kg ( Rat ) | Not listed      |

**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 listed any ingredient as a carcinogen

| Component            | CAS No   | IARC       | NTP        | ACGIH      | OSHA       | Mexico     |
|----------------------|----------|------------|------------|------------|------------|------------|
| Hexadecane, 1-bromo- | 112-82-3 | 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** Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

**Endocrine Disruptor Information** No information available

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



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### SECTION 12: Ecological information

|   |   |
|---|---|
| <b>12.1 Ecotoxicity:</b>                      | Do not empty into drains  |
| <b>12.2 Persistence and degradability:</b>    | Insoluble in water  |
| <b>12.3 Bioaccumulation/<br/>Accumulation</b> | No information available  |
| <b>12.4 Mobility:</b>                         | Is not likely mobile in the environment due to its low water solubility |

### 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

|                   |               |
|-------------------|---------------|
| <b>14.1 DOT :</b> | Not regulated |
| <b>TDG :</b>      | Not regulated |
| <b>IATA :</b>     | Not regulated |
| <b>IMDG/IMO :</b> | Not regulated |

### SECTION 15: Regulatory information

#### 15.1 United States of America Inventory

| Component            | CAS-No   | TSCA | TSCA Inventory notification<br>Active/Inactive | TSCA - EPA<br>Regulatory Flags |
|----------------------|----------|------|--|--------------------------------|
| Hexadecane, 1-bromo- | 112-82-3 | X    | ACTIVE   | -                              |

Legend :







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|   |  |
|---|--|
| <b>U. S. Department of Homeland Security</b>  | This product does not contain any DHS chemicals. |
| <b>Other International Regulations</b>  |  |
| <b>Mexico – Grade</b>   | No information available                         |
| <b>Authorization/Restrictions according to EU REACH</b>   |  |
| <b>Safety, health and environmental regulations/legislation specific for the substance or mixture</b> |  |

| Component            | CAS No   | OECD HPV       | Persistent Organic Pollutant | Ozone Depletion Potential | Restriction of Hazardous Substances (RoHS) |
|----------------------|----------|----------------|------------------------------|---------------------------|--|
| Hexadecane, 1-bromo- | 112-82-3 | 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) |
|----------------------|----------|---|--|----------------------------|------------------------------------|
| Hexadecane, 1-bromo- | 112-82-3 | Not applicable  | Not applicable   | Not applicable             | Not applicable                     |

### SECTION 16: Other information

|                         |   |
|-------------------------|---|
| <b>16.1 Prepared by</b> | Regulatory Affairs<br>Krishna Solvechem Ltd<br><a href="mailto:exports@kscl.co.in">exports@kscl.co.in</a>   |
| <b>Revision Date</b>    | 24-Dec-2021   |
| <b>Print Date</b>       | 24-Dec-2021   |
| <b>Revision Summary</b> | This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS). |

#### 16.2 Further information

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.