



## MATERIAL SAFETY DATA SHEET (MSDS)

### SECTION 1: Identification

#### 1.1 Product identifiers

**Product Name :** 1,4-Dibromobenzene  
**Cat No.:** AC161280000; AC161280010; AC161280050; AC161281000;  
AC161285000  
**CAS No. :** 110-52-1

#### 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 Limited.  
B/503, Shayog, 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 considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity	(Category 3)
Skin Corrosion/Irritation	(Category 2)
Serious Eye Damage/Eye Irritation	(Category 1)
Specific target organ toxicity (single exposure)	(Category 3)
Target Organs - Respiratory system.	

#### 2.2 Label elements

**Pictogram :**



**Signal word** Danger

**Hazard statement (s)** May cause respiratory irritation



**Precautionary statement (s)**

Causes skin irritation  
Causes serious eye irritation  
Harmful if swallowed

**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

Do not eat, drink or smoke when using this product

**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

**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.

**Storage:**

Store locked up Store in a well-ventilated place.

Keep container tightly closed

**Ingestion:**

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.



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

### SECTION 3: Composition / information on ingredients

**3.1**

Component	CAS-No	Weight %
Butane,1,4-dibromo-	110-52-1	<=95%

### 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. If not breathing, give artificial respiration. Get medical attention if symptoms occur.
<b>In case of skin contact :</b>	Wash off immediately with plenty of water while removing all contaminated clothes and shoes. Get medical attention.
<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>	Causes eye burns. Causes severe eye damage.
<b>4.3 Notes to Physician :</b>	Treat symptomatically

### SECTION 5: Firefighting measures

**5.1 Extinguishing media**

<b>Suitable extinguishing media</b>	Water spray, carbon dioxide (CO <sub>2</sub> ), dry chemical, chemical foam.
<b>Unsuitable Extinguishing Media</b>	No information available
<b>5.2 Flash Point :</b>	112 °C / 233.6 °F
<b>Method :</b>	No information available



<b>Autoignition Temperature:</b>	No information available
<b>Explosion Limits:</b>	
<b>Upper</b>	No data available
<b>Lower</b>	No data available
<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 (CO). Carbon dioxide (CO <sub>2</sub> ). Hydrogen bromide

<b>5.4 Protective Equipment and Precautions for Firefighters:</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.			
<b><u>NFPA:</u></b>	<b>Health</b>	<b>Flammability</b>	<b>Instability</b>	<b>Physical hazards</b>
	3	0	0	N/A

## SECTION 6: Accidental release measures

<b>6.1 Personal precautions, protective equipment and emergency procedures</b>	Ensure adequate ventilation. Use personal protective equipment as required.
<b>6.2 Environmental precautions</b>	See section 12 for additional Ecological information
<b>6.3 Methods and materials for containment and cleaning up</b>	Soak up with inert absorbent material (eg sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable closed containers for disposal. Do not let this chemical enter the environment.

## SECTION 7: Handling and storage

<b>7.1 Precautions for safe handling</b>	
--	--



Avoid contact with skin and eyes. Do not breathe mist/vapors/spray. Do not ingest. If swallowed then seek immediate medical assistance.

## 7.2 Conditions for safe storage

Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Refer product specification and/or product label for specific storage temperature requirement.

## 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

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, light yellow
b) Odour	No data available
c) Odour Threshold	No information available
d) pH	No information available



e) melting point/freezing point	-20 °C / -4 °F
f) initial boiling point and boiling range	197 °C / 386.6 °F @ 760 mmHg
g) Flash point	112 °C / 233.6 °F
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	Not applicable
m) Specific Gravity	1.808
n) Solubility	No data available
o) Partition coefficient: n octanol/water	No data available
p) Auto-ignition temperature	Not applicable
q) Decomposition temperature	No data available
r) Viscosity	No information available
s) Molecular formula	C <sub>4</sub> H <sub>8</sub> Br <sub>2</sub>
t) Molecular Weight	215.92

### SECTION 10: Stability and Reactivity

10.1 Reactive Hazard :	None known, based on information available
10.2 Chemical stability :	Stable under normal conditions.
10.3 Possibility of hazardous reactions :	None under normal processing.
10.4 Conditions to avoid :	Excess heat. Exposure to light. Incompatible products. Exposure To moist air or water.
10.5 Incompatible materials:	Strong oxidizing agents, strong bases, strong acids
10.6 Hazardous decomposition products :	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 hasAny ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Butane,1,4-dibromo-	110-52-1	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 :** Respiratory system

**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

<b>12.1 Ecotoxicity:</b>	Do not empty into drains.
<b>12.2 Persistence and degradability:</b>	Persistence is unlikely
<b>Bioaccumulation/ Accumulation</b>	No information available
<b>12.3 Mobility:</b>	will likely to be mobile in the environment due to its water solubility component : butane,1,4-dibromo- <b>Log pow : 2.621</b>

## 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 UN number :</b>				
<b>TDG :</b>	UN2810			
<b>IMDG :</b>	UN2810			
<b>IATA :</b>	UN2810			
<b>DOT :</b>	UN2810			
<b>14.2 UN proper shipping name</b>				
<b>TDG :</b>	Toxic liquid, organic, n.o.s.			
<b>IMDG :</b>	Toxic liquid, organic, n.o.s.			
<b>IATA :</b>	Toxic liquid, organic, n.o.s.			
<b>DOT :</b>	TOXIC LIQUIDS, ORGANIC, N. O. S.			
<b>14.3 Transport hazard class(es)</b>	<b>TDG : 6.1</b>	<b>IMDG : 6.1</b>	<b>IATA : 6.1</b>	<b>DOT : 6.1</b>
<b>14.4 Packaging group:</b>	<b>TDG : III</b>	<b>IMDG : III</b>	<b>IATA : III</b>	<b>DOT : III</b>

## SECTION 15: Regulatory information

**15.1 United states of America Inventory:**

Component	CAS-No	TSCA	TSCA Inventory notification Active/Inactive	TSCA - EPA Regulatory Flags
Butane,1,4-dibromo-	110-52-1	X	ACTIVE	-







**U.S. Department of Homeland Security** - This product does not contain the any DHS Chemicals.

**Other International Regulations**

**Mexico – Grade** No information available

**Authorisation/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)
Butane,1,4-dibromo-	110-52-1	Not applicable	Not applicable	Not applicable	Not applicable

**Seveso III Directive(2012/18/EC) -Qualifying Quantitiesfor Major Accident Notification**

Not applicable

**Seveso III Directive(2012/18/EC) -Qualifying Quantities for Safety Report Requirements**

Not applicable

**Rotterdam Convention (PIC)**

Not applicable

**Basel convention (Hazardous Waste)**

Annex I – Y45

**SECTION 16: Other information**

<b>16.1 Prepared By:</b>	Regulatory affairs Krishna Solvechem Ltd
<b>Email:</b>	exports@kscl.co.in
<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 C FR 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.