

## **MATERIAL SAFETY DATA SHEET (MSDS)**

**SECTION 1: Identification** 

1.1 Product identifiers

Product Name: 1,5-Dibromopentane

Cat No.: AC155990000; AC155990010; AC155990050; AC155992500

**CAS No.:** 111-24-0

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)

Flammable liquids	(Category 4)
Skin Corrosion/Irritation	(Category 2)
Serious Eye Damage/Eye Irritation	(Category 2)
Acute oral toxicity	(Category 4)

#### 2.2 Label elements

Pictogram:



Signal word Warning

Hazard statement (s) Combustible liquid



Causes skin irritation Causes serious eye irritation Harmful if swallowed

Precautionary statement (s)

**Prevention** 

Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves/protective clothing/eye protection/face protection

Do not eat, drink or smoke when using this product. Keep away from heat/sparks/open flames/hot surfaces. - No smoking

#### 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

#### Fire

In case of fire: Use CO2, dry chemical, or foam for extinction

#### Storage:

Store in a well-ventilated place. Keep cool.

#### 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 %	
Pentane, 1,5-dibromo-	111-24-0	97	

## **SECTION 4: First aid measures**

4.1	Description of first aid measures				
	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. Get medical attention		Clean mouth with water. Get medical attention			
4.2	Most important symptoms and effects :	Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting			
4.3	Notes to Physician :	Treat symptomatically			

# **SECTION 5: Firefighting effects**

#### **Extinguishing media** 5.1

Suitable extinguishing media Water spray, carbon dioxide (CO2), dry chemical, alcohol-

resistant foam. Water mist may be used to cool closed

containers.

**Unsuitable Extinguishing** 

Media::

No information available

79 °C / 174.2 °F 5.2 Flash Point:

> No information available Method:



**Autoignition Temperature:** 

No information available

**Explosion Limits:** 

No data available Upper Lower No data available

**Sensitivity to Mechanical** 

**Impact** 

No information available

**Sensitivity to Static** No information available

Discharge

the Chemical:

**Specific Hazards Arising from** Combustible material. Flammable. Containers may explode

when heated.

**Hazardous Combustion** 

**Products:** 

Carbon monoxide (CO). Carbon dioxide (CO2). 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
2	2	0	N/A

#### **SECTION 6: Accidental release measures**

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

Remove allsources of ignition. Take precautionary measures against static discharges

#### 6.2 **Environmental precautions**

See section 12 for additional Ecological Information.

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

Keep in suitable, closed containers for disposal. Soak up with inert absorbent material. Remove all sources of ignition. Do not let this chemical enter the environment.

## **SECTION 7: Handling and storage**

#### 7.1 **Precautions for safe handling**

Avoid contact with skin and eyes. Do not breathe mist/vapors/spray. Do not ingest. If swallowed then seek immediate medical assistance. Keep away from open flames, hot surfaces and sources of ignition.



## 7.2 Conditions for safe storage

Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Keep away from heat, sparks and flame. Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible Materials. Strong oxidizing agents. Strong bases.

## **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..

# 9.1 Information on basic physical and chemical properties

9.1	information on basic physical and chemical properties		
	a) Appearance	Form: Liquid, yellow	
	b) Odour Odorless		
	c) Odour Threshold	No information available	
	d) pH	No information available	
	e) Melting point / freezing point	-34 °C / -29.2 °F	
	f) Initial boiling point and 224 °C / 435.2 °F @ 760 mmHg		



79 °C / 174.2 °F
No information available
Not applicable
No data available
No data available
No information available
8
1.680
No information available
No data available
No information available
No information available
No information available
No information available
C5 H10 Br2
C3 H10 B12

	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	10.3 Possibility of hazardous None under normal processing. reactions:					
10.4	Conditions to avoid:	Keep away from open flames, hot surfaces and sources of ignition. Excess heat. Exposure to light. Incompatible products.				
10.5	Incompatible materials:	Strong oxidizing agents, Strong bases				
10.6	Hazardous decomposition products :	Carbon monoxide (CO), Carbon dioxide (CO2), Hydrogen halides				
10.7	Hazardous Polymerization	No information available				



# **SECTION 11: Toxicological information**

11.1

Information on toxicological effects

**Acute toxicity:** 

Product Information: 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
Pentane,1,5-	111-24-	Not listed	Not	Not listed	Not listed	Not listed
dibromo-	0		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:	Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nau and vomiting	
Endocrine Disruptor Information :	No information available	
Other Adverse Effects :	The toxicological properties have not been fully investigated.	



	SECTION 12: Ecological information					
12.1 Ecoto	12.1 Ecotoxicity: Do not empty into drains.					
12.2 Persistence and degradability:		Insoluble in water. May persist based on information				
	Bioaccumulation/ Accumulation	No information available				
12.3	Mobility:	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					
14.1	DOT: UN-No:	COMBUSTIBLE LIQUID, NOT REGULATED FOR TRANSPORT IN THIS QUANTITY According to 49 CFR §173.150(f)(1), this material should reclassified as NA1993, Combustible Liquid, NOS if it is shipped in bulk.  NA 1993				
	Proper shipping name: Combustible liquid, n. o. s.					
	Packing group :	III				
14.2	TDG:	Not regulated				
14.3	IATA:	Not regulated				
14.4	IMDG/IMO:	Not regulated				

# **SECTION 15: Regulatory information**

## 15.1 United states of America Inventory:

Component	CAS-No	TSCA	TSCA Inventory notification Active/Inactive	TSCA - EPA Regulatory Flags
Pentane,1,5-	111-24-	X	ACTIVE	-
Dibromo	0			

Legend:



**TSCA** - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

'-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

#### **International Inventories:**

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Australia (AICS), China (IECSC), Korea (ECL).

Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Pentane,1,5- dibromo-	111-24- 0	Х	-	203-849-7	Х	Х	Х	Х	Х	KE- 09947

#### **U.S. Federal Regulations**

SARA 313 Not applicable

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act) Not applicable

Clean Air Act Not applicable

OSHA - Occupational Safety and

**Health Administration** 

Not applicable

**CERCLA** Not applicable

California Proposition 65 This product does not contain any

Proposition 65chemicals.

## 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** - This product does not contain the any DHS Chemicals. **Security** 

#### **Other International Regulations**

Mexico – Grade No information available

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

Salety, health and environmental regulations, legislation specific for the substance of mixture								
Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)			
Pentane, 1,5- dibromo-	111-24-0	Not applicable	Not applicable	Not applicable	Not applicable			

## **SECTION 16: Other information**

**16.1 Prepared By:** Regulatory affairs

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**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).

#### 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.