



MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Identification

1.1 Product identifiers

Product Name : 1,4-Dibromobenzene
Cat No.: AC112730000; AC112730010; AC112730025; AC112730050;
AC112732500
CAS No. : 106-37-6

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)

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

2.2 Label elements

Pictogram :



Signal word

warning

Hazard statement (s)

May cause respiratory irritation



**Precautionary
statement (s)**

Prevention

Causes skin irritation
Causes serious eye irritation

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

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

Store locked up



	<p>Disposal: Dispose of contents/container to an approved waste disposal plant</p>
<p>Hazards not otherwise classified (HNOC)</p>	<p>Toxic to aquatic life with long lasting effects.</p>

SECTION 3: Composition / information on ingredients

3.1

Component	CAS-No	Weight %
p-Dibromobenzene	106-37-6	99%

SECTION 4: First aid measures

4.1 Description of first aid measures

If inhalation :	Remove from exposure, lie down. 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 while removing all contaminated clothes and shoes. Get medical attention.
In case of eye contact :	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
Ingestion :	Do NOT induce vomiting. Get medical attention.
4.2 Most important symptoms and effects :	Irritating to eyes.
4.3 Notes to Physician :	Treat symptomatically

SECTION 5: Firefigh effects

5.1 Extinguishing media

Suitable extinguishing media	Water spray, carbon dioxide (CO ₂), dry chemical, chemical foam.
Unsuitable Extinguishing Media	No information available
5.2 Flash Point :	No data available
Method :	No information available



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	Keep product and empty container away from heat and sources of ignition. Thermal decomposition can lead to release of irritating gases and vapors.								
Hazardous Combustion Products :	Carbon monoxide (CO). Carbon dioxide (CO ₂). 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.								
<u>NFPA:</u>	<table border="1"> <thead> <tr> <th>Health</th> <th>Flammability</th> <th>Instability</th> <th>Physical hazards</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>0</td> <td>0</td> <td>N/A</td> </tr> </tbody> </table>	Health	Flammability	Instability	Physical hazards	2	0	0	N/A
Health	Flammability	Instability	Physical hazards						
2	0	0	N/A						

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures	Ensure adequate ventilation. Use personal protective equipment as required. Avoid Contact with skin, eyes or clothing. Avoid dust formation.
6.2 Environmental precautions	Do not flush into surface water or sanitary sewer system.
6.3 Methods and materials for containment and cleaning up	Sweep up and shovel into suitable containers for disposal. Do not let this chemical enter the Environment. Avoid dust formation.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
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Avoid contact with skin and eyes. Do not breathe mist/vapors/spray. Do not ingest. If swallowed then seek immediate medical assistance. Ensure adequate ventilation. Wear personal protective equipment/face protection. Avoid dust formation.

7.2 Conditions for safe storage

Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Keep under nitrogen. Incompatible Materials. Strong oxidizing agents.

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

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European standard EN 149. Use a NOISH/MSHA or European standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

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: solid, off-white
b) Odour	No data available
c) Odour Threshold	No information available
d) pH	No information available



e) melting point/freezing point	86 - 89 °C / 186.8 - 192.2 °F
f) initial boiling point and boiling range	219 °C / 426.2 °F @ 760 mmHg
g) Flash point	No information available
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	33 hPa @ 61 °C
l) Vapour density	Not applicable
m) Specific Gravity	1.840
n) Solubility	insoluble
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	C ₆ H ₄ Br ₂
t) Molecular Weight	235.91

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 :	Incompatible products.
10.5 Incompatible materials:	Strong oxidizing agents
10.6 Hazardous decomposition products :	Carbon monoxide (CO), Carbon dioxide (CO ₂), Hydrogen halides



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 : irritating to eyes, respiratory system and skin

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
p-Dibromobenzene	106-37-6	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. See actual entry in RTECS for complete information.



SECTION 12: Ecological information

12.1 Ecotoxicity:	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Microtox=EC50=2.84 mg/L 30 min
12.2 Persistence and degradability:	Insoluble in water may persist based on information Available
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 UN number :				
TDG :	UN3077			
IMDG :	UN3077			
IATA :	UN3077			
DOT :	UN3077			
14.2 UN proper shipping name				
TDG :	Environmentally hazardous substances, solid, n.o.s.			
IMDG :	Environmentally hazardous substances, solid, n.o.s.			
IATA :	Environmentally hazardous substances, solid, n.o.s.			
DOT :	Environmentally hazardous substances, solid, n.o.s.			
14.3 Transport hazard class(es)	TDG : 9	IMDG : 9	IATA : 9	DOT : 9
14.4 Packaging group:	TDG : III	IMDG : III	IATA : III	DOT : III

SECTION 15: Regulatory information

15.1 United states of America Inventory:

Component	CAS-No	TSCA	TSCA Inventory notification Active/Inactive	TSCA - EPA Regulatory Flags
p-Dibromobenzene	106-37-6	X	ACTIVE	-

Legend:



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)
p-Dibromobenzene	106-37-6	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

16.1 Prepared By:

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Limited

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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.

