

MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Identification

1.1 Product identifiers

Product Name: Benzyl bromide

Cat No.: AC105870000; AC105870010; AC105870050; AC105871000;

AC105872500; AC105875000

CAS No.: 100-39-0

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 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)

Flammable liquids	(Category 4)	
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) Combustible liquid



Causes skin irritation
Causes serious eye irritation
May cause respiratory irritation

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
Use only outdoors or in a well-ventilated area
Keep away from heat/sparks/open flames/hot surfaces. - No
smoking
Keep cool

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: GetImedica advice/attention

Fire

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

Storage:

Store in a well-ventilated place. Keep container tightly closed
Store locked up



Disposal:

Dispose of contents/container to an approved waste disposal

plant

Hazards not otherwise classified (HNOC)

Lachrymator (Substance which increases the flow of tears)

SECTION 3: Composition / information on ingredients

3.1

Component	CAS-No	Weight %
Benzyl bromide	100-39-0	>95

SECTION 4: First aid measures

4.1	Description of first aid measures				
	General Advice: If symptoms persist, call a physician.				
	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 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 and drink afterwards plenty of water.			
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			
	·	<u> </u>			

SECTION 5: Firefighting effects

5.1 Extinguishing media

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

5.2 Flash Point : 86 °C / 186.8 °F

Method: No information available



Autoignition Temperature:

No information available

Explosion Limits:

UpperNo data availableLowerNo data available

Sensitivity to Mechanical

Impact

No information available

Sensitivity to Static No information available

Discharge

Specific Hazards Arising from

the Chemical:

Combustible material. Risk of ignition. Containers may explode when heated. Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion

Products:

Carbon monoxide (CO). Carbon dioxide (CO2). Hydrogen

bromide

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.

Health	Flammability	Instability	Physical hazards
2	2	1	N/A

NFPA:

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment as required. Remove all sources of ignition. Take precautionary measures against static discharges

6.2 Environmental precautions

Should not be released into the environment.

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.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Ensure adequate ventilation. Avoid ingestion and inhalation. Keep away from open flames, hot surfaces and sources of ignition.



7.2 Conditions for safe storage

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away fromheat, sparks and flame. Protect from direct sunlight. 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

Use explosion-proof electrical/ventilating/lighting/equipment. Use only under a chemical fume hood. 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 FN166

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 StandardEN 149. Use a NIOSH/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 Clear Liquid b) Odour **Pungent** c) Odour Threshold No information available No information available d) pH -3 - -1 °C / 26.6 - 30.2 °F e) Melting point / freezing point f) Initial boiling point and 198 - 199 °C / 388.4 - 390.2 °F @ 760 mmHg



boiling range	
g) Flash point	86 °C / 186.8 °F
h) Evaporation rate	No information available
i) Flammability (solid, gas)	Not applicable
j) Upper/lower	No data available
flammability or	No data available
explosive limits	
k) Vapour pressure	0.49 mbar @ 20 °C
I) Vapour density	5.8 (Air = 1.0)
m) Specific Gravity	1.430
n) Solubility	No information available
o) Partition coefficient: n octanol/water	No data available
p) Auto-ignition temperature	No information available
q) Decomposition temperature	No information available
r) Viscosity	No information available
s) Molecular formula	C7 H7 Br
t) Molecular Weight	171.04

	SECTION 10: Stability and Reactivity				
10.1	Reactive Hazard :	None known, based on information available			
10.2	Chemical stability:	Light sensitive. Moisture sensitive			
10.3	Possibility of hazardous reactions :	None under normal processing.			
10.4	Conditions to avoid :	Keep away from open flames, hot surfaces and sources of ignition. Excess heat. Exposure to moist air or water. Incompatible products.			
10.5	Incompatible materials:	Strong oxidizing agents			
10.6	Hazardous decomposition products :	Carbon monoxide (CO), Carbon dioxide (CO2), Hydrogen bromide			
10.7	Hazardous Polymerization	Hazardous polymerization does not occur			



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 ha

Any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Benzyl bromide	100-39-	Not listed	Not	Not listed	Not listed	Not listed
	0		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:	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.



	SECTION 12: Ecological information					
12.1 Ecoto	oxicity:	Do not empty into drains.				
12.2	Persistence and degradability:	Soluble in water Persistence is unlikely based on information Available.				
	Bioaccumulation/ Accumulation	No information available				
12.3	Mobility:	Will likely be mobile in the environment due to its 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:

DOT: UN1737 TDG: UN1737 IATA: UN1737 IMDG: UN1737

14.2 UN proper shipping name

	DOT:	BENZYL BROMIDE			
	TDG:	BENZYL BROMIDE			
	IMDG:	BENZYL BROMIDE			
	IATA:	BENZYL BROMIDE			
14.3	Transport hazard class(es)	DOT: 6.1	TDG: 6.1	IMDG: 6.1	IATA: 6.1
14.4	Packaging group:	DOT: II	TDG: II	IMDG: II	IATA: II

SECTION 15: Regulatory information

15.1 United states of America Inventory:

Component	CAS-No	TSCA	TSCA Inventory notification Active/Inactive	TSCA - EPA Regulatory Flags
Benzyl bromide	100-39-0	X	ACTIVE	-

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), Japan (ISHL), Australia (AICS), China (IECSC), Korea (ECL).

Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Benzyl	100-39-	Х	-	202-847-3	Х	Χ	Х	Х	Х	-
bromide	0									

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 Not applicable

Health Administration

CERCLA Not applicable

California Proposition 65 This product does not contain any

Proposition 65chemicals.

15.2 U.S. State Right-to-Know Regulations:

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Benzyl bromide	X	Х	-	-	-

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 Slight risk, Grade 1
Authorization/Restrictions according to EU REACH

Component	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	REACH (1907/2006) - Annex XVII - Restrictions on Certain DangerousSubstances	REACH Regulation (EC 1907/2006) article 59 - CandidateList of Substances of Very High Concern (SVHC)
Benzyl bromide	-	Use restricted. See item 75. (see link for restriction details)	-

Safety, health 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)
Benzyl bromide	100-39-0	Not applicable	Not applicable	Not applicable	Not applicable

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantitiesfor Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantitiesfor Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Benzyl bromide	100-39-0	Not applicable	Not applicable	Not applicable	Not applicable

SECTION 16: Other information

16.1 Prepared By: Regulatory affairs

Krishna Solvechem

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

under29 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.