

MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Identification

1.1 Product identifiers

Product Name: 4-Bromophenol

Cat No.: A14873 CAS No.: 106-41-2

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)

Acute oral toxicity	(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) Harmful if swallowed



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 Do not eat, drink or smoke when using this product.

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: Get medical advice/attention

Ingestion

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

Storage:

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



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

4.2

Component	CAS-No	Weight %
Phenol, 4-bromo-	106-41-2	>95

SECTION 4: First aid measures

4.1 Description of first aid measur

General Advice:

	, , , , , , , , , , , , , , , , , , , ,
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

If symptoms persist, call a physician.

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. Get medical attention if symptoms occur.

Most important symptoms

and effects:

None reasonably foreseeable

Notes to Physician: 4.3 Treat symptomatically

SECTION 5: Firefigh effects

5.1 **Extinguishing media**

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

resistant foam.

Unsuitable Extinguishing

Media::

No information available

5.2 Flash Point: No information available

Method: No information available



Autoignition Temperature:

No information available

Explosion Limits:

No data available Upper No data available Lower

Sensitivity to Mechanical

Impact

No information available

No information available **Sensitivity to Static**

Discharge

the Chemical:

Specific Hazards Arising from Keep product and empty container away from heat and sources

of ignition.

Hazardous Combustion

Products:

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

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	1	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. Remove all sources of ignition. Take precautionary measures against static discharges

Environmental precautions 6.2

Should not be released into the environment.

6.3 Methods and materials for containment and cleaning up

Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed containers for disposal.

SECTION 7: Handling and storage

7.1 **Precautions for safe handling**

Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Avoid dust formation.



7.2 Conditions for safe storage

Keep container tightly closed in a dry, cool and well-ventilated place.

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: solid, light red			
	b) Odour	phenolic			
	c) Odour Threshold	No information available			
	d) pH	No information available			
	e) Melting point / freezing point	64 - 68 °C / 147.2 - 154.4 °F			
	f) Initial boiling point and	235 - 236 °C / 455 - 456.8 °F @ 760 mmHg			



boiling range	
g) Flash point	No information available
h) Evaporation rate	Not applicable
i) Flammability (solid, gas)	Not information available
j) Upper/lower	No data available
flammability or	No data available
explosive limits	
k) Vapour pressure	No information available
I) Vapour density	Not applicable
m) Specific Gravity	No information available
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	C6 H5 Br O
t) Molecular Weight	173.01

	SECT	ON 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. Avoid dust formation.
10.5	Incompatible materials:	Strong oxidizing agents, Strong bases
10.6	Hazardous decomposition products:	Carbon monoxide (CO), Carbon dioxide (CO2)
10.7	Hazardous Polymerization	Hazardous polymerization does not occur



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: irritating to eyes, respiratory system and skin

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
Phenol, 4-	106-41-	Not listed	Not	Not listed	Not listed	Not listed
bromo-	2		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 information available

Endocrine Disruptor Information : No information available

Other Adverse Effects: The toxicological properties have not been fully

investigated.



SECTION 12: Ecological information

12.1

Ecotoxicity:

Component	Freshwater Algae	Fresh water Fish	Microtox	Water Flea
Phenol, 4-bromo-	Not listed	Not listed	EC50 = 0.41 mg/L 5 min EC50 = 0.47 mg/L 30	C50: 5.59 mg/L 48h
			min	

12.2 Persistence and degradability: Persistence is unlikely

Bioaccumulation/

No information available

Accumulation

12.3 Mobility: Will likely be mobile in the environment due to its water

solubility.

Log Pow: 2.59

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: UN2811 **TDG:** UN2811 **IMDG:** UN2811

14.2 UN proper shipping name

DOT: TOXIC SOLIDS, ORGANIC, N.O.S.

TDG: Toxic solids, organic, n.o.s.

IMDG: Toxic solids, organic, n.o.s.

IATA: Toxic solids, organic, n.o.s.

14.3 Transport hazard class(es) DOT: 6.1 TDG: 6.1 IMDG: 6.1 IATA: 6.1

14.4 Packaging group: DOT: III TDG: III IMDG: III IATA: 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
Phenol,4- bromo-	106-41-2	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), Australia (AICS), China (IECSC), Korea (ECL).

Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	AICS	IECSC	KECL
Phenol, 4- bromo-	106-41- 2	-	Х	203-394-4	Х	Х	Х	Х	KE- 03700

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 65 chemicals.

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

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.