

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 th	e 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 numbe	r			
	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 Hazard statement (s)

warning 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

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

	SECTION 4: First aid measures					
4.1	Description of first aid measu	ires				
	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 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 and drink afterwards plenty of water. Get medical attention if symptoms occur.				
4.2	Most important symptoms and effects :	None reasonably foreseeable				
4.3	Notes to Physician :	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 : Method :	No information available No information available			



	Autoignition Temperature: Explosion Limits:	 No information available No data available No data available No information available No information available Keep product and empty container away from heat and sources of ignition. 					
	Upper						
	Lower						
	Sensitivity to Mechanical Impact						
	Sensitivity to Static Discharge						
	Specific Hazards Arising from the Chemical :						
	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

6.2 Environmental precautions

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
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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	1 Information on basic physical and chemical properties					
	a) Appearance Form: solid, light red					
b) Odourphenolicc) Odour ThresholdNo information available						
	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
l) 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

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	B Possibility of hazardous None under normal processing. reactions :				
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 <u>Acute toxicity:</u> 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 i	nformation			
12.1							
	xicity:	Frachwatar Algaa	Fresh water Fish	Microtox	Water Flea		
Component Freshwater Phenol, 4-bromo- Not listed		Freshwater Algae Not listed	Not listed	EC50 = 0.41 mg/L min EC50 = 0.47 mg/L min	5 C50: 5.59 mg/L 48h		
12.2	Persistence a	nd degradability:	Persistence is unlik				
	Bioaccumulat Accumulation	- /	information avail	able			
12.3	Mobility:Will likely be mobile in the environment due to its water solubility.Log Pow: 2.59						
		SECTION	13: Disposal co	nsiderations			
		assified as a hazardo national hazardous v			must also consult local and accurate		
		SECTION	l 14: Transport i	nformation			
	UN number : DOT: UN3077 IATA: UN3077 UN proper shi	⁷ IMI	G: UN3077 DG: UN3077				
	DOT :		vironmentally haz	ardous substance, s	solid n o s		
	TDG:			-			
TDG :Environmentally hazardous substance, solid, n. o. s.IMDG :Environmentally hazardous substance, solid, n. o. s.							
	IATA : Environmentally hazardous substance, solid, n. o. s.						
14.3	Transport haz		DOT: 9 TDG: 9 IMDG: 9				
	Packaging gro		DT: III TE	DG: III IMDG:	III IATA: III		
		SECTION	15: Regulatory	information			
15.1	United states	of America Inventor					
	Compone	nt CAS-No	TSCA	TSCA Invento notificatior Active/Inacti	n Regulatory Flags		
	Phenol,4- bromo-	106-41-2	X	ACTIVE	-		



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-	106-41-	-	Х	203-394-4	Х	Х	Х	Х	KE-
bromo-	2								03700

U.S. Federal Regulations

SARA 313		Not applicable
SARA 311/312 Hazard Catego	ries	See section 2 for more information
CWA (Clean Water Act)		Not applicable
Clean Air Act		Not applicable
OSHA - Occupational Safety an Health Administration	nd	Not applicable
CERCLA		Not applicable
California Proposition 65		This product does not contain any Proposition 65 chemicals.
15.2 U.S. State Right-to-Know Regu	ulations:	
Not applicable		
U.S. Department of Transport	tation	
Reportable Quantity (RQ):	Ν	
DOT Marine Pollutant	Ν	
DOT Severe Marine Pollutant	Ν	



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

Prepared By:	Regulatory affairs
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Email:	exports@kscl.co.in
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Print Date:	14-Feb-2020
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 ofClassification and Labeling of Chemicals (GHS).
	Email: Creation Date: Revision Date: Print Date:

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.