

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

		SECTION 1: Identification
1.1	Product identifiers	
	Product Name :	4-Nitrobenzyl bromide
	Product No.:	N13054
	CAS No. :	100-11-8
1.2	Relevant identified uses of the	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 s	afety 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	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)

Skin Corrosion/Irritation	(Category 1B)
Serious Eye Damage/Eye Irritation	(Category 1)
Specific target organ toxicity (single exposure)	(Category 3)
Target Organs - Respiratory system.	

#### 2.2 Label elements

Pictogram :

Signal word Hazard statement (s) Danger Causes severe skin burns and eye damage.



# May cause respiratory irritation

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
	Inhalation :
	IF INHALED: Remove victim to fresh air and keep at rest in a
	position comfortable for breathing Call a POISON CENTER o 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/attentio
	Ingestion:
	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
	Storage:
	Store in a well-ventilated place.Keep container
	tightly closed Store locked up
	Disposal:
	Dispose of contents/container to an approved waste dispos plant
Other Hazards	This substance/mixture contains no components
	considered to be either persistent, bioaccumulative and
	toxic (PBT), or very persistent and very bioaccumulative (vPvB) atlevels of 0.1% or higher. Lachrymator.



	SECTION 3: Composition / information on ingredients			
3.1				
	Component	CAS-No	Weight %	
	$\alpha$ -Bromo-4-nitrotoluene	100-11-8	<=100%	
	SE	CTION 4: First aid measures		
4.1	1 Description of first aid measures			
	General Advice:	First aiders need to protect the safety data sheet to the doctor		
	If inhalation :	After inhalation: fresh air. Call	in physician	
	In case of skin contact :	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.		
	In case of eye contact :			
	Ingestion :	-	drink water (two glasses at most), on). Call a physician immediately.	
4.2	Most important symptoms	The most important known syn	nptoms and effects are	
	and effects :	described in the labelling (see s 11	section2.2) and/or in section	
4.3	Notes to Physician :	Treat symptomatically		
		CTION 5: Firefighting effects		
5 1	Sci	chows. menghting effects		

	SECTION 5. Filenginning effects	
5.1	Extinguishing media	
	Suitable extinguishing media	Water foam Carbon dioxide (CO2) Dry powder
	Unsuitable Extinguishing Media:	For this substance/mixture no limitations of extinguishing agents are given
5.2	Flash Point : Method :	>100 °C No information available



	Autoignition Temperature: Explosion Limits:	No information available
	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	Combustible. Vapors are heavier than air and may spread along
	the Chemical :	floors. Forms explosive mixtures with air on intense heating. Development of hazardous combustion gases or vapors possible in the event of fire.
	Hazardous Combustion Products :	Carbon oxides, Nitrogen oxides, Hydrogen bromide gas
5.4	Advice for Firefighters:	Stay in danger area only with self-contained breathing apparatus. Prevent skin contact bykeeping a safe distance or by wearing suitable protective clothing.
5.5	Further information:	Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.
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# **SECTION 6: Accidental release measures**

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

Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

### 6.2 Environmental precautions

Do not let product enter drains

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

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

# **SECTION 7: Handling and storage**

# 7.1 Precautions for safe handling

For precautions see section 2.2



7.2	Conditions for safe storage	
	Storage class :	ightly closed. Dry. Storage class(TRGS 510): 8A: Combustible, corrosive hazardous naterials.
	SECTION 8: F	Exposure controls/personal protection
8.1	<b>Control Parameters</b> Ingredients with workplace of	ontrol parameters.
8.2		
		9: Physical and chemical properties
9.1	Information on basic physica	· ·
	a) Appearance	Form: solid
	b) Odour	No information available
	c) Odour Threshold	No information available
	d) pH e) Melting point / freezing point	No information available 96 - 99 °C - lit

f) Initial boiling point and 90 - 92 °C / 194 - 197.6 °F @ 760 mmHg



boiling range	
g) Flash point	>100 °C
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	No data available
l) Vapour density	No data available
m) Specific Gravity	No data available
n) Solubility	No data available
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	C7 H6 Br NO2
t) Molecular Weight	216.03 g/mol

# SECTION 10: Stability and Reactivity

10.1	Reactive Hazard :	Forms explosive mixtures with air on intense heating. A range from approx. 15 Kelvin below the flash point is to be Rated as critical. The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.
10.2	Chemical stability :	The product is chemically stable under standard ambient conditions (room temperature)
	Possibility of hazardous reactions : Conditions to avoid :	Violent reactions possible with : oxidizing agents, Bases, Alcohols, Amines Avoid moisture. Strong heating.
10.5	Incompatible materials:	Mild steel
10.6	Hazardous decomposition products :	In the event of fire: See section 5



# **SECTION 11: Toxicological information**

### 11.1

# Information on toxicological effects

### Acute toxicity:

Symptoms: If ingested, severe burns of the mouth and throat, as well as a danger ofperforation of the esophagus and the stomach.

Symptoms: mucosal irritations, Cough, Shortness of breath, Possible damages:, damage of respiratory Tract

Dermal: No data available

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation :	Causes serious eye damage
Sensitization:	No information available
Carcinogenicity :	No data available
Mutagenic Effects:	No information available.
Reproductive Effects:	No information available.
Developmental Effects :	No information available.
Teratogenicity:	No information available.
STOT - single exposure :	Respiratory Irritation
STOT - repeated exposure:	None known
Aspiration hazard :	No information available.

# 11.2 Additional Information

# Endocrine disrupting properties

## Product : Assessment

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. RTECS: XS7967000

Cough, Shortness of breath, Headache, Nausea, Vomiting Quantitative data on the toxicity of this product are not available.

Further data:

Handle in accordance with good industrial hygiene and safety practice.



	SECT.	ION 12. Feelesi	alinformation	
	SECI	ION 12: Ecologi	cal information	
12.1		Deneternet	inte ducine	
	oxicity:	Do not empty		
12.2	Persistence and degradability	/: No data availa	able	
	Bioaccumulation/ Accumulation	No informatic	n available	
12.3	Mobility:	No data availa	ible	
12.4	<b>Results of PBT and vPvB asse</b> This substance/mixture conta bioaccumulative and toxic (PE levels of 0.1% or higher.	ins no components		•
	SECTI	ON 13: Disposal	considerations	
	3.1 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.			
	SECT	ION 14: Transpo	ort information	
14.1	UN number :	ADR/RID: 3261 IMDG: 3261 IATA: 3261		
14.2	UN proper shipping name			
	ADR/RID :	CORROSIVE SOLI	D, ACIDIC, ORGANIC, N	1.O.S.
	IMDG :		D, ACIDIC, ORGANIC, N	
	IATA :	Corrosive solid, a	icidic, organic, n.o.s.	
14.3	Transport hazard class(es)	ADR/RID: 8	IMDG: 8	IATA: 8
14.4	Packaging group:	ADR/RID: II	IMDG: II	IATA: II
	SECTI	ON 15: Regulate	ory information	
15.1 15 2	substance or mixture This material safety data sho 1907/2006. Other regulations Take note of Dir 94/33/EC o	eet complies with t n the protection of	he requirements of Re	gulation (EC) No.
19 2	<b>Chemical safety Assessmer</b> For this product a chemical		was not carried out	



16.1	Prepared By:	Regulatory affairs
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	<b>Revision Summary:</b>	This document has been updated to comply with the US OSHA
		HazCom 2012 Standard replacing the current legislation
		under29 C F R 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.