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Benzotrichloride CAS No 98-07-7

MATERIAL SAFETY DATA SHEET SDS/MSDS

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1	Product identifiers Product name	:	Benzotrichloride
	CAS-No.	:	98-07-7
1.2	Relevant identified uses o	fth	e substance or mixture and uses advised against
	Identified uses	:	Laboratory chemicals, Industrial & for professional use only.
1.3	Details of the supplier of the Company	:	afety data sheet Central Drug House (P) Ltd 7/28 Vardaan House Ansari Road Daryaganj New Delhi-110002 INDIA
	Telephone Email	:	+91 11 49404040 care@cdhfinechemical.com
1.4	Emergency telephone nur Emergency Phone #	nbe :	

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 Acute toxicity, Oral (Category 4), H302 Acute toxicity, Inhalation (Category 3), H331 Skin irritation (Category 2), H315 Serious eye damage (Category 1), H318 Carcinogenicity (Category 1B), H350 Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

For the full text of the H-Statements mentioned in this Section, see Section 16.

Danger

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008 Pictogram



Signal word Hazard statement(s) H302

Harmful if swallowed.

H315	Causes skin irritation.
H318	Causes serious eye damage.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H350	May cause cancer.
Precautionary statement(s)	
P201	Obtain special instructions before use.
P261	Avoid breathing vapours.
P280	Wear protective gloves/ eye protection/ face protection.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P311	Call a POISON CENTER /doctor.
Supplemental Hazard Statements	none

Restricted to professional users.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. Lachrymator.

SECTION 3: Composition/information on ingredients

3.1	Substances Synonyms	:	(Trichloromethyl)benzene Benzotrichloride
	Formula Molecular weight CAS-No. EC-No. Index-No.	·····	C7H5CI3 195.48 g/mol 98-07-7 202-634-5 602-038-00-9

Hazardous ingredients according to Regulation (EC) No 1272/2008 Component Classification

Concentration

Benzo	trich	loride	
DEIIZU		IUIIUE	

CAS-No.	98-07-7	Acute Tox. 4; Acute Tox. 3;	<= 100 %
EC-No.	202-634-5	Skin Irrit. 2; Eye Dam. 1; Carc.	
Index-No.	602-038-00-9	1B; STOT SE 3; H302, H331,	
		H315, H318, H350, H335	

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

- 4.2 Most important symptoms and effects, both acute and delayed The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
- 4.3 Indication of any immediate medical attention and special treatment needed No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

- 5.2 Special hazards arising from the substance or mixture Carbon oxides, Hydrogen chloride gas
- 5.3 Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary.
- 5.4 Further information No data available

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.
- 6.2 Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
- 6.3 Methods and materials for containment and cleaning up Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.
- 6.4 Reference to other sections For disposal see section 13.

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling
 Avoid exposure obtain special instructions before use. Avoid contact with skin and eyes. Avoid inhalation of
 vapour or mist.
 For precautions see section 2.2.
- 7.2 Conditions for safe storage, including any incompatibilities Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Moisture sensitive.

Storage class (TRGS 510): Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.2 Exposure controls

Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection

Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use (US) or type ABEK (EN 14387) respirator cartridges as a backup to enginee protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

а) Appearance	Form: clear, liquid
b) Odour	No data available
С) Odour Threshold	No data available
d) рН	No data available
е) Melting point/freezing	Melting point/range: -7.57 °C - lit.
	point	
f)	Initial boiling point and	219 - 223 °C at 1013 hPa - lit.
	boiling range	90 - 91 °C at 20 hPa - lit.
g) Flash point	109 °C - closed cup

b) Eveneration rate	No data available				
h) Evaporation rate	No data available				
i) Flammability (solid, gas)j) Upper/lower flammability or	Upper explosion limit: 6.5 %(V) Lower explosion limit: 2.1 %(V)				
explosive limits k) Vapour pressure	2 mmHg at 55 °C 0.2 mmHg at 20 °C				
I) Vapour density	6.75 - (Air = 1.0)				
m) Relative density	1.372-1.374 g/cm3 at 25 °C				
n) Water solubility	No data available				
 Partition coefficient: n- octanol/water 	No data available				
p) Auto-ignition temperature	No data available				
q) Decomposition temperature	No data available				
r) Viscosity	No data available				
s) Explosive properties	No data available				
t) Oxidizing properties	No data available				
Other safety information	Other safety information				

9.2

6.75 - (Air = 1.0)Relative vapour density

SECTION 10: Stability and reactivity

- 10.1 Reactivity No data available
- 10.2 Chemical stability Stable under recommended storage conditions.
- 10.3 Possibility of hazardous reactions No data available
- 10.4 Conditions to avoid No data available
- 10.5 Incompatible materials Strong oxidizing agents
- **10.6 Hazardous decomposition products** Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas Other decomposition products - No data available In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - Rat - 6,000 mg/kg(Benzotrichloride) LD50 Oral - Mouse - 702 mg/kg(Benzotrichloride) LC50 Inhalation - Rat - 2 h - 19 ppm(Benzotrichloride) Remarks: Behavioral:Muscle contraction or spasticity. Respiratory disorder Nutritional and Gross Metabolic:Weight loss or decreased weight gain.

LD50 Dermal - Rabbit - 4,000 mg/kg(Benzotrichloride) Remarks: Behavioral:Excitement. Liver:Other changes. Prolonged skin contact may cause skin irritation and/or dermatitis.

Skin corrosion/irritation No data available(Benzotrichloride)

Serious eye damage/eye irritation No data available(Benzotrichloride)

Respiratory or skin sensitisation No data available(Benzotrichloride)

Germ cell mutagenicity

No data available(Benzotrichloride)

Carcinogenicity

This product is or contains a component that has been reported to be proba EPA classification.(Benzotrichloride) Possible human carcinogen(Benzotrichloride) (Benzotrichloride)

IARC: 2A - Group 2A: Probably carcinogenic to humans (Benzotrichloride)

Reproductive toxicity No data available(Benzotrichloride)

Specific target organ toxicity - single exposure No data available(Benzotrichloride)

Specific target organ toxicity - repeated exposure No data available

Aspiration hazard No data available(Benzotrichloride)

Additional Information

RTECS: XT9275000

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., Cough, Shortness of breath, Headache, Nausea(Benzotrichloride)

SECTION 12: Ecological information

12.1 Toxicity

No data available

- 12.2 Persistence and degradability No data available
- 12.3 Bioaccumulative potential No data available
- 12.4 Mobility in soil No data available(Benzotrichloride)

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

14.1	UN number ADR/RID: 2226	IMDG: 2226	IATA: 2226
14.2	UN propershipping nameADR/RID:BENZOTRICHLORIDEIMDG:BENZOTRICHLORIDEIATA:Benzotrichloride		
14.3	Transport hazard class(es) ADR/RID: 8	IMDG: 8	IATA: 8
14.4	Packaging group ADR/RID: II	IMDG: II	IATA: II
14.5	Environmental hazards ADR/RID: no	IMDG Marine pollutant: no	IATA: no
14.6	Special precautions for user No data available		

SECTION 15: Regulatory information

- **15.1** Safety, health and environmental regulations/legislation specific for the substance or mixture This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.
- **15.2 Chemical safety assessment** For this product a chemical safety assessment was not carried out

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3.

H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H350	May cause cancer.

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Central Drug House (P) Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.cdhfinechemical.com for additional terms and conditions of sale.