

# 1,2-DIBROMO-3-CHLOROPROPANE

0002

October 2002

CAS No: 96-12-8  
RTECS No: TX8750000  
UN No: 2872  
EC No: 602-021-00-6

3-Chloro-1,2-dibromopropane  
DBCP  
1-Chloro-2,3-dibromopropane  
C<sub>3</sub>H<sub>5</sub>Br<sub>2</sub>Cl  
Molecular mass: 236.4

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/SYMPTOMS	PREVENTION	FIRST AID/FIRE FIGHTING
<b>FIRE</b>	Combustible. Liquid formulations containing organic solvents may be flammable. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames.	Powder, water spray, foam, carbon dioxide.
<b>EXPLOSION</b>	Above 77°C explosive vapour/air mixtures may be formed.	Above 77°C closed system, ventilation.	In case of fire: keep drums, etc., cool by spraying with water.

EXPOSURE		AVOID ALL CONTACT! PREVENT GENERATION OF MISTS! AVOID EXPOSURE OF (PREGNANT) WOMEN!	IN ALL CASES CONSULT A DOCTOR!
<b>Inhalation</b>	Burning sensation. Cough. Sore throat. Headache. Shortness of breath. Weakness.	Local exhaust or breathing protection.	Fresh air, rest. Refer for medical attention.
<b>Skin</b>	Redness.	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse and then wash skin with water and soap. Refer for medical attention.
<b>Eyes</b>	Redness. Pain.	Safety goggles, or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>Ingestion</b>	Burning sensation. Sore throat. Nausea. Vomiting.	Do not eat, drink, or smoke during work.	Rinse mouth. Give plenty of water to drink. Refer for medical attention.

SPILLAGE DISPOSAL	PACKAGING & LABELLING
Evacuate danger area! Consult an expert! Ventilation. Collect leaking and spilled liquid in sealable containers as far as possible. Absorb remaining liquid in sand or inert absorbent and remove to safe place. Do NOT let this chemical enter the environment. (Extra personal protection: complete protective clothing including self-contained breathing apparatus.)	T Symbol R: 45-46-60-25-48/20/22-52/53 S: 53-45-61 Note: E UN Hazard Class: 6.1 UN Pack Group: III Unbreakable packaging; put breakable packaging into closed unbreakable container. Do not transport with food and feedstuffs.

EMERGENCY RESPONSE	STORAGE
Transport Emergency Card: TEC (R)-61GT1-III NFPA Code: H2; F1; R1	Separated from food and feedstuffs, metals such as aluminium or magnesium. Well closed.

### IMPORTANT DATA

**Physical State; Appearance**

COLOURLESS LIQUID, WITH PUNGENT ODOUR.  
TECHNICAL GRADE: AMBER TO DARK BROWN LIQUID.

**Physical dangers**

The vapour is heavier than air and may travel along the ground; distant ignition possible.

**Chemical dangers**

The substance decomposes on heating above the boiling point and on burning producing toxic fumes including hydrogen bromide, hydrogen chloride. Reacts with aluminium, magnesium, tin and their alloys in presence of water. Attacks some forms of rubber and coatings.

**Occupational exposure limits**

TLV not established.  
MAK: skin absorption; Carcinogen category: 2; Germ cell mutagen group: 2; (DFG 2002).

**Routes of exposure**

The substance can be absorbed into the body by inhalation of its vapour, through the skin and by ingestion.

**Inhalation risk**

A harmful contamination of the air can be reached very quickly on evaporation of this substance at 20°C.

**Effects of short-term exposure**

The substance is irritating to the eyes, the skin and the respiratory tract. The substance may cause effects on the central nervous system and kidneys, resulting in impaired functions. Exposure could cause lowering of consciousness.

**Effects of long-term or repeated exposure**

The substance may have effects on the liver, lungs, kidneys and testes, resulting in impaired functions and tissue lesions. This substance is possibly carcinogenic to humans. Causes toxicity to human reproduction or development.

### PHYSICAL PROPERTIES

Boiling point (decomposes): 196°C  
Melting point: 6.7°C  
Relative density (water = 1): 2.1  
Solubility in water: poor

Vapour pressure, kPa at 20°C: 0.1  
Relative density of the vapour/air-mixture at 20°C (air = 1): 1.01  
Flash point: 77°C  
Octanol/water partition coefficient as log Pow: 2.96

### ENVIRONMENTAL DATA

The substance is harmful to aquatic organisms.

### NOTES

Depending on the degree of exposure, periodic medical examination is indicated.  
An added stabilizer or inhibitor can influence the toxicological properties of this substance, consult an expert.  
Carrier solvents used in commercial formulations may change physical and toxicological properties.  
Do NOT take working clothes home.

### ADDITIONAL INFORMATION

**LEGAL NOTICE**

Neither the EC nor the IPCS nor any person acting on behalf of the EC or the IPCS is responsible for the use which might be made of this information