

# 1,3-DICHLOROPROPENE (MIXED ISOMERS)

0995

October 2004

CAS No: 542-75-6  
RTECS No: UC8310000  
UN No: 2047  
EC No: 602-030-00-5

1,3-Dichloropropylene  
Dichloropropene  
3-Chloroallyl chloride  
DCP  
 $C_3H_4Cl_2$   
Molecular mass: 111.0

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/SYMPTOMS	PREVENTION	FIRST AID/FIRE FIGHTING
<b>FIRE</b>	Flammable. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames, NO sparks, and NO smoking.	Powder, water spray, foam, carbon dioxide.
<b>EXPLOSION</b>	Above 25/C explosive vapour/air mixtures may be formed.	Above 25/C use a closed system, ventilation, and explosion-proof electrical equipment.	In case of fire: keep drums, etc., cool by spraying with water.

EXPOSURE		AVOID ALL CONTACT!	IN ALL CASES CONSULT A DOCTOR!
<b>Inhalation</b>	Cough. Sore throat. Headache. Dizziness. Nausea. Vomiting. Unconsciousness.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Refer for medical attention.
<b>Skin</b>	MAY BE ABSORBED! Redness. Pain. (Further see Inhalation).	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>	Laboured breathing. (Further see Inhalation).	Do not eat, drink, or smoke during work.	Give plenty of water to drink. Refer for medical attention.

SPILLAGE DISPOSAL	PACKAGING & LABELLING
Ventilation. Remove all ignition sources. Chemical protection suit including self-contained breathing apparatus. Collect leaking and spilled liquid in sealable plastic containers as far as possible. Do NOT let this chemical enter the environment.	T Symbol N Symbol R: 10-20/21-25-36/37/38-43-50/53 S: (1/2-)36/37-45-60-61 UN Hazard Class: 3 UN Pack Group: III

EMERGENCY RESPONSE	SAFE STORAGE
Transport Emergency Card: TEC (R)-30GF1-III NFPA Code: H2; F3; R0	Fireproof. Separated from metals and oxidants. Well closed.

### IMPORTANT DATA

**Physical State; Appearance**

COLOURLESS LIQUID, WITH PUNGENT ODOUR.

**Physical dangers**

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

**Chemical dangers**

The substance decomposes on burning producing toxic and corrosive fumes including hydrogen chloride. Reacts with oxidants, metals.

**Occupational exposure limits**

TLV: 1 ppm as TWA; (skin); A3; (ACGIH 2004).  
MAK: H; Sh; Carcinogen category: 2; (DFG 2004).

**Routes of exposure**

The substance can be absorbed into the body by inhalation of its vapour and 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.

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

Repeated or prolonged contact may cause skin sensitization. This substance is possibly carcinogenic to humans.

### PHYSICAL PROPERTIES

Boiling point: 108/C

Melting point: <-50/C

Relative density (water = 1): 1.22

Solubility in water, g/100 ml at 20/C: 0.2

Vapour pressure, kPa at 20/C: 3.7

Relative vapour density (air = 1): 3.8

Relative density of the vapour/air-mixture at 20/C (air = 1): 1.1

Flash point: 25/C c.c.

Explosive limits, vol% in air: 5.3-14.5

Octanol/water partition coefficient as log Pow: 1.82

### ENVIRONMENTAL DATA

The substance is toxic to aquatic organisms.

### NOTES

The technical product may contain 1% other materials.

### ADDITIONAL INFORMATION

**LEGAL NOTICE**

Neither the EC nor the IPCS nor any person acting on behalf of the EC or the IPCS is responsible