

# CHLOROTHALONIL

0134  
April 1994

CAS No: 1897-45-6  
RTECS No: NT2600000  
UN No: 2588  
EC No: 608-014-00-4

Tetrachloroisophthalonitrile  
2,4,5,6-Tetrachloro-1,3-benzenedicarbonitrile  
2,4,5,6-Tetrachloro-3-cyanobenzonitrile  
 $C_8Cl_4N_2$   
Molecular mass: 265.9

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/SYMPTOMS	PREVENTION	FIRST AID/FIRE FIGHTING
<b>FIRE</b>	Liquid formulations containing organic solvents may be flammable. Gives off irritating or toxic fumes (or gases) in a fire.		Water spray, foam, powder, carbon dioxide.
<b>EXPLOSION</b>	Risk of fire and explosion if formulations contain flammable/explosive solvents.		
<b>EXPOSURE</b>		<b>PREVENT DISPERSION OF DUST! AVOID ALL CONTACT! AVOID EXPOSURE OF ADOLESCENTS AND CHILDREN!</b>	
<b>Inhalation</b>	Burning sensation.	Local exhaust or breathing protection.	Fresh air, rest.
<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. Blurred vision.	Safety spectacles or eye protection in combination with breathing protection if powder.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>Ingestion</b>	Abdominal pain. Burning sensation.	Do not eat, drink, or smoke during work. Wash hands before eating.	Rinse mouth. Refer for medical attention. See Notes.
<b>SPILLAGE DISPOSAL</b>		<b>PACKAGING &amp; LABELLING</b>	
Do NOT wash away into sewer. Sweep spilled substance into containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place. Personal protection: P2 filter respirator for harmful particles.		T+ Symbol N Symbol R: 26-37-40-41-43-50/53 S: (2-)28-36/37/39-45-60-61 UN Hazard Class: 6.1  Do not transport with food and feedstuffs. Marine pollutant.	
<b>EMERGENCY RESPONSE</b>		<b>SAFE STORAGE</b>	
Transport Emergency Card: TEC (R)-61GT7-III		Provision to contain effluent from fire extinguishing. Separated from food and feedstuffs.	

## IMPORTANT DATA

**Physical State; Appearance**

ODOURLESS COLOURLESS CRYSTALS.

**Chemical dangers**

The substance decomposes on heating and on burning producing toxic and corrosive fumes including hydrogen chloride (see ICSC 0163) and nitrogen oxides.

**Occupational exposure limits**

TLV not established.

MAK: sensitization of skin (Sh); Carcinogen category: 3B; (DFG 2004).

**Routes of exposure**

The substance can be absorbed into the body by inhalation.

**Inhalation risk**

Evaporation at 20°C is negligible; a harmful concentration of airborne particles can, however, be reached quickly on spraying or when dispersed, especially if powdered.

**Effects of short-term exposure**

The substance irritates the eyes, the skin and the respiratory tract.

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

Repeated or prolonged contact with skin may cause dermatitis. Repeated or prolonged contact may cause skin sensitization. The substance may have effects on the kidneys and gastrointestinal tract.

## PHYSICAL PROPERTIES

Boiling point: 350°C

Melting point: 250-251°C

Relative density (water = 1): 1.8

Solubility in water, g/100 ml at 25°C: (none) &lt;0.01

Vapour pressure, Pa at 40°C: &lt;1.3

Octanol/water partition coefficient as log Pow: 4.38

## ENVIRONMENTAL DATA

This substance may be hazardous to the environment; special attention should be given to aquatic organisms. The substance may cause long-term effects in the aquatic environment.

## NOTES

If the pesticide is present under the form of a formulation containing hydrocarbon solvents, vomiting may not be induced!

Insufficient data are available on the effect of this substance on human health, therefore utmost care must be taken.

If the substance is formulated with solvents also consult the ICSCs of these materials.

Carrier solvents used in commercial formulations may change physical and toxicological properties.

Bombardier, Bravo, Bravocarb, Chlorothalonil, Chlortocaffaro, Contact 75, Corbel, Daconil, Dacosoil, Exotherm, Faber, Forturf,

Nopocide, Sweep and Termil TPN are trade names.

Card has been partly updated in October 2005. See sections Occupational Exposure Limits, EU classification, Emergency Response.

## 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