

2,4,5-TRICHLOROPHENOL**0879**

March 1998

CAS No: 95-95-4

RTECS No: SN1400000

UN No: 2020

EC No: 604-017-00-X

2,4,5-TCP

1-Hydroxy-2,4,5-trichlorobenzene

C₆H₃Cl₃O / C₆H₂Cl₃(OH)

Molecular mass: 197.5

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/SYMPTOMS	PREVENTION	FIRST AID/FIRE FIGHTING
FIRE	Combustible under specific conditions. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames. NO contact with strong oxidants.	Water spray, powder.
EXPLOSION			

EXPOSURE		PREVENT DISPERSION OF DUST!	
Inhalation	Cough.	Local exhaust or breathing protection.	Fresh air, rest.
Skin	Redness. Pain.	Protective gloves. Protective clothing.	First rinse with plenty of water, then remove contaminated clothes and rinse again. Refer for medical attention.
Eyes	Redness. Pain. Blurred vision.	Safety goggles, face shield, 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.
Ingestion	Abdominal pain. Diarrhoea. Dizziness. Headache. Vomiting. Fatigue. Sweating.	Do not eat, drink, or smoke during work. Wash hands before eating.	Rinse mouth. Refer for medical attention.

SPILLAGE DISPOSAL	PACKAGING & LABELLING
Do NOT wash away into sewer. Sweep spilled substance into sealable containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place. Do NOT let this chemical enter the environment (extra personal protection: A/P2 filter respirator for organic vapour and harmful dust).	Xn Symbol N Symbol R: 22-36/38-50/53 S: (2-)26-28-60-61 UN Hazard Class: 6.1 UN Pack Group: III Do not transport with food and feedstuffs. Marine pollutant.

EMERGENCY RESPONSE	STORAGE
Transport Emergency Card: TEC (R)-804	Separated from strong oxidants, food and feedstuffs.

IMPORTANT DATA

Physical State; Appearance

COLOURLESS CRYSTALS OR GREY FLAKES, WITH CHARACTERISTIC ODOUR.

Chemical Dangers

May explode on heating to decomposition. The substance decomposes on heating and on contact with strong oxidants producing toxic and irritating fumes (chlorine, hydrochloric acid). The substance is a weak acid. Reacts in an alkaline medium at high temperatures producing highly toxic chlorinated dioxins.

Occupational Exposure Limits

TLV not established. MAK not established.

Routes of Exposure

The substance can be absorbed into the body by inhalation and through the skin and by ingestion.

Inhalation Risk

No indication can be given about the rate in which a harmful concentration in the air is reached on evaporation of this substance at 20°C.

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. The substance may have effects on the liver and kidneys. This substance is possibly carcinogenic to humans (see Notes).

PHYSICAL PROPERTIES

Boiling point: 253°C

Melting point: 67°C

Density: 1.68 g/cm³

Solubility in water, g/100 ml at 25°C: 0.1

Vapour pressure, Pa at 25°C: 2.9

Octanol/water partition coefficient as log Pow: 3.7

ENVIRONMENTAL DATA

The substance is very toxic to aquatic organisms. The substance may cause long-term effects in the aquatic environment. Avoid release to the environment in circumstances different to normal use.

NOTES

Technical products may contain highly toxic impurities such as polychlorinated dibenzodioxins and dibenzofurans. The substance is combustible but no flash point is available in literature. Depending on the degree of exposure, periodic medical examination is indicated. If the substance is formulated with solvent(s) also consult the card(s) (ICSC) of the solvent(s). Carrier solvents used in commercial formulations may change physical and toxicological properties. Caswell No. 879, Collunosol, Dowicide 2, NCI-C61187, Nurelle, Preventol I are trade names. Also consult ICSC # 0588 - 2,3,4-trichlorophenol, 0589 - 2,3,5-trichlorophenol, ICSC # 0590 - 2,3,6-trichlorophenol and ICSC # 1122 - 2,4,6-trichlorophenol.

ADDITIONAL INFORMATION

LEGAL NOTICE

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