



Alpha Chemika



ISO 9001 QUALITY SYSTEM CERTIFIED ORGANIZATION

MATERIAL SAFETY DATA SHEET

MSDS

Savgan Heights ; 102 ,B Wing ; R.T.D. Lane ,Andheri (West) Mumbai - 400053 , INDIA

Section 1 - Chemical Product and Company Identification

Product Name : 2,4-DICHLOROPHENOL

Synonyms:

CAS No. : 120-83-2

Molecular Weight : 163.00

Chemical Formula: C₆H₄Cl₂

Section 2 - Composition, Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
2,4-Dichlorophenol	120-83-2	98-100%	Yes

Section 3 - Hazardous Identification

Risk advice to man and the environment

Harmful if swallowed. Toxic in contact with skin. Causes burns. Toxic to aquatic organisms, may cause longterm adverse effects in the aquatic environment

Section 4 - 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

Take off contaminated clothing and shoes immediately. 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

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Section 5 - Fire Fighting Measures

Suitable extinguishing media

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

Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

Section 6 - Accidental Release Measures

Personal precautions

Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods for cleaning up

Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

Section 7 - Handling and Storage

Handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Storage

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Section 8 - Exposure Controls, Personal Protection

Personal protective equipment

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99 (US) or type P2 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of 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).

Hand protection

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Handle with gloves.

Eye protection

Face shield and safety glasses

Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures

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

Section 9 - Physical and Chemical Properties

Appearance Form

crystalline Colour
light brown

Safety data

pH no data available

Melting point 42 - 43 °C - lit.

Boiling point 209 - 210 °C - lit.

Flash point 114,0 °C - closed cup

Ignition temperature no data available

Lower explosion limit no data available

Upper explosion limit no data available

Vapour pressure 0,1 hPa at 25,0 °C

Density 1,38 g/cm³ at 60,00 °C

Water solubility no data available

Partition coefficient:

n-octanol/water

log Pow: 3,06

Section 10 - Stability and Reactivity

Storage stability

Stable under recommended storage conditions.

Materials to avoid

Oxidizing agents, acids, Acid chlorides, Acid anhydrides, Metals

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas

Section 11 - Toxicological Information

Acute toxicity

LD50 Oral - rat - 47,0 mg/kg

Remarks: Behavioral:Food intake (animal). Lungs, Thorax, or Respiration:Dyspnea. Gastrointestinal:Other changes.

LD50 Dermal - Mammal - 790,0 mg/kg

Irritation and corrosion

Skin - rabbit - Severe skin irritation - 24 h - Draize Test

Sensitisation

no data available

Chronic exposure

IARC: 2B - Group 2B: Possibly carcinogenic to humans (2,4-Dichlorophenol)

2B - Group 2B: Possibly carcinogenic to humans (2,4-Dichlorophenol)

Signs and Symptoms of Exposure

spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting, Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., Weakness, Lowered blood pressure, Tremors, Dizziness, Confusion., Convulsions, Cyanosis, Shock., Unconsciousness, Symptoms may be delayed., Molten or hot 2,4-Dichlorophenol is immediately absorbed through the skin in amounts which have caused death in humans. Rapid death in humans has been caused by skin exposure without immediate decontamination. Amounts of molten 2,4-Dichlorophenol that may cover as little as 1% body surface area (hand-size) may cause death.

Potential Health Effects

Inhalation May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.

Skin Toxic if absorbed through skin. Causes skin burns.

Eyes Causes eye burns.

Ingestion Harmful if swallowed. Causes burns.

Target Organs Liver, Kidney, Blood,

Additional Information

RTECS: SK8575000

Section 12 - Ecological Information

Elimination information (persistence and degradability)

Bioaccumulation *Carassius auratus* (goldfish) - 24 h

Bioconcentration factor (BCF): 34

Ecotoxicity effects

Toxicity to fish LC50 - *Lepomis macrochirus* (Bluegill) - 1,60 - 2,60 mg/l - 96 h

LC50 - *Oncorhynchus mykiss* (rainbow trout) - 2,20 - 3,10 mg/l - 96 h

LC50 - *Carassius auratus* (goldfish) - 0,80 - 2,50 mg/l - 96 h

Toxicity to daphnia

and other aquatic

invertebrates.

EC50 - *Daphnia magna* (Water flea) - 2,70 - 3,90 mg/l - 24 h

LC50 - *Daphnia magna* (Water flea) - 0,00261 mg/l - 48 h

Toxicity to algae EC50 - *Chlorella vulgaris* (Fresh water algae) - 9,20 mg/l - 96 h

Growth inhibition EC50 - *Chlorella vulgaris* (Fresh water algae) - 9,2 mg/l - 96 h

Further information on ecology

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Section 13 - Disposal Considerations

Product

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.

Section 14 - Transport Information

ADR/RID

UN-Number: 2928 Class: 6.1 (8) Packing group: II

Proper shipping name: TOXIC SOLID, CORROSIVE, ORGANIC, N.O.S. (2,4-Dichlorophenol)

IMDG

UN-Number: 2928 Class: 6.1 (8) Packing group: II EMS-No: F-A, S-B

Proper shipping name: TOXIC SOLID, CORROSIVE, ORGANIC, N.O.S. (2,4-Dichlorophenol)

Marine pollutant: No

IATA

UN-Number: 2928 Class: 6.1 (8) Packing group: II

Proper shipping name: Toxic solid, corrosive, organic n.o.s. (2,4-Dichlorophenol)

Section 15 - Regulatory Information

Labelling according to EC Directives

EC Label

Hazard symbols

T Toxic

C Corrosive

N Dangerous for the environment

R-phrase(s)

R22 Harmful if swallowed.

R24 Toxic in contact with skin.

R34 Causes burns.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrase(s)

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S61 Avoid release to the environment. Refer to special instructions/ Safety data sheets.

Section 16 - Additional Information

NOT AVAILABLE