

1. IDENTIFICATION

Product Name Dichlorophen

Other Names 2,2-dihydroxy-5,5-dichlorodiphenylmethane; Dichlorophene - Technical

Used in cotton and woollen textiles, leather and paper; in articles used as food packaging; cement additive in the

construction industry; use in cleaning and washing agents.

Chemical FamilyNo Data AvailableChemical FormulaC13H10Cl2O2

Chemical Name Phenol, 2,2'-methylenebis[4-chloro-

Product Description No Data Available

Contact Details of the Supplier of this Safety Data Sheet

OrganisationLocationTelephoneRedox Ltd2 Swettenham Road
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Australia

Wiri Auckland 2104
New Zealand

Redox Inc. 3960 Paramount Boulevard +1-424-675-3200

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Redox Chemicals Sdn Bhd Level 2, No. 8, Jalan Sapir 33/7 +60-3-5614-2111

Seksyen 33, Shah Alam Premier Industrial Park

40400 Shah Alam Sengalor, Malaysia

Emergency Contact Details

For emergencies only; DO NOT contact these companies for general product advice.

Organisation Location Telephone Poisons Information Centre Westmead NSW 1800-251525 131126 Chemcall Australia 1800-127406 +64-4-9179888 Chemcall Malaysia +64-4-9179888 Chemcall New Zealand 0800-243622 +64-4-9179888 **National Poisons Centre** New Zealand 0800-764766

CHEMTREC USA & Canada 1-800-424-9300 CN723420

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2. HAZARD IDENTIFICATION

Poisons Schedule (Aust) Schedule 6



Globally Harmonised System

Hazard Classification Hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of

Chemicals (GHS)

Hazard Categories Acute Toxicity (Oral) - Category 4

Serious Eye Damage/Irritation - Category 2A

Acute Hazard To The Aquatic Environment - Category 1

Long-term Hazard To The Aquatic Environment - Category 1

Pictograms





Signal Word Warning

Hazard Statements H302 Harmful if swallowed.

H319 Causes serious eye irritation.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements Prevention P273 Avoid release to the environment.

P270 Do not eat, drink or smoke when using this product.

P280 Wear eye protection/face protection.
P264 Wash hands thoroughly after handling.

Response **P391** Collect spillage.

P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.

P330 Rinse mouth.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,

if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice.

Disposal P501 Dispose of contents/container in accordance with local / regional / national /

international regulations.

National Transport Commission (Australia)

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Dangerous Goods Classification NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods

by Road & Rail (ADG Code)

Environmental Protection Authority (New Zealand)

Hazardous Substances and New Organisms Amendment Act 2015

Hazards

HSNO Classifications Environmental **9.3C** Substances that are harmful to terrestrial vertebrates

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Chemical Entity	Formula	CAS Number	Proportion
Dichlorophen	C13H10Cl2O2	97-23-4	<=100 %

4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure

Swallowed IF SWALLOWED: Rinse mouth, then give plenty of water to drink. Do not induce vomiting. Call a Poison Centre or

doctor/physician for advice. Never give anything by mouth to an unconscious person.

Eye IF IN EYES: Immediately flush eyes with running water for several minutes, holding eyelids open and occasionally lifting

the upper and lower lids. Remove contact lenses if present and easy to do. Continue rinsing for at least 15 minutes. If eye

irritation persists, get medical advice/attention.

Skin IF ON SKIN: Remove contaminated clothing and shoes. Immediately flush skin with running water for at least 15 minutes.

If skin irritation occurs, get medical advice/attention. Wash contaminated clothing and shoes before reuse.

Inhaled IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If respiratory symptoms

persist, get medical advice/attention. Give artificial respiration if victim is not breathing. Administer oxygen if breathing is

difficult.

Advice to Doctor Treat symptomatically. Ensure that attending medical personnel are aware of the identity and nature of the product(s)

involved, and take precautions to protect themselves.

Medical Conditions Aggravated by No information available.

Exposure

5. FIRE FIGHTING MEASURES

General Measures Move containers from fire area if you can do it without risk. Cool containers with water spray until well after fire is out.

Dike fire-control water for later disposal.

Flammability Conditions May burn but does not ignite readily.

Extinguishing Media Use dry chemical, Carbon dioxide (CO2), foam or water spray for extinction. Do not scatter spilled material with high-

pressure water streams.

Fire and Explosion Hazard Avoid generating dust; Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is

a potential dust explosion hazard.

Hazardous Products of

Combustion

Fire may produce irritating, corrosive and/or toxic gases, including Carbon oxides, Hydrogen chloride (HCI).

Special Fire Fighting Instructions Contain runoff from fire control or dilution water - Runoff may cause pollution.

Personal Protective Equipment Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only

provide limited protection.

Flash Point 207 °C

Lower Explosion LimitNo Data AvailableUpper Explosion LimitNo Data AvailableAuto Ignition TemperatureNo Data AvailableHazchem CodeNo Data Available

6. ACCIDENTAL RELEASE MEASURES

General Response Procedure Ensure adequate ventilation. ELIMINATE all ignition sources (if dust clouds can occur). Do not touch or walk through

spilled material. Avoid generating dust. Avoid breathing dust and contact with eyes, skin and clothing.

Sweep up and shovel. Keep in suitable, closed containers for disposal (see SECTION 13). **Clean Up Procedures**

*Pick up and arrange disposal without creating dust.

Containment Stop leak if you can do it without risk. Prevent dust cloud. Prevent entry into waterways, sewers, basements or confined

areas.

Decontamination Flush contaminated area with plenty of water.

Environmental Precautionary

Measures

Discharge into the environment must be avoided. Spillages and decontamination runoff should be prevented from

entering drains and watercourses.

Evacuation Criteria Spill or leak area should be isolated immediately. Evacuate personnel to safe areas. Keep unauthorised personnel away.

Keep upwind and to higher ground.

7. HANDLING AND STORAGE

Handling Safety showers and eyewash facilities should be provided within the immediate work area for emergency use. Ensure

> adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Minimise dust generation and accumulation. Avoid breathing dust and contact with eyes, skin and clothing. Do not ingest. Use personal protective equipment as required (see SECTION 8). Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert

atmospheres.

Store (between 2 and 8 °C) in a cool, dry and well-ventilated place, out of direct sunlight. Keep container tightly closed. Storage

Keep away from heat and sources of ignition - No smoking. Keep away from foodstuffs and incompatible materials (see

SECTION 10).

Container Keep in the original container.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

No specific exposure standards are available for this product. For dusts from solid substances without specific General

occupational exposure standards:

- Safe Work Australia Exposure Standard (Nuisance dusts): 8 hr TWA = 10 mg/m3 (measured as inhalable dust).

- New Zealand WES (Particulates not otherwise classified): TWA = 10 mg/m3; TWA = 3 mg/m3 (respirable dust).

Exposure Limits No Data Available

Biological Limits No information available.

Engineering Measures A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust

ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing

dispersion of it into the general work area.

- Respiratory protection: Wear respiratory protection in case of inadequate ventilation or if inhalation of contaminants is **Personal Protection Equipment**

possible. Recommended: Particulate filter respirator. Ensure all respiratory protective equipment is suitable for its

intended use (refer to AS/NZS 1715 & 1716).

- Eye/face protection: Wear appropriate eye protection to avoid eye contact. Recommended: Tight-fitting safety glasses

or Chemical splash goggles.

- Hand protection: Handle with gloves. Recommended: Wear chemical-resistant protective gloves.

- Skin/body protection: Wear appropriate personal protective clothing to avoid skin contact. Recommended: Long-

sleeved protective coveralls and safety footwear.

Special Hazards Precaustions

No information available.

Work Hygienic Practices

Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse. Routine housekeeping should be instituted to ensure that dusts do not accumulate on

surfaces.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Solid
Appearance Powder

OdourSlightly phenolicColourOff-white to slightly tanpHNo Data AvailableVapour PressureNo Data AvailableRelative Vapour DensityNo Data Available

Boiling Point418.7 °CMelting Point171 - 174 °CFreezing PointNo Data Available

Solubility Practically insoluble in water (30 mg/L) - Almost insoluble in DMSO Methanol

Specific Gravity No Data Available

Flash Point 207 °C

Auto Ignition TempNo Data AvailableEvaporation RateNo Data AvailableBulk Density0.3 - 0.5 g/cm3Corrosion RateNo Data AvailableDecomposition TemperatureNo Data AvailableDensityNo Data AvailableSpecific HeatNo Data Available

Molecular Weight 269.13

Net Propellant Weight No Data Available **Octanol Water Coefficient** No Data Available **Particle Size** No Data Available **Partition Coefficient** No Data Available **Saturated Vapour Concentration** No Data Available **Vapour Temperature** No Data Available Viscosity No Data Available **Volatile Percent** No Data Available **VOC Volume** No Data Available

Additional Characteristics No information available.

Potential for Dust Explosion Avoid generating dust; Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is

a potential dust explosion hazard.

Fast or Intensely Burning

Characteristics

No information available.

Flame Propagation or Burning

Rate of Solid Materials

No information available.

Non-Flammables That Could Contribute Unusual Hazards to a No information available.

Properties That May Initiate or

Properties That May Initiate or Contribute to Fire Intensity May burn but does not ignite readily.

Reactions That Release Gases or

Vapours

Fire/decomposition may produce irritating, corrosive and/or toxic gases, including Carbon oxides, Hydrogen chloride

(HCI).

Release of Invisible Flammable

Vapours and Gases

No information available.

10. STABILITY AND REACTIVITY

General Information No information available.

Chemical Stability Stable under the prescribed storage conditions.

Conditions to Avoid Avoid generating dust. Keep away from heat and sources of ignition. **Materials to Avoid** Incompatible/reactive with strong oxidising agents, strong alkalis.

Hazardous Decomposition

Products

Combustion/thermal decomposition may produce irritating, toxic, and/or corrosive fumes, including oxides of Carbon,

Hydrogen chloride (HCl).

Hazardous Polymerisation No information available.

11. TOXICOLOGICAL INFORMATION

General Information - Acute toxicity: Harmful if swallowed. May cause discomfort, stomach pain, nausea, vomiting.

- Skin corrosion/irritation: Based on available data the classification criteria are not met. Prolonged contact may cause dryness of the skin.
- Eye damage/irritation: Causes serious eye irritation.
- Respiratory/skin sensitisation: Based on available data the classification criteria are not met.
- Germ cell mutagenicity: Based on available data the classification criteria are not met.
- Carcinogenicity: Based on available data the classification criteria are not met. No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- Reproductive toxicity: Based on available data the classification criteria are not met.
- STOT (single exposure): Not classified as a specific target organ toxicant after a single exposure. Dust may irritate the eyes and the respiratory system. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
- STOT (repeated exposure): Not classified as a specific target organ toxicant after repeated exposure. Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases.
- Aspiration toxicity: Not relevant (solid).

Acute

Mobility

Ingestion Acute toxicity (Oral):

- LD50, Rat: 1,506 mg/kg [Supplier's SDS].

Carcinogen Category None

12. ECOLOGICAL INFORMATION

Ecotoxicity Acute aquatic toxicity:

- LC50, Fish (Pimephales promelas (Fat-head minnow)): 0.31 mg/l (96 h).

*M-factor (Acute): 1 Chronic aquatic toxicity: - NOEC: 0.01<NOEC<=0.1 *M-factor (Chronic): 1 Non-rapidly degradable.

Persistence/Degradability

No information available. **Environmental Fate** Very toxic to aquatic life with long lasting effects - Avoid release to the environment.

Bioaccumulation Potential No information available. **Environmental Impact** No Data Available

13. DISPOSAL CONSIDERATIONS

General Information Dispose of waste to licensed waste disposal site and in accordance with local/regional/national regulations.

*Offer surplus and non-recyclable solutions to a licensed disposal company.

Special Precautions for Land Fill This material and its container must be disposed of in a safe way. When handling waste, the safety precautions applying

to handling of the product should be considered.

14. TRANSPORT INFORMATION

Land Transport (Australia)

ADG Code

Proper Shipping NameDichlorophenClassNo Data AvailableSubsidiary Risk(s)No Data Available

EPG 47 Low To Moderate Hazard Substances

UN Number No Data Available
Hazchem No Data Available
Pack Group No Data Available

Special Provision AU01

Comments Not regulated as DG when transported by road or rail in packagings that do not incorporate a receptacle

exceeding 500 kg(L) or IBCs.

Land Transport (Malaysia)

ADR Code

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Dichlorophen)

Class 9 Miscellaneous Dangerous Goods and Articles

Subsidiary Risk(s) No Data Available

EPG 47 Low To Moderate Hazard Substances

 UN Number
 3077

 Hazchem
 2Z

 Pack Group
 III

Special Provision No Data Available

Land Transport (New Zealand)

NZS5433

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Dichlorophen)

Class 9 Miscellaneous Dangerous Goods and Articles

Subsidiary Risk(s) No Data Available

EPG 47 Low To Moderate Hazard Substances

 UN Number
 3077

 Hazchem
 2Z

 Pack Group
 III

Special Provision No Data Available

Land Transport (United States of America)

US DOT

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Dichlorophen)

Class 9 Miscellaneous Dangerous Goods and Articles

Subsidiary Risk(s) No Data Available

ERG 171 Substances (Low to Moderate Hazard)

 UN Number
 3077

 Hazchem
 27

 Pack Group
 III

Special Provision No Data Available

Sea Transport IMDG Code

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Dichlorophen)

Class 9 Miscellaneous Dangerous Goods and Articles

Subsidiary Risk(s) No Data Available

 UN Number
 3077

 Hazchem
 2Z

 Pack Group
 III

Special Provision No Data Available

EMS F-A, S-F Marine Pollutant Yes

Air Transport

IATA DGR

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Dichlorophen)

Class 9 Miscellaneous Dangerous Goods and Articles

Subsidiary Risk(s) No Data Available

 UN Number
 3077

 Hazchem
 2Z

 Pack Group
 III

Special Provision No Data Available

National Transport Commission (Australia)

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Dangerous Goods ClassificationNOT Dangerous Goods according to the Criteria of the Australian Code for the Transport of Dangerous Goods

by Road & Rail (ADG Code)

15. REGULATORY INFORMATION

General Information DICHLOROPHEN is listed in Schedule 6 of the SUSMP, except for human therapeutic use (Schedule 4) or for the treatment

of animals (Schedule 5); or in fabrics.

Poisons Schedule (Aust) Schedule 6

Environmental Protection Authority (New Zealand)

Hazardous Substances and New Organisms Amendment Act 2015

Approval Code Additives Process Chemicals and Raw Materials Subsidiary Hazard Group Standard 2020 HSR002503

*HSR003408 (Revoked)

National/Regional Inventories

Australia (AIIC) Listed

Canada (DSL) Not Determined

Canada (NDSL) Not Determined

China (IECSC) Not Determined

Europe (EINECS) 202-567-1

Europe (REACh) Not Determined

Japan (ENCS/METI) Not Determined

Korea (KECI) Not Determined

Malaysia (EHS Register) Not Determined

New Zealand (NZIoC) Listed

Philippines (PICCS) Not Determined

Switzerland (Giftliste 1) Not Determined

Switzerland (Inventory of Notified

Substances)

Not Determined

Taiwan (NCSR) Not Determined

USA (TSCA) Not Determined

16. OTHER INFORMATION

Related Product Codes DICHLM1200, DICHLO1000, DICHLO1004, DICHLO1100, DICHLO11111, DICHLO1999, DICHLO3050,

DICHLO4500

Revision

AICS Australian Inventory of Chemical Substances

 ${\bf atm} \ {\bf Atmosphere}$

CAS Chemical Abstracts Service (Registry Number)

cm² Square CentimetresCO2 Carbon Dioxide

COD Chemical Oxygen Demand **deg C (°C)** Degrees Celcius

EPA (New Zealand) Environmental Protection Authority of New Zealand

deg F (°F) Degrees Farenheit

g Grams

g/cm³ Grams per Cubic Centimetre

g/I Grams per Litre

HSNO Hazardous Substance and New Organism **IDLH** Immediately Dangerous to Life and Health **immiscible** Liquids are insoluable in each other.

inHg Inch of Mercury

inH20 Inch of Water

K Kelvin

kg Kilogram

kg/m³ Kilograms per Cubic Metre

Ib Pound

LC50 LC stands for lethal concentration. LC50 is the concentration of a material in air which causes the death of 50% (one half) of a group of test animals. The material is inhaled over a set period of time, usually 1 or 4 hours.

LD50 LD stands for Lethal Dose. LD50 is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals.

Itr or L Litre

m³ Cubic Metre

mbar Millibar

mg Milligram

mg/24H Milligrams per 24 Hours

mg/kg Milligrams per Kilogram

mg/m³ Milligrams per Cubic Metre

Misc or Miscible Liquids form one homogeneous liquid phase regardless of the amount of either component present.

mm Millimetre

mmH20 Millimetres of Water

mPa.s Millipascals per Second

N/A Not Applicable

NIOSH National Institute for Occupational Safety and Health

NOHSC National Occupational Heath and Safety Commission

OECD Organisation for Economic Co-operation and Development

Oz Ounce

PEL Permissible Exposure Limit

Pa Pascal

ppb Parts per Billion

ppm Parts per Million

ppm/2h Parts per Million per 2 Hours

ppm/6h Parts per Million per 6 Hours

psi Pounds per Square Inch

R Rankine

RCP Reciprocal Calculation Procedure

STEL Short Term Exposure Limit

TLV Threshold Limit Value

tne Tonne

TWA Time Weighted Average

ug/24H Micrograms per 24 Hours

UN United Nations

wt Weight