

MATERIAL SAFETY DATA SHEET

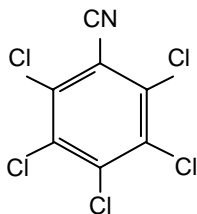
Introductory Details

Page 1 of total 6
Date of preparation : 18 March 2004
Date revised : 11 June 2008

SECTION 1 : CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Details

Product Name : Daconil 50% WP
Trade Name : DACONIL 2787 / PASSPORT
Chemical Name : Tetrachloroisophthalonitrile
Chemical Formula : $C_8Cl_4N_2$
Molar Mass : 265.91
Chemical Family : Nitrile compound
Manufacturer's Code : -
Use : Fungicide
Structural Formula :



Chlorothalonil

1.2 Company Identification

Manufacturer

Name and Address : Agricultural Chemical (M) Sdn. Bhd.
962, Lorong Perusahaan 8, Taman Perindustrian Perai,
13600 Perai, Pulau Pinang, Malaysia.
Telephone Number : 604-390 7988
Emergency Telephone Number : 604-390 7988

1.3 Contact Point

Designation : Ms. Cheong Wai Ching, Product Support Manager /
En. Ahmad Labib bin Yusof, Administrative Assistant
Tel. No. : 604-390 7988

MATERIAL SAFETY DATA SHEET

Introductory Details

Page 2 of total 6
Date of preparation : 18 March 2004
Date revised : 11 June 2008

SECTION 2 : COMPOSITION/INFORMATION ON INGREDIENT

Chemical Name	CAS No.	Proportion	Exposure Limit	Toxicity Data
Tetrachloroiso-phthalonitrile	1897-45-6	50%	Refer to Section 9	Refer to Section 11
Surfactant	-	1%		
Others	-	Balance		

SECTION 3 : PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Greyish white wetttable powder
Odour : Slightly pungent odour
Solubility : Dispersible in water
Boiling Point (technical) : > 350°C at 760 mmHg
Melting Point (technical) : 250 - 251°C
Vapour Pressure (technical) : 0.076 mPa at 25°C
Percentage Volatiles : Non volatile under normal field condition
Evaporation Rate : No data available
Vapour Density : No data available
Specific Gravity : No data available
Flash Point : Not applicable
Autoignition temperature : No data available
Flammable Limit (%) : No data available
Absolute Density (technical) : 2.00 g/cm³ at 20°C
Partition Coefficient logP_{o/w} (technical): 2.94 at 25°C

SECTION 4 : HAZARD IDENTIFICATION

Harmful by inhalation.
Irritating to eyes and skin.

MATERIAL SAFETY DATA SHEET

Introductory Details

Page 3 of total 6
Date of preparation : 18 March 2004
Date revised : 11 June 2008

SECTION 5 : FIRST AID MEASURES

- Ingestion : If swallowed, induce vomiting after drinking water. Get medical attention immediately. Never induce vomiting or give anything by mouth if patient is unconscious.
- Eye contact : Immediately flush with plenty of water for at least 15 minutes holding eyelids apart to ensure flushing of entire eye surface. Get medical attention.
- Skin contact : Remove contaminated clothing and footwear and wash skin thoroughly with soap and water. Wash clothing and decontaminate footwear before reuse. Seek medical attention if irritation persists.
- Inhalation : Remove patient from exposure, keep warm and at rest. Obtain medical attention as a precaution.
- Notes to physician : Poisoning symptoms are unspecific. Persons having temporary skin irritation symptoms may respond to treatment with topical steroid creams.

SECTION 6 : FIRE FIGHTING MEASURES

- Extinguishing Media : Foam, CO₂, dry chemical or water.
- Fire fighting instruction : Fire fighters should wear full-faced self contained breathing apparatus and protective clothing.
- Special hazards : Emission of hydrogen chloride which may be toxic and irritating to the respiratory tract.

SECTION 7 : ACCIDENTAL RELEASE MEASURE

Leak and/or Spill :

Wear protective clothing as indicated in Section 8. Evacuate non essential personnel. Collect the spill into waste container for disposal. Wash the contaminated area with a little water and detergent. Adsorb with inert material such as clay or earth. Collect into the same container for disposal. Prevent the spillage from entering local drainage system.

MATERIAL SAFETY DATA SHEET

Introductory Details

Page 4 of total 6
Date of preparation : 18 March 2004
Date revised : 11 June 2008

SECTION 8 : HANDLING AND STORAGE

Handling : Protective clothing should be changed at least daily. Persons exposed routinely to the active material should shower prior to leaving work each day.

Storage : Keep in original container, tightly closed, out of reach of children. Keep away from food, drinks and animal feeding stuffs. Read the label before use. Do not contaminate water. Open dumping is prohibited.

SECTION 9 : EXPOSURE CONTROL AND PERSONAL PROTECTION

a. Exposure Limit : No data available

b. Engineering measures : Local exhaust ventilation

c. Personal protection : Wear pesticide respiratory masks, protective gloves, goggles and clothing

SECTION 10 : STABILITY AND REACTIVITY

Conditions to avoid : Direct sunlight, heat and extreme temperature

Incompatible : No data available

Decomposition Products : May decompose under fire conditions emitting gases and vapours ie. hydrogen chloride which may be toxic and irritating to the respiratory tract.

Hazardous polymerization : No data available

Stability : Stable under normal conditions.

SECTION 11 : TOXICOLOGICAL INFORMATION

Toxicity Data :

Acute Oral LD₅₀ : (Rat) > 10,000 mg/kg

Acute Dermal LD₅₀ : (Rabbit) > 10,000 mg/kg

Inhalation LC₅₀ (1 hr) : (Rat) 4.7 mg/L air
(Nominal concentration)

Skin Irritation : Mildly irritating (Rabbit)

Eye Irritation : Moderately Irritating (Rabbit)

MATERIAL SAFETY DATA SHEET

Introductory Details

Page 5 of total 6
Date of preparation : 18 March 2004
Date revised : 11 June 2008

Carcinogenicity : No data available
Reproductive Effect : No data available
Effects of overexposure : No data available

Chronic effects : No data available
Target organs : No data available
Medical Conditions Generally Aggravated by Exposure : No data available

SECTION 12 : ECOLOGICAL INFORMATION

Mobility & Bioaccumulation : No data available
Biodegradability : No data available
Aquatic Toxicity : Very toxic to aquatic organism.
 LC50 (96 hr) : 0.049 mg/L (Rainbow trout)
 : 0.062 mg/L (Bluegill sunfish)
 : 0.044 mg/L (Channel catfish)

SECTION 13 : DISPOSAL INFORMATION

Dispose of according to local regulation.

SECTION 14 : TRANSPORT INFORMATION

Follow the precaution indicated in the storage and handling section. Follow all regulations in your country.

SECTION 15 : REGULATORY INFORMATION

Pesticides Act : Class IV
CPL Regulations : Class - Harmful
Risk Phrase : R20 Harmful by inhalation.
 : R36/38 Irritating to eyes and skin.

MATERIAL SAFETY DATA SHEET

Introductory Details

Page 6 of total 6
Date of preparation : 18 March 2004
Date revised : 11 June 2008

Safety Phrase : S2 Keep out of reach of children
S22 Do not breathe dust.
S36/37 Wear suitable protective clothing and gloves.
S38 In case of insufficient ventilation, wear suitable respiratory equipment.
S60 This material and/or its container must be disposed of as hazardous waste.

SECTION 16 : OTHER INFORMATION

- Reference : (a) Material Safety Data Sheet - Daconil 2787
Updated on : 25-5-2001
- (b) Material Safety Data Sheet - Daconil Technical
Date of preparation : 5 March 2002
- (c) Agricultural Chemicals : Book IV - Fungicides by W.T. Thomson
1991 Revision
- (d) Guidelines for The Classification of Hazardous Chemicals, DOSH 1997
- (e) Guidelines for The Formulation of A Chemical Safety Data Sheet, DOSH 1997
- (f) Guidelines for Labelling of Hazardous Chemicals, DOSH 1997

To the best of our knowledge, the information contained herein is accurate. However, we cannot assume any liability whatsoever for the accuracy or completeness of the information contained herein.