



Safety Data Sheet

SDS No.:
SDS-P/WP-D/01

Daconil 2787

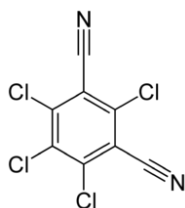
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Section 1: Identification of the Hazardous Chemical and of the Supplier

1.1 Product Identifier

Product Name: Daconil 50%WP
Trade Name: Daconil 2787
Active Ingredient: Tetrachloroisophthalonitrile
CAS No.(AI): 1897-45-6
Structural Formula:



Recommended Usage: Fungicide

1.2 Supplier's Information

Address: Agricultural Chemicals (M) Sdn. Bhd.
962, Lorong Perusahaan 8
Taman Perindustrian Perai
13600 Perai, Pulau Pinang
Malaysia
Tel.: +6-04-3907988
Fax: +6-04-3905703
Web: www.agrichem.com.my
Emergency Phone: +6-04-3907988

Section 2: Hazard Identification

Classification: Eye Irritation, Category 2
Skin Sensitization, Category 1
Carcinogenicity, Category 2
Reproductive Toxicity, Category 2
Hazardous to the Aquatic Environment – Acute Hazard, Category 1
Hazardous to the Aquatic Environment – Chronic Hazard, Category 1

Pictogram:



Signal Word: Warning



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Hazard Statement:

H319:	Causes serious eye irritation
H317:	May cause allergic skin reaction
H351:	Suspected of causing cancer
H361:	Suspected of damaging fertility or the unborn child
H400:	Very toxic to aquatic life
H410:	Very toxic to aquatic life with long lasting effects

Precautionary Statement:

P264:	Wash exposed body part thoroughly after handling
P280:	Wear rubber gloves, protective clothing, safety goggles and face protection
P261:	Avoid breathing dust
P272:	Contaminated work clothing shall not be allowed out of the workplace
P273:	Avoid release to the environment
P202:	Do not handle until all safety precautions have been read and understood

Section 3: Composition and Information of the Ingredients of the Hazardous Chemical

Component	CAS No.	Weight, %	Hazard Code
Tetrachloroisophthalonitrile (ISO common name: chlorothalonil)	1897-45-6	50%	H332, H319, H317, H351, H361, H400, H410
Surfactant 1	-	1% to < 3%	H302, H315, H318
Surfactant 2	-	1% to < 3%	-
Filler	-	< 1%	H319
Stabilizer	-	1 to < 3%	-
Carrier	-	30% to 60%	H319

Section 4: First-aid Measures

Call a POISON CENTER or doctor/physician if you feel unwell.

Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Skin Contact:	Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.
Eye Contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation



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Ingestion: persists: Get medical advice/attention. Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting.

Symptoms: No data available.

Notes to Physician: Poisoning symptoms are unspecific. Persons having temporary skin irritation symptoms may respond to treatment with topical steroid creams.

Section 5: Fire-fighting Measures

Suitable Extinguishing Media: Carbon dioxide (CO₂), chemical foam, dry chemical, water

Specific Hazard During Fire: Emission of hydrogen chloride which may be toxic and irritating to the respiratory tract

Special Protective Equipment: Fire fighters should wear full-faced self-contained breathing apparatus and protective clothing.

Section 6: Accidental Release Measures

Personal Precautions: Do not handle until all safety precautions have been read and understood. Wear appropriate protective equipment as required.

Environmental Precautions: Avoid release to the environment.

Method for Cleaning Up: 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.

Section 7: Handling and Storage

Precautions for Safe Handling: Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Avoid release to the environment.

Conditions for Safe 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.

Incompatibles: No data available



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Section 8: Exposure Control and Personal Protection

Exposure Limit:

Source	Component	CAS No.	Limit	
-	Filler	-	TWA	10mg/m ³
OSHA			STEL-TWA (<1%)	6mg/m ³
ACGIH			STEL-TWA (<1%)	10mg/m ³
NIOSH			STEL-TWA 10hour(s)	6mg/m ³
OSHA PEL	Carrier	-	TWA total particulate	15mg/m ³
ACGIH TLV			TWA respirable fraction	5mg/m ³
			TWA for respirable dust, A4 not classifiable as a human carcinogen	2mg/m ³
NIOSH REL			TWA total particulate	10mg/m ³
	TWA respirable fraction	5mg/m ³		

Engineering Control: Local exhaust ventilation
Individual Protection Measure: Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.
Personal Protective Equipment:
Eye Protection: Protective goggles
Skin Protection: Rubber gloves and clothing
Respiratory Protection: Pesticide respiratory masks

Section 9: Physical and Chemical Properties

Appearance: Greyish white wettable powder
Odour: Slightly pungent odour
Odour Threshold: No data available
pH: 4 – 8 (10% Suspension)
Melting/Freezing Point: 250 – 251°C (Chlorothalonil technical)
Initial Boiling Point: > 350°C at 760 mmHg (Chlorothalonil technical)
Boiling Range: No data available
Flash Point: No data available
Evaporation Rate: No data available
Flammability: No data available
Upper Flammability Limit: No data available
Lower Flammability Limit: No data available
Vapour Pressure: 0.076mPa at 25°C (Chlorothalonil technical)
Vapour Density: No data available
Relative Density: 0.30 – 0.55 g/cm³ at 25°C
Solubility in Water: Dispersible in water
Partition Coefficient P_{o/w}: 2.94 at 25°C
Auto-ignition Temperature: No data available
Decomposition Temperature: No data available
Viscosity: No data available



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Section 10: Stability and Reactivity

Reactivity:	No data available
Chemical Stability:	Stable under normal conditions
Hazardous Reaction:	No data available
Condition to Avoid:	Direct sunlight, heat and extreme temperature
Incompatible Material:	No data available
Hazardous Decomposition Product:	May decompose under fire conditions emitting gases and vapours ie. hydrogen chloride which may be toxic and irritating to the respiratory tract.

Section 11: Toxicological Information

11.1 Acute Toxicity

Component: Chlorothalonil technical			
Ingestion, Oral LD ₅₀ :			
	Rat	> 15,000mg/kg	
	Mouse	> 10,000mg/kg	
Skin Contact, Dermal LD ₅₀ :			
	Rabbit	> 10,000mg/kg	
Inhalation, LC ₅₀ :			
	Rat (1 hr)	4.7 mg/L air	
Component: Surfactant 1			
Ingestion, Oral LD ₅₀ :			
	Rat	≥ 1400mg/kg	

11.2 Chronic Effect from Short and Long Term Exposure

Skin Contact:	May cause allergic skin reaction
Eye Contact:	Causes serious eye irritation
Inhalation:	No data available
Ingestion:	No data available
Carcinogenicity:	Suspected of causing cancer
Mutagenicity:	No data available
Teratogenicity:	Suspected of damaging fertility or the unborn child

11.3 Symptoms No data available



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Section 12: Ecological Information

Ecotoxicity:

Component: Chlorothalonil Technical

Acute Toxicity:			
	Carp, LC ₅₀ , 96hr	0.08mg/L	
	Daphnia, EC ₅₀ , 48hr	0.11mg/L	
	Alga, ErC ₅₀ , (0-72hr)	0.50mg/L	

Persistence and Degradability: No data available

Bioaccumulative Potential: No data available

Mobility in Soil: No data available

Other Adverse Effect: No data available

Section 13: Disposal Information

Dispose of contents/container to Kualiti Alam / authorized body by DOE (pesticides).

Section 14: Transportation Information

Land (ADR/RID)


Proper Shipping Name	Pesticide, Solid, Toxic, N.O.S
Hazard Class	6.1
Hazchem Code	-
UN number	2588
Packing Group	III
Label / Mark	6

Sea (IMDG)

Proper Shipping Name	Pesticide, Solid, Toxic, N.O.S
Hazard Class	6.1
UN Number	2588
Packing Group	III
Marine Pollutant	-
Label	6
Transport Document Name	-

Air (IATA)

Proper Shipping Name	Pesticide, Solid, Toxic, N.O.S
Hazard Class	6.1
UN number	2588
Packing Group	III

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Label / Mark	6
Transport Document Name	-

Section 15: Regulatory Information

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Signal Word: Warning

Pictogram:



Pesticides Act: Class IV
 Classification: -

Section 16: Other Information

Date of Preparation: 8 October 2015
 Date of Revision: -
 Reference Document: ICOP on Chemicals Classification and Hazard Communication 2014
 GHS Purple Book
 MSDS

Disclaimer: 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.