

Syngenta

DACONIL(R) 2787 FLOWABLE FUNGICIDE

Syngenta Crop Protection Canada, Inc.
 Daconil(R) 2787 Flowable Fungicide
 Date issued: 03-09-18 (Y/M/D)

HMIS RATING
 Health: 2
 Fire: 0
 Reactivity: 0

 Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Company: Syngenta Crop Protection Canada, Inc.
 140 Research Lane
 Guelph, Ontario
 N1G 4Z3
 Phone number: (519) 836-5665
 Emergency phone: 1-800-327-8633 (1-800-FASTMED)
 Name used on label: Daconil(R) 2787 Flowable Fungicide
 Formulation Number: A7867K
 Product use: Fungicide
 Registration Number: 15724
 A Registered Trade Mark of a Syngenta group company

PPE
 Unusual fire and explosion hazards: May decompose under fire conditions emitting gases and vapors (e.g., hydrogen chloride) which may be toxic and irritating to the respiratory tract.

 Section 6 - ACCIDENTAL RELEASE MEASURES

 Section 2 - COMPOSITION/INFORMATION ON INGREDIENTS

Identity	CAS-no.	Typical %	Other information
chlorothalonil (ISO)	1897-45-6	40.4 %	

PERSONAL PRECAUTIONS: Wear suitable protective clothing.
 ENVIRONMENTAL PRECAUTIONS: Keep out of lakes, streams or ponds. Do not contaminate waterways by cleaning of equipment or by disposal of wastes.
 METHODS FOR CLEANING UP: Contain spill. Keep out of sewers and drains. Remove as much as possible by absorbing with inert material. Remove any contaminated soil. Place in closed, labeled containers and store in a safe place to await disposal.
 ADDITIONAL INFORMATION: Seal drum and dispose of contaminated material in a facility permitted for hazardous waste. Large spills should be handled according to spill plan.

Ingredients not precisely identified are proprietary or non hazardous.

Values are not product specifications.

 Section 3 - HAZARDS IDENTIFICATION

Physical hazards: None
 Health hazards: Irritant (eye, skin, respiratory passages, skin sensitiser).

 Section 7 - HANDLING AND STORAGE

REQUIREMENTS FOR STORAGE ROOMS: Containers should be stored in a cool, dry, well-ventilated area away from flammable materials and sources of heat or flame.
 ADDITIONAL INFORMATION: Do not store near feed, food, or within the reach of children. Open dumping is prohibited.

 Section 4 - FIRST AID MEASURES

IF IN EYES: Immediately flush eyes with running water for a minimum of 20 minutes. Hold eyelids open during flushing. If irritation persists, repeat flushing. Obtain medical attention immediately.
 IF ON SKIN: Flush skin with running water for a minimum of 20 minutes. Start flushing while removing contaminated clothing. If irritation persists, repeat flushing. Obtain medical attention immediately.
 IF SWALLOWED: Immediately contact Syngenta's Emergency Information Network at 1-800-F-A-S-T-M-E-D (327-8633). Do not induce vomiting. Vomiting should only be induced under the direction of a physician or a poison control center. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomitus, rinse mouth and administer water. Never give anything by mouth to an unconscious person. Obtain medical attention.
 IF INHALED: Remove victim to fresh air. Until adequate ventilation or other control measures are restored, employ proper respiratory protection. If symptoms develop, seek medical attention.
 MEDICAL ADVICE: Persons having a temporary allergic reaction may respond to treatment with antihistamines or steroid creams and/or systemic steroids.

 Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure limits
 Occupational exposure standards: Syngenta has established an employee exposure standard of 0.1 mg/M3 (8-hour TWA) for the active ingredient.
 TLV or suggested control value: No TLV assigned.
 VENTILATION: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.
 EYE PROTECTION: Wear eye/face protection.
 BODY PROTECTION: Applicators and other handlers must wear: Long-sleeved shirt and long pants, waterproof gloves and shoes plus socks. Clean clothing on a routine basis. Remove contaminated clothing and wash before re-wearing.
 RESPIRATORY PROTECTION: Use MSHA-NIOSH approved respirator for pesticides.
 GENERAL PERSONAL PROTECTION: Persons exposed routinely to this product should shower after completing work each day.
 Worker Protection Standard:
 Restricted Entry Interval (REI): 48 hours
 PPE for early entry: Coveralls, waterproof gloves, shoes plus socks, protective eyewear.
 See label for more detailed information.

 Section 5 - FIRE FIGHTING MEASURES

Flash point: Nonflammable
 Autoignition temperature: Not applicable
 Flammable limits (STP): Noncombustible
 EXTINGUISHING MEDIA: Foam, carbon dioxide, water or dry chemical.
 PROTECTIVE EQUIPMENT: Self-contained breathing apparatus with full face-piece and protective clothing
 NFPA RATING
 Health: 0
 Fire: 0
 Reactivity: 0

 Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Form: liquid
 Physical state: Suspension Concentrate
 Colour: light gray
 Odour: slight
 Boiling point: 100 deg C (lowest boiling component)
 Melting point: Not applicable
 Freezing temperature: -5 deg C
 Vapor Pressure: 5.72 x 10(-7) mm Hg at 25 deg C
 Vapour density: Not determined
 Bulk density: 1.23 kg/L
 Specific gravity: 1.24 (water = 1)
 Solubility: Dispersible in water. 0.6 - 1.2 ppm

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Volatile by volume: 56 % (v/v)
 pH: 6 - 8
 Evaporation rate: Not determined
 Evaporation waste rate: Not determined
 Viscosity: 1063 cps @ 21 deg C

Container disposal: Empty container retains product residue. Triple rinse, or equivalent, empty container, return rinse water to dilution mixture, and dispose of dilution mixture as a hazardous waste if it cannot be disposed of by use according to label instructions. Do not reuse container. Offer it for recycling or reconditioning, or puncture and dispose of in properly permitted landfill. If burned, stay out of smoke.

 Section 10 - STABILITY AND REACTIVITY

HAZARDOUS REACTIONS (CONDITIONS TO AVOID)

Stability: Stable under normal conditions.
 Incompatibility: Unstable under highly alkaline conditions.
 Hazardous polymerization: None known.
 HAZARDOUS DECOMPOSITION PRODUCTS: May decompose under fire conditions emitting gases and vapors (e.g., hydrogen chloride) which may be toxic or irritating to the respiratory tract.

 Section 14 - TRANSPORT INFORMATION

TRANSPORT/ADDITIONAL INFORMATION

Road (TDG) transport: Not Regulated By TDG

 Section 15 - REGULATORY INFORMATION

Other regulations, restrictions and prohibitions

Pest Control Products (PCP) Act Registration No: 15724

 Section 11 - TOXICOLOGICAL INFORMATION

 Section 16 - OTHER INFORMATION

ACUTE TOXICITY (LETHAL DOSES)

LD50 Ingestion rat
 Dose: 4200 mg/kg
 Additional inform.: May cause irritation of the gastrointestinal tract following ingestion of large amounts.
 LD50 Dermal rabbit
 Dose: > 20000 mg/kg
 Additional inform.: May cause skin irritation. May be a potential skin sensitizer. On overexposed skin, may cause moderate irritation, redness and flaky rash. Skin rash is seldom observed if the recommended safeguards outlined are followed.

We assigned NFPA and HMIS ratings to this product based on the hazards of its ingredient(s). Because the customer is most aware of the application of the product, he must ensure that the proper personal protective equipment (PPE) is provided consistent with information contained in the product MSDS. This information is intended solely for the use of individuals trained in the particular hazard rating system. The information contained herein is offered only as a guide to the handling of this specific material and has been prepared in good faith by technically knowledgeable personnel. It is not intended to be all-inclusive and the manner and conditions of use and handling may involve other and additional considerations. No warranty of any kind is given or implied and Syngenta will not be liable for any damages, losses, injuries or consequential damages which may result from the use of or reliance on any information contained herein. This Material Safety Data Sheet is valid for three years. This product is under the jurisdiction of the Pest Control Products Act and is exempt from the requirements for a WHMIS compliant MSDS. Hazardous properties of all ingredients have been considered in the preparation of this MSDS. Read the entire MSDS for the complete hazard evaluation of this product.

LC50 Inhalation rat
 Dose: > 7.16 mg/l
 Period: 4 hours
 Additional inform.: May be irritant to the respiratory tract. This is rarely observed. Skin absorption
 Additional inform: Not readily absorbed through intact skin.

ACUTE TOXICITY (IRRITATION, SENSITIZATION ETC.)

Eye contact
 Results: MILD IRRITANT TO SEVERE IRRITANT
 Additional inform.: No evidence of permanent damage has been found.

GENERAL INFORMATION ABOUT ACUTE OR OTHER TOXICITIES

Other effects of overexposure: Studies on rats and mice have suggested that technical chlorothalonil (97%), when fed at high levels in the diet, may have oncogenic potential to these laboratory animals. However, neither chlorothalonil nor its metabolites interact with DNA and thus are not mutagenic. Tumor formation has been related to a non-genotoxic mechanism of action for which threshold levels have been established in rats and mice. Comprehensive dietary and worker exposure studies have shown exposure levels for humans to be well below these threshold levels. In addition, surveillance of chlorothalonil plant workers for over twenty years has not demonstrated any increase in oncogenic potential to humans.

Prepared by: Syngenta Crop Protection Canada, Inc
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 Section 12 - ECOLOGICAL INFORMATION

ADDITIONAL INFORMATION ABOUT ECOLOGY: Toxic to fish.

COMPAS Code: 46010182

 Section 13 - DISPOSAL CONSIDERATIONS

Disposal Method: Disposal should be in accordance with local, provincial or national legislation.