

DACONIL 2787 FLOWABLE Version Revision Date: SDS Number: This version replaces all previous versions. 07/25/2023 S1126607913 1.0 **SECTION 1. IDENTIFICATION** Product name DACONIL 2787 FLOWABLE : A7867B Design code : Product Registration number : 15724 Other means of identification : No data available Manufacturer or supplier's details Company name of supplier Syngenta Canada Inc. : Address 140 Research Lane, Research Park ÷ Guelph ON N1G 4Z3 Canada Telephone 1-87-SYNGENTA (1-877-964-3682) 1 Telefax 1-519-823-0504 : E-mail address 1-800-327-8633 (FAST MED) Emergency telephone num-÷ ber Recommended use of the chemical and restrictions on use

Recommended use : Fungicide

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the Hazardous Products Regulations

Acute toxicity (Inhalation)	:	Category 2
Serious eye damage	:	Category 1
Skin sensitisation	:	Sub-category 1B
Carcinogenicity	:	Category 2
Specific target organ toxicity - single exposure	:	Category 3 (Respiratory system)

Danger

÷

GHS label elements

Hazard pictograms



Signal word

Hazard statements

H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H330 Fatal if inhaled. H335 May cause respiratory irritation. H351 Suspected of causing cancer.



ersion)	Revision Date: 07/25/2023	SDS Number: S1126607913	This version replaces all previous versions.		
Precautionary statements		 Prevention: P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have b and understood. P260 Do not breathe mist or vapours. P271 Use only outdoors or in a well-ventilated area. P272 Contaminated work clothing should not be allow the workplace. P280 Wear protective gloves/ protective clothing/ eye face protection. P284 Wear respiratory protection. 			
		P304 + P340 + and keep comf CENTER/ doct P305 + P351 + water for sever and easy to do CENTER/ doct P308 + P313 II attention. P333 + P313 If attention.	P338 + P310 IF IN EYES: Rinse cautiously wi al minutes. Remove contact lenses, if present . Continue rinsing. Immediately call a POISON		
		Storage: P403 + P233 S tightly closed. P405 Store loc	tore in a well-ventilated place. Keep container		
		Disposal: P501 Dispose posal plant.	of contents/ container to an approved waste dis		
	r hazards known.				

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

••••••			
Chemical name	Common Name/Synonym	CAS-No.	Concentration (% w/w)
chlorothalonil (ISO)	chlorothalonil (ISO)	1897-45-6	40
propane-1,2-diol	propane-1,2-diol	57-55-6	>= 5 - < 10 *
silicon dioxide, chemi- cally prepared	silicon dioxide, chemically pre- pared	112926-00-8	>= 1 - < 5 *

* Actual concentration or concentration range is withheld as a trade secret



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SECTION 4. FIRST AID MEASURES

General advice	:	Have the product container, label or Safety Data Sheet with you when calling the emergency number, a poison control center or physician, or going for treatment.
If inhaled	:	Move the victim to fresh air. If breathing is irregular or stopped, administer artificial respira- tion. Keep patient warm and at rest.
In case of skin contact	:	Call a physician or poison control centre immediately. Take off all contaminated clothing immediately. Wash off immediately with plenty of water. If skin irritation persists, call a physician. Wash contaminated clothing before re-use.
In case of eye contact	:	
If swallowed	:	If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting.
Most important symptoms and effects, both acute and delayed	:	Nonspecific No symptoms known or expected.
Notes to physician	:	There is no specific antidote available. Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Extinguishing media - small fires Use water spray, alcohol-resistant foam, dry chemical or car- bon dioxide. Extinguishing media - large fires Alcohol-resistant foam or Water spray
Unsuitable extinguishing media	:	Do not use a solid water stream as it may scatter and spread fire.
Specific hazards during fire- fighting	:	As the product contains combustible organic components, fire will produce dense black smoke containing hazardous prod- ucts of combustion (see section 10). Exposure to decomposition products may be a hazard to
		health.
Further information	:	Do not allow run-off from fire fighting to enter drains or water courses.
Special protective equipment for firefighters	:	Cool closed containers exposed to fire with water spray. Wear full protective clothing and self-contained breathing ap- paratus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec-	:	Refer to protective measures listed in sections 7 and 8.
tive equipment and emer-		
gency procedures		



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Enviro	onmental precautions		Do not flush ir	er leakage or spillage if safe to do so. hto surface water or sanitary sewer system. contaminates rivers and lakes or drains inform thorities.
	ods and materials for inment and cleaning up		sorbent mater miculite) and p / national regu Clean contam Clean with de	ge, and then collect with non-combustible ab- rial, (e.g. sand, earth, diatomaceous earth, ver- place in container for disposal according to local ulations (see section 13). ninated surface thoroughly. tergents. Avoid solvents. spose of contaminated wash water.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling	 No special protective measures against fire required. Avoid contact with skin and eyes. When using do not eat, drink or smoke. For personal protection see section 8.
Conditions for safe storage	 No special storage conditions required. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep away from food, drink and animal feedingstuffs.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

O a a a a a a a a				Datio
Components	CAS-No.	Value type	Control parame-	Basis
		(Form of	ters / Permissible	
		exposure)	concentration	
chlorothalonil (ISO)	1897-45-6	TWA	0.1 mg/m3	Syngenta
propane-1,2-diol	57-55-6	TWA (Va-	50 ppm	CA ON OEL
		pour and	155 mg/m3	
		aerosols)	Ū	
		TWA (aero-	10 mg/m3	CA ON OEL
		sol)	Ū	
silicon dioxide, chemically	112926-00-8	TWA	10 mg/m3	CA ON OEL
prepared				
		TWA (Res-	1.5 mg/m3	CA BC OEL
		pirable)	_	
		TWA (Total)	4 mg/m3	CA BC OEL
		TWAEV	6 mg/m3	CA QC OEL
		(respirable	-	
		dust)		

Components with workplace control parameters

Engineering measures : THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION AND PACKAGING OF THE PRODUCT. FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.



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		protection me The extent of	and/or segregation is the most reliable technical asure if exposure cannot be eliminated.
		standards.	use. oncentrations below occupational exposure sary, seek additional occupational hygiene ad-
Perso	nal protective equipm	ent	
Respir	atory protection	: When workers limit they mus Suitable respi Respirator wit The filter clas imum expecte (gas/vapour/a dling the prod	s are facing concentrations above the exposure at use appropriate certified respirators. ratory equipment: th a half face mask s for the respirator must be suitable for the max- ed contaminant concentration lerosol/particulates) that may arise when han- uct. If this concentration is exceeded, self- athing apparatus must be used.
	narks	· Woor protocti	ve aloves. The choice of an appropriate alove
		does not only features and i Please observ breakthrough gloves. Also t tions under w cuts, abrasion depends amo and the type o each case. G is any indicati	ve gloves. The choice of an appropriate glove depend on its material but also on other quality s different from one producer to the other. ve the instructions regarding permeability and time which are provided by the supplier of the ake into consideration the specific local condi- hich the product is used, such as the danger of a, and the contact time. The break through time ngst other things on the material, the thickness of glove and therefore has to be measured for loves should be discarded and replaced if there on of degradation or chemical breakthrough.
Eye pro	otection	eye contact w	eye protection when the potential for inadvertent rith the product cannot be excluded. safety goggles
Skin ar	nd body protection	tration and an cific work-place	wash contaminated clothing before re-use. opriate:
Protec	tive measures	over the use of	chnical measures should always have priority of personal protective equipment. ng personal protective equipment, seek appro- ional advice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

: viscous, suspension



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Odo	ır	:	No data available	
Odo	ur Threshold	:	No data available	
pН		:	No data available	
Melti	ng point/range	:	No data available	
Boili	ng point/boiling range	:	No data available	
Flasl	n point	:	No data available	
Evap	poration rate	:	No data available	
Flam	imability (solid, gas)	:	No data available	
	er explosion limit / Upper mability limit	:	No data available	
	er explosion limit / Lower mability limit	:	No data available	
Vapo	our pressure	:	No data available	
Rela	tive vapour density	:	No data available	
Dens	sity	:	1.25 g/cm3 (20 °C))
	bility(ies) /ater solubility	:	No data available	
S	olubility in other solvents	:	No data available	
	tion coefficient: n-	:	No data available	
	nol/water -ignition temperature	:	No data available	
Deco	omposition temperature	:	No data available	
Visco V	osity iscosity, kinematic	:	No data available	
Expl	osive properties	:	No data available	
Oxid	izing properties	:	No data available	
Parti	cle size	:	No data available	

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	None reasonably foreseeable.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reac-	:	No dangerous reaction known under conditions of normal use.



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tions Conditions to avoid : No decomposition if used as directed. Incompatible materials : None known. Hazardous decomposition : No hazardous decomposition products are known. products

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes Ingestion Inhalation Skin contact Eye contact	s of	exposure
Acute toxicity		
Product: Acute inhalation toxicity	:	Assessment: The substance/mixture is not toxic on inhalation as defined by dangerous goods regulations.
		Acute toxicity estimate: 0.25 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method
Components:		
chlorothalonil (ISO):		
Acute oral toxicity	:	LD50 (Rat, male and female): > 5,000 mg/kg
Acute inhalation toxicity	:	LC50 (Rat, male and female): 0.10 mg/l Exposure time: 4 h Test atmosphere: dust/mist
Acute dermal toxicity	:	LD50 (Rat, male and female): > 5,000 mg/kg
Skin corrosion/irritation		
Components:		
chlorothalonil (ISO):		
Species Result	:	Rabbit No skin irritation
Serious eye damage/eye ir	ritati	ion
Components:		
chlorothalonil (ISO):		
Species	:	Rabbit

Result : Risk of serious damage to eyes.



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Resp	iratory or skin sensitis	satio	on	
Com	oonents:			
chlor	othalonil (ISO):			
Speci		:	Humans	lin consideration sub actors with
Resul Rema		:	•	skin sensitiser, sub-category 1B. s may cause an allergic response of the res-
Germ	cell mutagenicity			
<u>Com</u>	oonents:			
chlor	othalonil (ISO):			
	cell mutagenicity - ssment	:	Animal testing die	I not show any mutagenic effects.
Carci	nogenicity			
Com	oonents:			
	othalonil (ISO):			
Carcii ment	nogenicity - Assess-	:		uses kidney tumours in rats and mice via a definition definitation definitation definiti
			ty.	of carcinogenicity in animal studies
Repro	oductive toxicity			
Com	<u>oonents:</u>			
chlor	othalonil (ISO):			
Repro sessn	oductive toxicity - As- nent	:	No toxicity to rep	oduction
STOT	- single exposure			
Com	<u>oonents:</u>			
chlor	othalonil (ISO):			
Asses	ssment	:		mixture is classified as specific target organ kposure, category 3 with respiratory tract
STOT	- repeated exposure			
Com	<u>oonents:</u>			
chlor	othalonil (ISO):			
Asses	ssment	:		mixture is not classified as specific target peated exposure.



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SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

chlorothalonil (ISO): Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 0.039 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.17 mg/l Exposure time: 48 h
		EC50 (Invertebrates): 0.074 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	ErC50 (Navicula pelliculosa (Freshwater diatom)): 0.013 mg/l Exposure time: 72 h
		NOEC (Navicula pelliculosa (Freshwater diatom)): 0.0035 mg/l End point: Growth rate Exposure time: 72 h
		ErC50 (Skeletonema costatum (marine diatom)): 0.015 mg/l Exposure time: 72 h
		NOEC (Skeletonema costatum (marine diatom)): 0.006 mg/l End point: Growth rate Exposure time: 72 h
Toxicity to fish (Chronic tox- icity)	:	NOEC (Pimephales promelas (fathead minnow)): 0.0014 mg/l Exposure time: 297 d
Toxicity to daphnia and other aquatic invertebrates (Chron-	:	EC10 (Daphnia magna (Water flea)): 0.035 mg/l Exposure time: 21 d
ic toxicity)		NOEC (Americamysis): 0.0004 mg/l Exposure time: 28 d
Persistence and degradabili	ity	

Components:

chlorothalonil (ISO): Biodegradability	:	Result: Not readily biodegradable.
Stability in water	:	Degradation half life: 0.4 - 6 d (20 °C) Remarks: Product is not persistent.

Bioaccumulative potential

Components:

chlorothalonil (ISO):



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Bioac	cumulation	:		on factor (BCF): 340 s not bioaccumulate.
	ion coefficient: n- ol/water	:	log Pow: 2.94 (25 °C)
Mobil	lity in soil			
Com	oonents:			
chlor	othalonil (ISO):			
	bution among environ- al compartments	:	Remarks: Chlo	rothalonil has low to slight mobility in soil.
Stabil	ity in soil	:		e: 5 d sipation: 50 % (DT50) uct is not persistent.
Other	r adverse effects			
Com	oonents:			
Resul	othalonil (ISO): Its of PBT and vPvB ssment	:	very bioaccum	is not considered to be very persistent and ulating (vPvB). This substance is not consid- istent, bioaccumulating and toxic (PBT).

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SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods	
Waste from residues	: Refer to the product label for specific disposal/recycling infor- mation
	Do not contaminate ponds, waterways or ditches with chemi- cal or used container.
	Do not dispose of waste into sewer.
	Where possible recycling is preferred to disposal or incinera- tion.
	If recycling is not practicable, dispose of in compliance with local regulations.
Contaminated packaging	: Refer to the product label for specific disposal/recycling infor- mation
	Empty remaining contents.
	Triple rinse containers.
	Empty containers should be taken to an approved waste han- dling site for recycling or disposal.
	Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UN	RTDG
UN	numbe

UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
		N.O.S.
		(CHLOROTHALONIL)



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Class Packi Label Rema	ng group s	 9 III 9 This product can be subject to exemptions when packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids, or having a net mass of 5 kg or less for solids. 			
UN/IE Prope Class Packi Label Packi aircra Packi ger ai	er shipping name ing group s ing instruction (cargo ift) ing instruction (passen- ircraft) onmentally hazardous	 UN 3082 Environmentally hazardous substance, liquid, n.o.s. (CHLOROTHALONIL) 9 III Miscellaneous 964 964 yes This product can be subject to exemptions when packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids, or having a net mass of 5 kg or less for solids. 			
UN ni Prope Class Packi Label EmS	ng group s Code le pollutant	 UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CHLOROTHALONIL) 9 III 9 F-A, S-F yes This product can be subject to exemptions when packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids, or having a net mass of 5 kg or less for solids. 			

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations

TDG		
UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CHLOROTHALONIL)
Class	:	9
Packing group	:	
Labels	:	9
ERG Code	:	171
Marine pollutant	:	yes(CHLOROTHALONIL)
Remarks	:	Class 9 Exemption from Part 3, Documentation, and Part 4, Dangerous Goods Safety Marks, if transported solely on land by road vehicle or railway vehicle.



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Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

Read the label, authorised under the Pest Control Products Act, prior to using or handling the pest control product

There are Canada-specific environmental requirements for handling, use, and disposal of this pest control product that are indicated on the label.

This chemical is a pest control product registered by Health Canada Pest Management Regulatory Agency and is subject to certain labelling requirements under the Pest Control Products Act. These requirements differ from the classification criteria and hazard information required for GHS-consistent safety data sheets. The following is the hazard information required on the pest control product label: Warning, contains the allergen 1,2-benzisothiazolin-3-one

Warning

Canadian PBT Chemicals : NPRI Components :	This product contains the following components on the DSL that are classified as Persistent, Bioaccumulative and/or Toxic (PBT) under CEPA: octamethylcyclotetrasiloxane [D4] trisodium nitrilotriacetate
The components of this produ	ct are reported in the following inventories:
DSL :	This product contains the following components that are not on the Canadian DSL nor NDSL. Oxirane, 2-methyl-, polymer with oxirane
	wollastonite (Ca(SiO3))
	Magnesium calcium silicate
	limestone
	Feldspar-group minerals
Canadian lists	

Canadian lists

The following substance(s) is/are subject to a Significant New Activity Notification: chlorothalonil (ISO) 1897-45-6

SECTION 16. OTHER INFORMATION

Full text of c	other abbreviations
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CA BC OEL	: Canada. British Columbia OEL
CA ON OEL	: Ontario Table of Occupational Exposure Limits made under the Occupational Health and Safety Act.
CA QC OEL	: Québec. Regulation respecting occupational health and safe- ty, Schedule 1, Part 1: Permissible exposure values for air- borne contaminants
Syngenta	: Syngenta Occupational Exposure Limit



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CA BC OEL / TWA	8-hour time weighted average
CA ON OEL / TWA CA QC OEL / TWAEV	Time-Weighted Average Limit (TWA) Time-weighted average exposure value
Syngenta / TWA	Time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States): UN - United Nations: UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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Date format	:	mm/dd/yyyy

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

CA / EN