# **DITHANE RAINSHIELD FUNGICIDE**



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1.0 04/19/2022 800080002740 Date of first issue: 04/19/2022

Corteva Agriscience™ encourages you and expects you to read and understand the entire SDS as there is important information throughout the document. This SDS provides users with information relating to the protection of human health and safety at the workplace, protection of the environment and supports emergency response. Product users and applicators should primarily refer to the product label attached to or accompanying the product container. This Safety Data Sheet adheres to the standards and regulatory requirements of Canada and may not meet the regulatory requirements in other countries.

#### **SECTION 1. IDENTIFICATION**

Product name : DITHANE RAINSHIELD FUNGICIDE

Other means of identification : No data available

Manufacturer or supplier's details

#### **COMPANY IDENTIFICATION**

Manufacturer/importer : CORTEVA AGRISCIENCE CANADA COMPANY

#2450, 215 - 2ND STREET S.W.

CALGARY AB, T2P 1M4

**CANADA** 

**Customer Information** 

Number

: 800-667-3852

E-mail address : solutions@corteva.com

**Emergency telephone** 

number

: CANUTEC

1-888-226-8832

Recommended use of the chemical and restrictions on use
Recommended use : End use fungicide product

## **SECTION 2. HAZARDS IDENTIFICATION**

GHS classification in accordance with the Hazardous Products Regulations

Combustible dust : Category 1

Skin sensitisation : Category 1

Reproductive toxicity : Category 2

**GHS** label elements

Hazard pictograms





Signal word : Warning

Hazard statements : May form combustible dust concentrations in air.

H317 May cause an allergic skin reaction.

H361 Suspected of damaging fertility or the unborn child.





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Precautionary statements : Prevention:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read

and understood.

P261 Avoid breathing dust.

P272 Contaminated work clothing should not be allowed out of

the workplace.

P280 Wear protective gloves/ protective clothing/ eye protection/

face protection.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of water.

P308 + P313 IF exposed or concerned: Get medical advice/

attention.

P333 + P313 If skin irritation or rash occurs: Get medical advice/

attention.

P362 + P364 Take off contaminated clothing and wash it before

reuse.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste dis-

posal plant.

Other hazards

None known.

#### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

#### Components

Chemical name	Common Name/Synonym	CAS-No.	Concentration (% w/w)
mancozeb (ISO)	mancozeb (ISO)	8018-01-7	75
methenamine	methenamine	100-97-0	>= 1 - < 3 *
Balance	Balance	Not Assigned	> 20

Actual concentration or concentration range is withheld as a trade secret

#### **SECTION 4. FIRST AID MEASURES**

If inhaled : Move person to fresh air. If person is not breathing, call an

emergency responder or ambulance, then give artificial respiration; if by mouth to mouth use rescuer protection (pocket mask etc). Call a poison control center or doctor for treatment

advice.

In case of skin contact : Take off contaminated clothing. Wash skin with soap and

plenty of water for 15-20 minutes. Call a poison control center

or doctor for treatment advice.

Wash clothing before reuse. Shoes and other leather items which cannot be decontaminated should be disposed of

properly.

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In case of eye contact Hold eyes open and rinse slowly and gently with water for 15-

> 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Call a poison control

center or doctor for treatment advice.

If swallowed No emergency medical treatment necessary.

None known.

Most important symptoms and effects, both acute and

delayed

Protection of first-aiders

First Aid responders should pay attention to self-protection

and use the recommended protective clothing (chemical re-

sistant gloves, splash protection).

If potential for exposure exists refer to Section 8 for specific

personal protective equipment.

Repeated excessive exposure may aggravate preexisting lung Notes to physician

disease.

May cause asthma-like (reactive airways) symptoms. Bronchodilators, expectorants, antitussives and corticosteroids

may be of help. No specific antidote.

Treatment of exposure should be directed at the control of

symptoms and the clinical condition of the patient.

Have the Safety Data Sheet, and if available, the product container or label with you when calling a poison control center or

doctor, or going for treatment.

#### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media Water spray

Alcohol-resistant foam

Unsuitable extinguishing

media

Specific hazards during fire-

fighting

Exposure to combustion products may be a hazard to health.

Do not allow run-off from fire fighting to enter drains or water

courses.

None known.

Hazardous combustion prod-

ucts

During a fire, smoke may contain the original material in addi-

tion to combustion products of varying composition which may

be toxic and/or irritating.

Combustion products may include and are not limited to:

Sulphur oxides Carbon oxides

Nitrogen oxides (NOx)

Specific extinguishing meth-

ods

Remove undamaged containers from fire area if it is safe to do

Evacuate area.

Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment.

Use water spray to cool unopened containers.

Further information Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Special protective equipment

for firefighters

In the event of fire, wear self-contained breathing apparatus.

Use personal protective equipment.

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#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protec- :

tive equipment and emergency procedures

Ensure adequate ventilation.

Avoid dust formation. Avoid breathing dust.

Use personal protective equipment.

Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

**Environmental precautions** 

If the product contaminates rivers and lakes or drains inform

respective authorities.

Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water.

Local authorities should be advised if significant spillages

cannot be contained.

Prevent from entering into soil, ditches, sewers, undwater. See

Section 12, Ecological Information.

Methods and materials for containment and cleaning up Local or national regulations may apply to releases and disposal of this material, as well as those materials and items

employed in.

Pick up and arrange disposal without creating dust.

Recovered material should be stored in a vented container. The vent must prevent the ingress of water as further reaction with spilled materials can take place which could lead to over-

pressurization of the container.

Keep in suitable, closed containers for disposal.

Sweep up or vacuum up spillage and collect in suitable con-

tainer for disposal.

See Section 13, Disposal Considerations, for additional infor-

mation.

#### **SECTION 7. HANDLING AND STORAGE**

Advice on safe handling

Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Provide sufficient air exchange and/or exhaust in work rooms.

Avoid formation of respirable particles.

Do not breathe vapours/dust.

Do not smoke.

Handle in accordance with good industrial hygiene and safety practice.

Avoid exposure - obtain special instructions before use. Smoking, eating and drinking should be prohibited in the ap-

plication area.

Do not get on skin or clothing. Avoid inhalation of vapour or mist.

Do not swallow.

Avoid contact with skin and eyes.

Avoid contact with eyes.

Take care to prevent spills, waste and minimize release to the

environment.

Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.





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Conditions for safe storage : Store in a closed container.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage. Keep in properly labelled containers.

Store in accordance with the particular national regulations.

Materials to avoid : Strong oxidizing agents

Packaging material : Unsuitable material: None known.

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
mancozeb (ISO)	8018-01-7	TWAEV (to- tal dust)	0.2 mg/m3 (Manganese)	CA QC OEL
methenamine	100-97-0	TWA	10 mg/m3	Dow IHG
		STEL	0.35 ppm 2 mg/m3	CA ON OEL
		TWA (Inhalable fraction and vapor)	1 mg/m3	ACGIH

**Engineering measures** : Use engineering controls to maintain airborne level below

exposure limit requirements or guidelines.

If there are no applicable exposure limit requirements or

guidelines, use only with adequate ventilation.

Local exhaust ventilation may be necessary for some opera-

tions.

Personal protective equipment

Respiratory protection : Respiratory protection should be worn when there is a poten-

tial to exceed the exposure limit requirements or guidelines.

If there are no applicable exposure limit requirements or

guidelines, use an approved respirator.

Selection of air-purifying or positive-pressure supplied-air will depend on the specific operation and the potential airborne

concentration of the material.

For emergency conditions, use an approved positive-

pressure self-contained breathing apparatus.

Hand protection

Remarks : Use gloves chemically resistant to this material. Examples of

preferred glove barrier materials include: Polyvinyl chloride ("PVC" or "vinyl"). Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications

provided by the glove supplier.

Eye protection : Use safety glasses (with side shields).

Skin and body protection : Use protective clothing chemically resistant to this material.

Selection of specific items such as face shield, boots, apron,

or full body suit will depend on the task.





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## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : Granules.

Colour : Yellow to brown

Odour : Sulfur-like

Odour Threshold : No data available

pH : 7.2

Concentration: 1.0 % Method: pH Electrode (1% aqueous suspension)

Melting point/range : No data available

Freezing point Not applicable

Boiling point/boiling range : Not applicable

Flash point : Method: closed cup

Not applicable

Evaporation rate : Not applicable

Flammability (solid, gas) : May form combustible dust concentrations in air.

Upper explosion limit / Upper

flammability limit

Not applicable

Lower explosion limit / Lower

flammability limit

Not applicable

Vapour pressure : Not applicable

Relative vapour density : Not applicable

Density : Not applicable

Bulk density : 0.55 g/cm3Method: Loose Volumetric

Solubility(ies)

Water solubility : No data available

Auto-ignition temperature : 144.0 °C

Viscosity

Viscosity, dynamic : Not applicable

Explosive properties : No

Method: EEC A14

GLP: yes

Oxidizing properties : No

Method: EU Method A.17 (Oxidizing Properties (Solids))

GLP: yes

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#### **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : Not classified as a reactivity hazard.

Chemical stability : No decomposition if stored and applied as directed.

Stable under normal conditions.

Possibility of hazardous reac-

tions

Stable under recommended storage conditions.

No hazards to be specially mentioned.

None known.

Conditions to avoid : None known. Incompatible materials : None.

Incompatible materials : Hazardous decomposition :

products

Decomposition products depend upon temperature, air supply

and the presence of other materials.

Decomposition products can include and are not limited to:

Sulphur oxides Carbon oxides

Nitrogen oxides (NOx)

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

## **Acute toxicity**

## Components:

mancozeb (ISO):

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 5.14 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

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

methenamine:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg

Symptoms: No deaths occurred at this concentration.

Assessment: The substance or mixture has no acute oral tox-

icity

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg

Symptoms: No deaths occurred at this concentration.

Assessment: The substance or mixture has no acute dermal

toxicity

#### Skin corrosion/irritation

## Components:

methenamine:

Species : Rabbit

Result : No skin irritation



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## Serious eye damage/eye irritation

**Components:** 

methenamine:

Species : Rabbit

Result : No eye irritation

Respiratory or skin sensitisation

Components:

mancozeb (ISO):

Species : Guinea pig

Assessment : May cause sensitisation by skin contact.

methenamine:

Species : Guinea pig

Assessment : The product is a skin sensitiser, sub-category 1B.

Germ cell mutagenicity

**Components:** 

mancozeb (ISO):

Germ cell mutagenicity -

Assessment

In vitro genetic toxicity studies were predominantly negative.,

Animal genetic toxicity studies were negative.

methenamine:

Germ cell mutagenicity -

Assessment

In vitro genetic toxicity studies were inconclusive.

Carcinogenicity

**Components:** 

mancozeb (ISO):

Carcinogenicity - Assess-

ment

Has caused cancer at high doses in laboratory rats.

methenamine:

Carcinogenicity - Assess-

ment

Did not cause cancer in laboratory animals.

Reproductive toxicity

Components:

mancozeb (ISO):

Reproductive toxicity - As-

sessment

Suspected human reproductive toxicant

Has caused birth defects in laboratory animals only at doses

toxic to the mother., Has been toxic to the fetus in laboratory

animals at doses toxic to the mother.

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methenamine:

Reproductive toxicity - As-

sessment

In animal studies, did not interfere with reproduction.

Did not cause birth defects or any other fetal effects in labora-

tory animals.

STOT - single exposure

Components:

methenamine:

Assessment : Available data are inadequate to determine single exposure

specific target organ toxicity.

Repeated dose toxicity

**Components:** 

mancozeb (ISO):

Remarks : In animals, effects have been reported on the following or-

gans: Thyroid. Liver.

methenamine:

Remarks : Based on available data, repeated exposures are not antici-

pated to cause additional significant adverse effects.

**Aspiration toxicity** 

**Components:** 

mancozeb (ISO):

Based on physical properties, not likely to be an aspiration hazard.

methenamine:

Based on available information, aspiration hazard could not be determined.

**SECTION 12. ECOLOGICAL INFORMATION** 

**Ecotoxicity** 

**Product:** 

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): 5.1 mg/l

Exposure time: 96 h Test Type: static test

Method: OECD Test Guideline 203 or Equivalent

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 4.23 mg/l

Exposure time: 48 h

Test Type: flow-through test

Method: OECD Test Guideline 202 or Equivalent

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Toxicity to algae/aquatic

plants

ErC50 (Pseudokirchneriella subcapitata (green algae)): 0.150

mg/l

End point: Growth rate inhibition

Exposure time: 72 h Test Type: static test

Toxicity to terrestrial organ-

isms

contact LD50 (Apis mellifera (bees)): > 100 micrograms/bee

Exposure time: 48 h End point: mortality

**Components:** 

mancozeb (ISO):

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.088 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 0.073 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

EyC50 (Scenedesmus capricornutum (fresh water algae)):

0.044 mg/l

Exposure time: 120 h

Toxicity to soil dwelling or-

ganisms

LC50 (Eisenia fetida (earthworms)): > 299 mg/kg

Exposure time: 14 d

Toxicity to terrestrial organ-

isms

oral LD50 (Colinus virginianus (Bobwhite quail)): > 3200

mg/kg bodyweight.

oral LD50 (Apis mellifera (bees)): > 100 µg/bee

Exposure time: 48 h End point: mortality

contact LD50 (Apis mellifera (bees)): > 100 µg/bee

Exposure time: 48 h End point: mortality

**Ecotoxicology Assessment** 

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

methenamine:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 49,800 mg/l

Exposure time: 96 h

Test Type: flow-through test Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 36,000 mg/l

Exposure time: 48 h
Test Type: static test

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

ErC50 (Selenastrum capricornutum (green algae)): 3,000 mg/l

Exposure time: 14 d

NOEC (Selenastrum capricornutum (green algae)): 1,500 mg/l

Exposure time: 14 d



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Toxicity to microorganisms : NOEC: > 100 mg/l

Exposure time: 2 h

## Persistence and degradability

## **Components:**

mancozeb (ISO):

Biodegradability : Result: Not biodegradable

Remarks: Degradation is expected in the soil environment

within days to weeks.

Based on stringent OECD test guidelines, this material cannot be considered as readily biodegradable; however, these results do not necessarily mean that the material is not biode-

gradable under environmental conditions.

Stability in water : Test Type: Hydrolysis

Degradation half life (half-life): 17 h (25 °C) pH: 7

Photodegradation : Test Type: Half-life (indirect photolysis)

Sensitiser: OH radicals

Concentration: 1,500,000 1/cm3 Rate constant: 2.1237E-10 cm3/s

Method: Estimated.

methenamine:

Biodegradability : Result: Readily biodegradable.

Biodegradation: 54 - 97 % Exposure time: 28 d

Method: OECD Test Guideline 301C or Equivalent

Remarks: 10-day Window: Not applicable

Material is readily biodegradable. Passes OECD test(s) for

ready biodegradability.

ThOD : 3.2 kg/kg

#### Bioaccumulative potential

#### Components:

mancozeb (ISO):

Bioaccumulation : Bioconcentration factor (BCF): 2.1 - 3.1

Method: Estimated.

Partition coefficient: n-

octanol/water

log Pow: 1.33

Method: Estimated.

Remarks: Bioconcentration potential is low (BCF < 100 or Log

Pow < 3).

methenamine:

Partition coefficient: n-

octanol/water

log Pow: -4.15

Method: Estimated.

Remarks: Bioconcentration potential is low (BCF < 100 or Log

Pow < 3).

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Balance:

Partition coefficient: n-

octanol/water

Remarks: No relevant data found.

Mobility in soil

**Components:** 

mancozeb (ISO):

Distribution among environ-

mental compartments

Koc: 1000

Method: Estimated.

Remarks: Potential for mobility in soil is low (Koc between 500

and 2000).

methenamine:

Distribution among environ-

mental compartments

Koc: < 1

Method: Estimated.

Remarks: Potential for mobility in soil is very high (Koc be-

tween 0 and 50).

Balance:

Distribution among environ-

mental compartments

Remarks: No relevant data found.

Other adverse effects

**Components:** 

mancozeb (ISO):

Results of PBT and vPvB

assessment

This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be

very persistent and very bioaccumulating (vPvB).

Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list

of substances that deplete the ozone layer.

methenamine:

Results of PBT and vPvB

assessment

This substance has not been assessed for persistence, bioac-

cumulation and toxicity (PBT).

Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list

of substances that deplete the ozone layer.

Balance:

Results of PBT and vPvB

assessment

This substance has not been assessed for persistence, bioac-

cumulation and toxicity (PBT).

Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list

of substances that deplete the ozone layer.

**SECTION 13. DISPOSAL CONSIDERATIONS** 

**Disposal methods** 

Waste from residues : If wastes and/or containers cannot be disposed of according

to the product label directions, disposal of this material must





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be in accordance with your local or area regulatory authorities. This information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regu-

lations.

If the material as supplied becomes a waste, follow all appli-

cable regional, national and local laws.

## **SECTION 14. TRANSPORT INFORMATION**

#### International Regulations

**UNRTDG** 

UN number : UN 3077

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(MANCOZEB)

Class : 9
Packing group : III
Labels : 9

**IATA-DGR** 

UN/ID No. : UN 3077

Proper shipping name : Environmentally hazardous substance, solid, n.o.s.

(MANCOZEB)

Class : 9 Packing group : III

Labels : Miscellaneous

Packing instruction (cargo

aircraft)

Packing instruction (passen- :

ger aircraft)

956

956

**IMDG-Code** 

UN number : UN 3077

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(MANCOZEB)

Class : 9
Packing group : III
Labels : 9
EmS Code : F-A, S-F
Marine pollutant : yes

Remarks : Stowage category A

# 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 3077



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Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(Mancozeb)

Class : 9
Packing group : III
Labels : 9
ERG Code : 171

Marine pollutant : yes(Mancozeb)

#### **Further information**

Marine Pollutants assigned UN number 3077 and 3082 in single or combination packaging containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 KG or less for solids may be transported as non-dangerous goods as provided in section 2.10.2.7 of IMDG code, IATA Special provision A197, and ADR/RID special provision 375.

For Canadian Ground transportation TDG Exemption: 1.45.1 Marine Pollutants (Part 3, Documentation, and Part 4, Dangerous Goods Safety Marks, do not apply if they are in transport solely on land by road vehicle or railway vehicle).

## 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**

The components of this product are reported in the following inventories:

DSL : This product contains components that are not listed on the

Canadian DSL nor NDSL.

Pest Control Products Act ( PCPA ) Registration Number : 20553

Read the PCPA label, authorized under the Pest Control Products Act, prior to using or handling this pest control product.

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 (PCPA). There are Canada-specific environmental requirements for handling, use, and disposal of this pest control product that are indicated on the label. These requirements differ from the classification criteria and hazard information required for GHS-consistent safety data sheets. Following is the hazard information required on the pest control products label:

PCPA Label Hazard Communications:

Read the label and booklet before using. Keep out of reach of children.

Allergens Contained in the Pest Control Product: Warning, contains the allergen sulfites

This product is toxic to:

Aquatic organisms

Small wild mammals

Birds

May Be Toxic

Bees

Toxic to certain beneficial arthropods (which may include predatory and parasitic insects, spiders, and mites)





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#### **SECTION 16. OTHER INFORMATION**

Information Source and References

This SDS is prepared by Product Regulatory Services and Hazard Communications Groups from information supplied by internal references within our company.

#### Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

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

Dow IHG : Dow Industrial Hygiene Guideline

ACGIH / TWA : 8-hour, time-weighted average

CA ON OEL / STEL : Short-Term Exposure Limit (STEL)

CA QC OEL / TWAEV : Time-weighted average exposure value

Dow IHG / 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

Revision Date : 04/19/2022 Date format : mm/dd/yyyy

Product code: GF-894



# DITHANE RAINSHIELD FUNGICIDE

Version Revision Date: SDS Number: Date of last issue: -

1.0 04/19/2022 800080002740 Date of first issue: 04/19/2022

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**CA / 6N**