

SAFETY DATA SHEET



FORE™ 80WP RAINSHIELD™

Version 1.0 Revision Date: 02/02/2022 SDS Number: 800080003561 Date of last issue: -
Date of first issue: 02/02/2022

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 the United States and may not meet the regulatory requirements in other countries.

SECTION 1. IDENTIFICATION

Product name : FORE™ 80WP RAINSHIELD™

Manufacturer or supplier's details

COMPANY IDENTIFICATION

Manufacturer/importer : CORTEVA AGRISCIENCE LLC
9330 ZIONSVILLE RD
INDIANAPOLIS, IN, 46268-1053
UNITED STATES

Customer Information Number : 800-992-5994

E-mail address : customerinformation@corteva.com

Emergency telephone : INFOTRAC (CONTRACT 84224).
800-992-5994 or 317-337-6009

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 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Combustible dust

Eye irritation : Category 2B

Skin sensitization : Category 1

Reproductive toxicity : Category 2

GHS label elements

Hazard pictograms :



SAFETY DATA SHEET



FORE™ 80WP RAINSHIELD™

Version 1.0 Revision Date: 02/02/2022 SDS Number: 800080003561 Date of last issue: -
Date of first issue: 02/02/2022

Signal Word : Warning

Hazard Statements : May form combustible dust concentrations in air.
H317 May cause an allergic skin reaction.
H320 Causes eye irritation.
H361 Suspected of damaging fertility or the unborn child.

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/ fume/ gas/ mist/ vapors/ spray.
P264 Wash skin thoroughly after handling.
P272 Contaminated work clothing must 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 soap and water.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P363 Wash contaminated clothing before reuse.

Storage:
P405 Store locked up.

Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

| Chemical name | CAS-No. | Concentration (% w/w) |
|----------------|--------------|-----------------------|
| mancozeb (ISO) | 8018-01-7 | 80 |
| methenamine | 100-97-0 | >= 1 - < 3 |
| Balance | Not Assigned | >= 10 - < 20 |

Actual concentration is withheld as a trade secret

FORE™ 80WP RAINSHIELD™

| | | | |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: - |
| 1.0 | 02/02/2022 | 800080003561 | Date of first issue: 02/02/2022 |

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.
- 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.
Suitable emergency eye wash facility should be available in work area.
- If swallowed : No emergency medical treatment necessary.
- Most important symptoms and effects, both acute and delayed : None known.
- Protection of first-aiders : First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection).
If potential for exposure exists refer to Section 8 for specific personal protective equipment.
- Notes to physician : 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.
Repeated excessive exposure may aggravate preexisting lung disease.

SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Water spray
Alcohol-resistant foam
- Unsuitable extinguishing media : None known.
- Specific hazards during fire fighting : Exposure to combustion products may be a hazard to health.
Do not allow run-off from firefighting to enter drains or water courses.
- Hazardous combustion products : During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating.

SAFETY DATA SHEET



FORE™ 80WP RAINSHIELD™

Version 1.0 Revision Date: 02/02/2022 SDS Number: 800080003561 Date of last issue: -
Date of first issue: 02/02/2022

Combustion products may include and are not limited to:
Sulfur oxides
Carbon oxides
Nitrogen oxides (NOx)

- Specific extinguishing methods : Remove undamaged containers from fire area if it is safe to do so.
Evacuate area.
Use extinguishing measures that are appropriate to local circumstances 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 fire-fighters : In the event of fire, wear self-contained breathing apparatus.
Use personal protective equipment.
-

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : 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, underwater.
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 container for disposal.
See Section 13, Disposal Considerations, for additional information.
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SECTION 7. HANDLING AND STORAGE

SAFETY DATA SHEET



FORE™ 80WP RAINSHIELD™

Version 1.0 Revision Date: 02/02/2022 SDS Number: 800080003561 Date of last issue: -
Date of first issue: 02/02/2022

- Advice on safe handling : Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
Avoid formation of respirable particles.
Do not breathe vapors/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 application area.
Do not get on skin or clothing.
Avoid inhalation of vapor or mist.
Do not swallow.
Do not get in eyes.
Avoid contact with skin and 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.
- 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 labeled 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

Ingredients with workplace control parameters

| Components | CAS-No. | Value type (Form of exposure) | Control parameters / Permissible concentration | Basis |
|----------------|-----------|-------------------------------|--|----------|
| mancozeb (ISO) | 8018-01-7 | TWA (Total) | 1 mg/m ³ | US WEEL |
| | | C | 5 mg/m ³ (Manganese) | OSHA Z-1 |
| methenamine | 100-97-0 | TWA | 10 mg/m ³ | Dow IHG |

- 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 operations.

Personal protective equipment

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

SAFETY DATA SHEET



FORE™ 80WP RAINSHIELD™

Version 1.0 Revision Date: 02/02/2022 SDS Number: 800080003561 Date of last issue: -
Date of first issue: 02/02/2022

Hand protection : 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.

Remarks : Use gloves chemically resistant to this material. 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 chemical goggles.

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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Powder

Color : Green to blue

Odor : Obnoxious

Odor Threshold : No data available

pH : 6.9 (73.6 °F / 23.1 °C)
Concentration: 1 %
Method: pH Electrode
(1% aqueous suspension)

Melting point/range : No data available

Freezing point : Not applicable

Boiling point/boiling range : Not applicable

Flash point : Not applicable to solids

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

SAFETY DATA SHEET



FORE™ 80WP RAINSHIELD™

Version 1.0 Revision Date: 02/02/2022 SDS Number: 800080003561 Date of last issue: -
Date of first issue: 02/02/2022

Vapor pressure : Not applicable
Relative vapor density : Not applicable
Density : No data available
Bulk density : 0.408 g/cm³
Solubility(ies)
 Water solubility : No data available
Autoignition temperature : Not applicable
Viscosity
 Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidizing properties : No data available

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 reactions : Stable under recommended storage conditions.
No hazards to be specially mentioned.
None known.
Conditions to avoid : None known.
Incompatible materials : None.
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:
Sulfur oxides
Carbon oxides
Nitrogen oxides (NO_x)

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg
Remarks: For similar material(s):
Acute inhalation toxicity : Remarks: As product:
The LC50 has not been determined.
LC50 (Rat): > 5.14 mg/l
Exposure time: 4 h
Test atmosphere: Dust

SAFETY DATA SHEET



FORE™ 80WP RAINSHIELD™

Version 1.0 Revision Date: 02/02/2022 SDS Number: 800080003561 Date of last issue: -
Date of first issue: 02/02/2022

Assessment: The substance or mixture has no acute inhalation toxicity
Remarks: For the active ingredient(s):

Acute dermal toxicity : LD50 (Rat): > 5,000 mg/kg
Remarks: For similar material(s):

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 toxicity

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

Product:

Species : Rabbit
Result : No skin irritation

Components:

methenamine:

Species : Rabbit
Result : No skin irritation

Serious eye damage/eye irritation

Product:

Species : Rabbit
Result : Mild eye irritation

SAFETY DATA SHEET



FORE™ 80WP RAINSHIELD™

Version 1.0 Revision Date: 02/02/2022 SDS Number: 800080003561 Date of last issue: -
Date of first issue: 02/02/2022

Components:

methenamine:

Species : Rabbit
Result : No eye irritation

Respiratory or skin sensitization

Components:

mancozeb (ISO):

Species : Guinea pig
Assessment : May cause sensitization by skin contact.

methenamine:

Species : Guinea pig
Assessment : The product is a skin sensitizer, 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 - Assessment : Has caused cancer at high doses in laboratory rats.

methenamine:

Carcinogenicity - Assessment : Did not cause cancer in laboratory animals.

IARC No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

FORE[™] 80WP RAINSHIELD[™]

Version 1.0 Revision Date: 02/02/2022 SDS Number: 800080003561 Date of last issue: -
Date of first issue: 02/02/2022

Reproductive toxicity**Components:****mancozeb (ISO):**

Reproductive toxicity - Assessment : 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.

methenamine:

Reproductive toxicity - Assessment : In animal studies, did not interfere with reproduction.
Did not cause birth defects or any other fetal effects in laboratory 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 organs:
Thyroid.
Liver.

methenamine:

Remarks : Based on available data, repeated exposures are not anticipated 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.

FORE™ 80WP RAINSHIELD™

| | | | |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: - |
| 1.0 | 02/02/2022 | 800080003561 | Date of first issue: 02/02/2022 |

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity**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 organisms | : | LC50 (Eisenia fetida (earthworms)): > 299 mg/kg Exposure time: 14 d |
| Toxicity to terrestrial organisms | : | 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 |
| Toxicity to microorganisms | : | NOEC: > 100 mg/l Exposure time: 2 h |

FORE™ 80WP RAINSHIELD™

Version 1.0 Revision Date: 02/02/2022 SDS Number: 800080003561 Date of last issue: -
Date of first issue: 02/02/2022

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 biodegradable 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)
Sensitizer: 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).

SAFETY DATA SHEET



FORE™ 80WP RAINSHIELD™

Version 1.0 Revision Date: 02/02/2022 SDS Number: 800080003561 Date of last issue: -
Date of first issue: 02/02/2022

Balance:

Partition coefficient: n-octanol/water : Remarks: No relevant data found.

Mobility in soil

Components:

mancozeb (ISO):

Distribution among environmental compartments : Koc: 1000
Method: Estimated.
Remarks: Potential for mobility in soil is low (Koc between 500 and 2000).

methenamine:

Distribution among environmental compartments : Koc: < 1
Method: Estimated.
Remarks: Potential for mobility in soil is very high (Koc between 0 and 50).

Balance:

Distribution among environmental 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, bioaccumulation 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, bioaccumulation and toxicity (PBT).

Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

FORE™ 80WP RAINSHIELD™

| | | | |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: - |
| 1.0 | 02/02/2022 | 800080003561 | Date of first issue: 02/02/2022 |

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 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 regulations.

If the material as supplied becomes a waste, follow all applicable 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) : 956
 Packing instruction (passenger aircraft) : 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

SAFETY DATA SHEET



FORE™ 80WP RAINSHIELD™

Version 1.0 Revision Date: 02/02/2022 SDS Number: 800080003561 Date of last issue: -
Date of first issue: 02/02/2022

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

Not applicable for product as supplied.

Domestic regulation

49 CFR

UN/ID/NA number : UN 3077
Proper shipping name : Environmentally hazardous substance, solid, n.o.s.
(Mancozeb)
Class : 9
Packing group : III
Labels : CLASS 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 5L 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.

Above applies only to containers over 119 gallons or 450 liters. Not regulated if shipped in packages less than or equal to 119 gallons (450 liters).

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

SARA 311/312 Hazards : Combustible dust
Respiratory or skin sensitization
Reproductive toxicity
Serious eye damage or eye irritation

SARA 313 : This product contains the following substances which are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and which are listed in 40 CFR 372.

mancozeb (ISO) 8018-01-7 80 %

The following components are subject to reporting levels established by SARA Title III, Section 313:

mancozeb (ISO) 8018-01-7 >= 70 - < 90 %

US State Regulations

Pennsylvania Right To Know

mancozeb (ISO) 8018-01-7

SAFETY DATA SHEET



FORE™ 80WP RAINSHIELD™

Version 1.0 Revision Date: 02/02/2022 SDS Number: 800080003561 Date of last issue: -
Date of first issue: 02/02/2022

California Prop. 65

WARNING: This product can expose you to chemicals including mancozeb (ISO), which is/are known to the State of California to cause cancer, and methanol, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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

TSCA : Product contains substance(s) not listed on TSCA inventory.

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

Federal Insecticide, Fungicide and Rodenticide Act

EPA Registration Number : 62719-388

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

CAUTION

Harmful if absorbed through skin
Causes moderate eye irritation

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

Dow IHG : Dow Industrial Hygiene Guideline
OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
US WEEL : USA. Workplace Environmental Exposure Levels (WEEL)
Dow IHG / TWA : Time weighted average
OSHA Z-1 / C : Ceiling
US WEEL / TWA : 8-hr TWA

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration asso-

SAFETY DATA SHEET



FORE™ 80WP RAINSHIELD™

| | | | |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: - |
| 1.0 | 02/02/2022 | 800080003561 | Date of first issue: 02/02/2022 |

ciated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance 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

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