

1. Identification

Product identifier

Product name Diplomat 5SC Fungicide
PCP No. 32918

Recommended use of the chemical and restrictions on use

Application For foliar treatment of diseases on listed food crops and greenhouse grown
ornamentals

Details of the supplier of the safety data sheet

Company Engage Agro Corporation
1030 Gordon St.
Guelph, ON
N1G 4X5
www.engageagro.com
(519) 826-7878
Emergency Information:
In case of emergency involving a poisoning, major spill, or fire call 1-866-336-2983

2. Hazard(s) identification

Classification of the substance or mixture

Physical hazards Not classified
Health hazards Not classified
Environmental hazards Not classified
EPA Signal Word Caution, see section 15

Label elements

Precautionary statements P102 Keep out of reach of children.
P280 Wear protective gloves/protective clothing.
P302+P352 If on skin: Wash with plenty of water.
P321 Specific treatment (see medical advice on this label).
P362+P364 Take off contaminated clothing and wash it before reuse.
P501 Dispose of contents/container in accordance with local regulations.

3. Composition/information on ingredients

Mixtures The active ingredient: Polyoxin D zinc salt 5%
Non-Hazardous components: 95%

4. First-aid measures

Description of first aid measures

Inhalation Move affected person to fresh air at once. If breathing stops, provide artificial respiration. Get medical attention.

Ingestion Immediately call a poison center/doctor. Consult a physician for specific advice. Rinse mouth thoroughly with water. Give plenty of water to drink. Do not induce vomiting. Get medical attention if any discomfort continues. Never give anything by mouth to an unconscious person.

Skin Contact Remove contaminated clothing. Wash skin thoroughly with soap and water. Continue to rinse for at least 15 minutes. Get medical attention.

Eye contact Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues. Consult a physician for specific advice.

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Most important symptoms and effects, both acute and delayed

General information No specific symptoms noted.

Indication of immediate medical attention and special treatment needed

Notes for the doctor No specific recommendations. Treat symptomatically.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media Extinguish with the following media: Dry chemicals.

Special hazards arising from the substance or mixture

Hazardous combustion products Not known.

Advice for firefighters

Protective actions during firefighting Keep up-wind to avoid fumes. Keep run-off water out of sewers and watercourses. Dike for water control.

Special protective equipment for firefighters No specific fire or explosion hazard, no dangerous reactions known.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet. Provide adequate ventilation.

Environmental precautions

Environmental precautions Avoid spillage or runoff entering drains, sewers or watercourses.

Methods and material for containment and cleaning up

Methods for cleaning up Collect and place in suitable waste disposal containers and seal securely. Flush contaminated area with plenty of water.

Reference to other sections For waste disposal, see section 13.

7. Handling and storage

Precautions for safe handling

Usage precautions Provide adequate ventilation. Wear protective clothing as described in Section 8 of this safety data sheet. Handle and open container with care.

Advice on general occupational hygiene When using do not eat, drink or smoke. Good personal hygiene procedures should be implemented. Wash at the end of each work shift and before eating, smoking and using the toilet.

Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep away from food, drink and animal feeding stuffs. Keep out of the reach of children.

Specific end uses(s)

Specific end uses(s) The identified uses for this product are detailed in Section 1.2.

8. Exposure Controls/personal protection

Ingredient comments No exposure limits known for ingredient(s). Not established: OSHA PELs, ACGIH TLVs
OSHA = Occupational Safety and Health Administration.
ACGIH = American Conference of Governmental Industrial Hygienists. PEL = Permissible Exposure Limit.
TLV = Threshold Limit Value.

Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate general and local exhaust ventilation.

Eye/face protection

None specified.

Hand protection

Wear chemical-resistant gloves.

Other skin and body protection

Wear appropriate clothing (long sleeved shirt, pants, shoes and socks.) to prevent from skin and body contact

Hygiene measures

Promptly remove any clothing that becomes contaminated. Wash promptly if skin becomes contaminated. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Do not eat, drink or smoke when using this product.

Respiratory protection

Respiratory protection not required.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance	Liquid. Suspension. Liquid and solid phases separate when not agitated.
Color	Dark brown
Odor	Similar to vegetable oil.
Odor threshold	Not available.
pH	7.01 [1% aqueous suspension (25°C)]
Melting point	Not available.
Initial boiling point and range	Not available.
Flash point	Does not flash; sample reached 232°C.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	Upper/lower flammability or explosive limits
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	1.05 @ 22°C
Solubility(ies)	No information available.
Partition coefficient	Not available.
Auto-ignition temperature	Not available.
Decomposition Temperature	Not available.
Viscosity	800 mPa·s @ 23°C.
Explosive properties	Not explosive.
Oxidising properties	Stable to oxidation and reduction (Polyoxin D Zinc Salt Technical).

10. Stability and reactivity

Reactivity	There are no known reactivity hazards associated with this product.
Stability	Stable at normal ambient temperatures and when used as recommended.
Possibility of hazardous reactions	Possibility of hazardous reactions
Conditions to avoid	Not known.

Materials to avoid	Not known.
Hazardous decomposition products	Not known.

11. Toxicological information

Information on toxicological effects

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ >5000 mg/kg, Rat

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ >5050 mg/kg, Rat

Acute toxicity - inhalation

Notes (inhalation LC₅₀) LC₅₀ >2.20 mg/l, Rat

Skin corrosion/irritation

Animal data Primary irritation index = 0.3; slightly irritating

Serious eye damage/irritation

Serious eye damage/irritation No irritation observed in 3 of 3 rabbits at 1 to 72 hours after exposure

Respiratory sensitisation

Respiratory sensitisation Not available

Skin sensitisation

Skin sensitisation The test substance produced very faint to faint erythema in 15 of 20 Test animals, but no reaction in any naïve control animals after the challenge treatment. Therefore, Polyoxin D Zinc Salt SSC is a mild sensitizer in guinea pigs.

Specific target organ toxicity - single exposure

STOT - repeated exposure No target organ toxicity.

Aspiration hazard

Aspiration hazard Not available.

12. Ecological Information

Toxicity

Ecological information on ingredients –TGAI (Polyoxin D Zinc Salt Technical)

Acute toxicity - fish LC₅₀, 96 hours: >100 mg TGAI/L, Cyprinus carpio (Common carp)

LC₅₀, 96 hours: 5.1 mg TGAI/L (rainbow trout)

NOEC, 96 hours: 3.5 mg TGAI/L (rainbow trout)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 1.4 mg TGAI/L (Daphnia magna)

NOEC, 48-hours: 0.11 mg TGAI/L (Daphnia magna)

Acute toxicity - aquatic plants EbC₅₀, 0 - 72 hours: 6.47 mg TGAI/L, Algae

ErC₅₀, 24 - 72 hours: 7.19 mg TGAI/L, Algae

Acute toxicity - terrestrial Acute oral toxicity:

LD₅₀, 48 hours: 32.885 µg TGAI/honeybee, Apis mellifera (Honeybee)

Acute contact toxicity:

LD₅₀, 48 hours: >100 µgTGAI/honeybee, Apis mellifera (Honeybee)

Persistence and degradability – Polyoxin D

Persistence and degradability Polyoxin D is degraded by hydrolysis (exposure to water) and by exposure to light.

Hydrolysis DT₅₀: 32.5 days (pH 7.0)

Photodegradation in water DT₅₀: 0.4 days (Natural water)

Aerobic soil metabolism DT₅₀: 15.9 days (Aerobic soil)

Bioaccumulative potential

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Bioaccumulative potential	Polyoxin D is not anticipated to bioaccumulate.
Partition coefficient	Not available.
<u>Mobility in soil</u>	
Mobility	No data
<u>Results of PBT and vPvB assessment</u>	
Results of PBT and vPvB assessment	This product does not contain any substances classified as PBT or vPvB.
<u>Other adverse effects</u>	
Other adverse effects	Not known.

13. Disposal considerations

Waste treatment methods

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

14. Transport information

General	The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DoT).
Road transport notes	Not regulated.
Rail transport notes	Not regulated.
Sea transport notes	Not regulated.
Air transport notes	Not regulated.
UN Number	Not applicable.
UN proper shipping name	Not applicable.
Transport hazard class(es)	Not applicable.
IMDG subsidiary risk	
ICAO subsidiary risk	
Packing group	Not applicable.
Environmental hazards	
Environmentally Hazardous Substance	No.
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.

15. Regulatory information

Regulatory References 29 CFR 1910.1200(g) Federal Regulations (OSHA Standard).

Registration No. 32918 Pest Control products Act.

PMRA MRLs: Not applicable.

Read the label, authorized under the Pest Control Products Act, prior to using or handling the 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. 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:

- Potential skin sensitizer

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

Warning, contains the allergen soy.

US EPA tolerance exemption: 40 CFR Part 180.1285.

US EPA Registration No. 68173-4

US Federal Regulations

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities

None of the ingredients are listed or exempt.

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)

None of the ingredients are listed or exempt.

SARA Extremely Hazardous Substances EPCRA Reportable Quantities

None of the ingredients are listed or exempt.

SARA 313 Emission Reporting

None of the ingredients are listed or exempt.

CAA Accidental Release Prevention

None of the ingredients are listed or exempt.

Safety Assessments

Safety assessments have been carried out by U.S. EPA (Reg. No. 68173-1 and 68173-4).

U.S. EPA has established a tolerance exemption of Polyoxin D zinc salt in or on all food commodities (40 CFR 180.1285).

16. Other information

Revision comments	This is the second issue.
Revision date	2018/02/12
Revision	3

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