

**TREBUSET PEANUTS (UNCOLORED)**

Version 1.0      Revision Date: 01/24/2022      SDS Number: S00044189821      This version replaces all previous versions.

**SECTION 1. IDENTIFICATION**

Product name : TREBUSET PEANUTS (UNCOLORED)  
Design code. : A23228D

Product Registration number : 100-1689

**Manufacturer or supplier's details**

Company name of supplier : Syngenta Crop Protection, LLC  
Address : Post Office Box 18300  
Greensboro NC 27419  
United States of America (USA)

Telefax : 1 336 632 2192

E-mail address : sds.requests@syngenta.com

Emergency telephone : 1 800 888 8372

**Recommended use of the chemical and restrictions on use**

Recommended use : Fungicide

Restrictions on use : General Use Pesticide

**SECTION 2. HAZARDS IDENTIFICATION****GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)**

Acute toxicity (Oral) : Category 4

**GHS label elements**

Hazard pictograms :



Signal Word : Warning

Hazard Statements : H302 Harmful if swallowed.

Precautionary Statements : **Prevention:**  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.

**Response:**  
P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.

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

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posal plant.

**Other hazards**

None known.

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

Substance / Mixture : Mixture

**Components**

| Chemical name                                                                                                | CAS-No.      | Concentration (% w/w) |
|--------------------------------------------------------------------------------------------------------------|--------------|-----------------------|
| Azoxystrobin                                                                                                 | 131860-33-8  | 11.039                |
| pydiflumetofen                                                                                               | 1228284-64-7 | 6.854                 |
| propane-1,2-diol                                                                                             | 57-55-6      | $\geq 5 - < 10$       |
| fludioxonil                                                                                                  | 131341-86-1  | 3.47                  |
| sedaxane                                                                                                     | 874967-67-6  | 3.337                 |
| talc                                                                                                         | 14807-96-6   | $\geq 1 - < 5$        |
| Residues (petroleum), catalytic re-former fractionator, sulfonated, polymers with formaldehyde, sodium salts | 68425-94-5   | $\geq 1 - < 5$        |
| titanium dioxide                                                                                             | 13463-67-7   | $\geq 1 - < 5$        |
| metalaxyl-M                                                                                                  | 70630-17-0   | 0.642                 |
| Triethylamine                                                                                                | 121-44-8     | $0 - < 0.1$           |

Actual concentration is withheld as a trade secret

**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 : Take the victim into fresh air.  
If breathing is irregular or stopped, administer artificial respiration.  
Keep patient warm and at rest.  
Call a physician or poison control center immediately.
- In case of skin contact : 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 : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
Remove contact lenses.  
Immediate medical attention is required.
- 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.

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**SECTION 5. FIRE-FIGHTING MEASURES**

- Suitable extinguishing media : Extinguishing media - small fires  
Use water spray, alcohol-resistant foam, dry chemical or carbon 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 ingredients, fire will produce dense black smoke containing hazardous products 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.  
Cool closed containers exposed to fire with water spray.
- Special protective equipment for fire-fighters : Wear full protective clothing and self-contained breathing apparatus.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions, protective equipment and emergency procedures : Refer to protective measures listed in sections 7 and 8.
- Environmental precautions : Prevent further leakage or spillage if safe to do so.  
Do not flush into surface water or sanitary sewer system.  
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).  
Clean contaminated surface thoroughly.  
Clean with detergents. Avoid solvents.  
Retain and dispose 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.

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**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**
**Ingredients with workplace control parameters**

| Components       | CAS-No.      | Value type<br>(Form of exposure)    | Control parameters / Permissible concentration | Basis     |
|------------------|--------------|-------------------------------------|------------------------------------------------|-----------|
| Azoxystrobin     | 131860-33-8  | TWA                                 | 4 mg/m <sup>3</sup>                            | Syngenta  |
| pydiflumetofen   | 1228284-64-7 | TWA                                 | 5 mg/m <sup>3</sup>                            | Syngenta  |
| propane-1,2-diol | 57-55-6      | TWA                                 | 10 mg/m <sup>3</sup>                           | US WEEL   |
| fludioxonil      | 131341-86-1  | TWA                                 | 5 mg/m <sup>3</sup>                            | Syngenta  |
|                  |              | TWA (Inhalable particulate matter)  | 1 mg/m <sup>3</sup>                            | ACGIH     |
| sedaxane         | 874967-67-6  | TWA                                 | 5 mg/m <sup>3</sup>                            | Syngenta  |
| talc             | 14807-96-6   | TWA (Dust)                          | 20 Million particles per cubic foot            | OSHA Z-3  |
|                  |              | TWA (respirable dust fraction)      | 2 mg/m <sup>3</sup>                            | OSHA P0   |
|                  |              | TWA (Respirable particulate matter) | 2 mg/m <sup>3</sup>                            | ACGIH     |
|                  |              | TWA (Respirable)                    | 2 mg/m <sup>3</sup>                            | NIOSH REL |
|                  |              | TWA                                 | 0.1 fibres per cubic centimeter                | ACGIH     |
| titanium dioxide | 13463-67-7   | TWA (total dust)                    | 15 mg/m <sup>3</sup>                           | OSHA Z-1  |
|                  |              | TWA (Total dust)                    | 10 mg/m <sup>3</sup>                           | OSHA P0   |
|                  |              | TWA                                 | 10 mg/m <sup>3</sup> (Titanium dioxide)        | ACGIH     |
| metalaxyl-M      | 70630-17-0   | TWA                                 | 5 mg/m <sup>3</sup>                            | Syngenta  |
| Triethylamine    | 121-44-8     | TWA                                 | 0.5 ppm                                        | ACGIH     |
|                  |              | STEL                                | 1 ppm                                          | ACGIH     |
|                  |              | TWA                                 | 25 ppm<br>100 mg/m <sup>3</sup>                | OSHA Z-1  |
|                  |              | STEL                                | 15 ppm<br>60 mg/m <sup>3</sup>                 | OSHA P0   |
|                  |              | TWA                                 | 10 ppm<br>40 mg/m <sup>3</sup>                 | OSHA P0   |

**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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Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated.  
The extent of these protection measures depends on the actual risks in use.  
Maintain air concentrations below occupational exposure standards.  
Where necessary, seek additional occupational hygiene advice.

**Personal protective equipment**

- Respiratory protection : No personal respiratory protective equipment normally required.  
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
- Hand protection
- Remarks : No special protective equipment required.
- Eye protection : No special protective equipment required.
- Skin and body protection : No special protective equipment required.  
Select skin and body protection based on the physical job requirements.
- Protective measures : The use of technical measures should always have priority over the use of personal protective equipment.  
When selecting personal protective equipment, seek appropriate professional advice.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance : liquid
- Color : off-white
- Odor : aromatic
- Odor Threshold : No data available
- pH : 7.80  
Concentration: 1 % w/v
- Melting point/range : No data available
- Boiling point/boiling range : No data available
- Flash point : Method: Seta closed cup  
does not flash
- Evaporation rate : No data available
- Flammability (solid, gas) : No data available
- Upper explosion limit / Upper flammability limit : No data available

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|                                                  |   |                                                          |
|--------------------------------------------------|---|----------------------------------------------------------|
| Lower explosion limit / Lower flammability limit | : | No data available                                        |
| Vapor pressure                                   | : | No data available                                        |
| Relative vapor density                           | : | No data available                                        |
| Density                                          | : | 1,119 g/cm <sup>3</sup> (68 °F / 20 °C)                  |
| Solubility(ies)                                  |   |                                                          |
| Water solubility                                 | : | No data available                                        |
| Solubility in other solvents                     | : | No data available                                        |
| Partition coefficient: n-octanol/water           | : | No data available                                        |
| Autoignition temperature                         | : | 867 °F / 464 °C                                          |
| Decomposition temperature                        | : | No data available                                        |
| Viscosity                                        |   |                                                          |
| Viscosity, dynamic                               | : | 621 mPa.s (68 °F / 20 °C)                                |
| Viscosity, kinematic                             | : | No data available                                        |
| Explosive properties                             | : | Not explosive                                            |
| Oxidizing properties                             | : | The substance or mixture is not classified as oxidizing. |
| Particle size                                    | : | No data available                                        |

**SECTION 10. STABILITY AND REACTIVITY**

|                                    |   |                                                             |
|------------------------------------|---|-------------------------------------------------------------|
| Reactivity                         | : | None reasonably foreseeable.                                |
| Chemical stability                 | : | Stable under normal conditions.                             |
| Possibility of hazardous reactions | : | No dangerous reaction known under conditions of normal use. |
| Conditions to avoid                | : | No decomposition if used as directed.                       |
| Incompatible materials             | : | None known.                                                 |
| Hazardous decomposition products   | : | No hazardous decomposition products are known.              |

**SECTION 11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure**

Ingestion  
Inhalation  
Skin contact  
Eye contact

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**Acute toxicity****Product:**

- Acute oral toxicity : LD50 (Rat, female): 1,803 mg/kg  
Remarks: Based on data from similar materials
- Acute inhalation toxicity : LC50 (Rat, male and female): > 2.51 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Assessment: The substance or mixture has no acute inhalation toxicity  
Remarks: Based on data from similar materials

**Components:****Azoxystrobin:**

- Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg
- Acute inhalation toxicity : LC50 (Rat, female): 0.7 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist
- Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity

**pydiflumetofen:**

- Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg
- Acute inhalation toxicity : LC50 (Rat, male and female): > 5.11 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Assessment: The component/mixture is minimally toxic after short term inhalation.
- Acute dermal toxicity : LD50 (Rat, male and female): > 5,000 mg/kg

**fludioxonil:**

- Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg
- Acute inhalation toxicity : LC50 (Rat, male and female): > 2.6 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Assessment: The substance or mixture has no acute inhalation toxicity
- Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity

**sedaxane:**

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

Acute inhalation toxicity : LC50 (Rat, male and female): > 5.244 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rat, male and female): > 5,000 mg/kg

**metalaxyl-M:**

Acute oral toxicity : LD50 (Rat, female): 375 mg/kg

Acute inhalation toxicity : LC50 (Rat, male and female): > 2.29 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Assessment: The substance or mixture has no acute inhalation toxicity  
Remarks: Highest attainable concentration

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity

**Triethylamine:**

Acute oral toxicity : LD50 (Rat): 730 mg/kg

Acute inhalation toxicity : LC50 (Rat): 7.22 mg/l  
Exposure time: 4 h  
Test atmosphere: vapor

Acute dermal toxicity : LD50 (Rat): 580 mg/kg

**Skin corrosion/irritation****Product:**

Species : Rabbit  
Result : No skin irritation  
Remarks : Based on data from similar materials

**Components:****Azoxystrobin:**

Species : Rabbit  
Result : No skin irritation

**pydiflumetofen:**

Species : Rabbit  
Result : No skin irritation

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**fludioxonil:**

|         |                      |
|---------|----------------------|
| Species | : Rabbit             |
| Result  | : No skin irritation |

**sedaxane:**

|         |                      |
|---------|----------------------|
| Species | : Rabbit             |
| Result  | : No skin irritation |

**Residues (petroleum), catalytic reformer fractionator, sulfonated, polymers with formaldehyde, sodium salts:**

|        |                                |
|--------|--------------------------------|
| Method | : in vitro skin corrosion test |
| Result | : Irritating to skin.          |

**metalaxyl-M:**

|         |                      |
|---------|----------------------|
| Species | : Rabbit             |
| Result  | : No skin irritation |

**Triethylamine:**

|         |                                                 |
|---------|-------------------------------------------------|
| Species | : Rabbit                                        |
| Result  | : Corrosive after 3 minutes or less of exposure |

**Serious eye damage/eye irritation****Product:**

|         |                                        |
|---------|----------------------------------------|
| Species | : Rabbit                               |
| Result  | : No eye irritation                    |
| Remarks | : Based on data from similar materials |

**Components:****Azoxystrobin:**

|         |                     |
|---------|---------------------|
| Species | : Rabbit            |
| Result  | : No eye irritation |

**pydiflumetofen:**

|         |                     |
|---------|---------------------|
| Species | : Rabbit            |
| Result  | : No eye irritation |

**fludioxonil:**

|         |                     |
|---------|---------------------|
| Species | : Rabbit            |
| Result  | : No eye irritation |

**sedaxane:**

|         |                     |
|---------|---------------------|
| Species | : Rabbit            |
| Result  | : No eye irritation |

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**Residues (petroleum), catalytic reformer fractionator, sulfonated, polymers with formaldehyde, sodium salts:**

|        |                                   |
|--------|-----------------------------------|
| Result | : Risk of serious damage to eyes. |
| Method | : in vitro eye irritation test    |

**metalaxyl-M:**

|         |                                   |
|---------|-----------------------------------|
| Species | : Rabbit                          |
| Result  | : Risk of serious damage to eyes. |

**Triethylamine:**

|        |                                   |
|--------|-----------------------------------|
| Result | : Risk of serious damage to eyes. |
|--------|-----------------------------------|

**Respiratory or skin sensitization****Product:**

|           |                                                      |
|-----------|------------------------------------------------------|
| Test Type | : Local lymph node assay (LLNA)                      |
| Species   | : Mouse                                              |
| Result    | : Did not cause sensitization on laboratory animals. |
| Remarks   | : Based on data from similar materials               |

**Components:****Azoxystrobin:**

|         |                                                      |
|---------|------------------------------------------------------|
| Species | : Guinea pig                                         |
| Result  | : Did not cause sensitization on laboratory animals. |

**pydiflumetofen:**

|           |                                                      |
|-----------|------------------------------------------------------|
| Test Type | : mouse lymphoma cells                               |
| Species   | : Mouse                                              |
| Result    | : Did not cause sensitization on laboratory animals. |

**fludioxonil:**

|         |                                                      |
|---------|------------------------------------------------------|
| Species | : Guinea pig                                         |
| Result  | : Did not cause sensitization on laboratory animals. |

**sedaxane:**

|           |                                 |
|-----------|---------------------------------|
| Test Type | : Local lymph node assay (LLNA) |
| Species   | : Mouse                         |
| Result    | : Not a skin sensitizer.        |

**metalaxyl-M:**

|         |                                                      |
|---------|------------------------------------------------------|
| Species | : Guinea pig                                         |
| Result  | : Did not cause sensitization on laboratory animals. |

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**Germ cell mutagenicity****Components:****Azoxystrobin:**

Germ cell mutagenicity - Assessment : Animal testing did not show any mutagenic effects.

**pydiflumetofen:**

Germ cell mutagenicity - Assessment : Animal testing did not show any mutagenic effects.

**fludioxonil:**

Germ cell mutagenicity - Assessment : Animal testing did not show any mutagenic effects.

**sedaxane:**

Germ cell mutagenicity - Assessment : Animal testing did not show any mutagenic effects.

**metalaxyl-M:**

Germ cell mutagenicity - Assessment : Animal testing did not show any mutagenic effects.

**Triethylamine:**

Germ cell mutagenicity - Assessment : In vitro tests did not show mutagenic effects

**Carcinogenicity****Components:****Azoxystrobin:**

Carcinogenicity - Assessment : No evidence of carcinogenicity in animal studies.

**pydiflumetofen:**

Carcinogenicity - Assessment : Weight of evidence does not support classification as a carcinogen

**fludioxonil:**

Carcinogenicity - Assessment : No evidence of carcinogenicity in animal studies.

**sedaxane:**

Carcinogenicity - Assessment : Weight of evidence does not support classification as a carcinogen. At extremely high doses, numerically higher incidences of uterine, thyroid and liver tumors (male and/or female rats) and liver tumors (male mice) were within the range of normal background variation and thus considered unrelated to treatment. Some Regulatory Authorities have taken a more conservative position that these high-dose findings are treatment-related in rats and mice. The dose levels where these findings occur are not relevant to human exposure levels.

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**titanium dioxide:**

Carcinogenicity - Assessment

: Weight of evidence does not support classification as a carcinogen

Based on the results of chronic inhalation studies (with positive results only in a single species - rat), IARC has concluded that: "There is inadequate evidence in humans for the carcinogenicity of titanium dioxide. " but that: "There is sufficient evidence in experimental animals for carcinogenicity of titanium dioxide". IARC's overall evaluation was that "titanium dioxide is possibly carcinogenic to humans (Group 2B)."

Our supplier has examined all of the available animal carcinogenicity and mechanistic data together with workplace epidemiology data for titanium dioxide and concludes that the weight of scientific evidence indicates that there is no causative link between titanium dioxide exposure and cancer risk in humans and that workplace exposures in compliance with applicable exposure standards will not result in lung cancer or chronic respiratory diseases in humans.

**metalaxyl-M:**

Carcinogenicity - Assessment

: No evidence of carcinogenicity in animal studies.

**Reproductive toxicity****Components:****Azoxystrobin:**

Reproductive toxicity - Assessment

: No toxicity to reproduction

**pydiflumetofen:**

Reproductive toxicity - Assessment

: No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

**fludioxonil:**

Reproductive toxicity - Assessment

: No toxicity to reproduction

**sedaxane:**

Reproductive toxicity - Assessment

: No toxicity to reproduction

**metalaxyl-M:**

Reproductive toxicity - Assessment

: No toxicity to reproduction

**Triethylamine:**

Reproductive toxicity - Assessment

: No toxicity to reproduction

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**STOT-single exposure****Components:****Triethylamine:**

Assessment : The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

**STOT-repeated exposure****Components:****Azoxystrobin:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

**sedaxane:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

**metalaxyl-M:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

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**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Components:****Azoxystrobin:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.47 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.28 mg/l  
Exposure time: 48 h

EC50 (Americamysis): 0.055 mg/l  
Exposure time: 96 h

Toxicity to algae/aquatic plants : ErC50 (Raphidocelis subcapitata (freshwater green alga)): 2 mg/l  
Exposure time: 96 h

NOEC (Raphidocelis subcapitata (freshwater green alga)): 0.038 mg/l  
End point: Growth rate  
Exposure time: 96 h

ErC50 (Navicula pelliculosa (Freshwater diatom)): 0.301 mg/l

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Exposure time: 96 h

NOEC (*Navicula pelliculosa* (Freshwater diatom)): 0.02 mg/l

End point: Growth rate

Exposure time: 96 h

M-Factor (Acute aquatic toxicity) : 10

Toxicity to fish (Chronic toxicity) : NOEC (*Oncorhynchus mykiss* (rainbow trout)): 0.16 mg/l  
Exposure time: 28 d

NOEC (*Pimephales promelas* (fathead minnow)): 0.147 mg/l

Exposure time: 33 d

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (*Daphnia magna* (Water flea)): 0.044 mg/l  
Exposure time: 21 d

NOEC (*Americamysis*): 0.0095 mg/l

Exposure time: 28 d

M-Factor (Chronic aquatic toxicity) : 10

Toxicity to microorganisms : IC50 (*Pseudomonas putida*): > 3.2 mg/l  
Exposure time: 6 h

**pydiflumetofen:**

Toxicity to fish : LC50 (*Oncorhynchus mykiss* (rainbow trout)): 0.18 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 0.42 mg/l  
Exposure time: 48 h

LC50 (*Americamysis*): 0.16 mg/l

Exposure time: 96 h

Toxicity to algae/aquatic plants : ErC50 (*Raphidocelis subcapitata* (freshwater green alga)): > 5.9 mg/l  
Exposure time: 96 h

NOEC (*Raphidocelis subcapitata* (freshwater green alga)): 0.093 mg/l

End point: Growth rate

Exposure time: 96 h

M-Factor (Acute aquatic toxicity) : 1

Toxicity to fish (Chronic toxicity) : NOEC (*Pimephales promelas* (fathead minnow)): 0.025 mg/l  
Exposure time: 32 d

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (*Daphnia magna* (Water flea)): 0.042 mg/l  
Exposure time: 21 d

NOEC (*Americamysis*): 0.076 mg/l

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|                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                        | Exposure time: 28 d                                                                                                                                                                                                                                                                                                                                                                                                            |
| M-Factor (Chronic aquatic toxicity)                                    | : 1                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>fludioxonil:</b>                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Toxicity to fish                                                       | : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.23 mg/l<br>Exposure time: 96 h<br><br>LC50 (Pimephales promelas (fathead minnow)): 0.7 mg/l<br>Exposure time: 96 h                                                                                                                                                                                                                                                             |
| Toxicity to daphnia and other aquatic invertebrates                    | : EC50 (Daphnia magna (Water flea)): 0.4 mg/l<br>Exposure time: 48 h<br><br>EC50 (Americamysis): 0.27 mg/l<br>Exposure time: 96 h                                                                                                                                                                                                                                                                                              |
| Toxicity to algae/aquatic plants                                       | : ErC50 (Raphidocelis subcapitata (freshwater green alga)): 0.259 mg/l<br>Exposure time: 96 h<br><br>EC10 (Raphidocelis subcapitata (freshwater green alga)): 0.077 mg/l<br>End point: Growth rate<br>Exposure time: 96 h<br><br>ErC50 (Skeletonema costatum (marine diatom)): 0.43 mg/l<br>Exposure time: 96 h<br><br>NOEC (Skeletonema costatum (marine diatom)): 0.14 mg/l<br>End point: Growth rate<br>Exposure time: 96 h |
| Toxicity to fish (Chronic toxicity)                                    | : NOEC (Oncorhynchus mykiss (rainbow trout)): 0.04 mg/l<br>Exposure time: 28 d<br><br>NOEC (Pimephales promelas (fathead minnow)): 0.018 mg/l<br>Exposure time: 116 d                                                                                                                                                                                                                                                          |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : NOEC (Daphnia magna (Water flea)): 0.035 mg/l<br>Exposure time: 21 d<br><br>NOEC (Americamysis): 0.018 mg/l<br>Exposure time: 28 d                                                                                                                                                                                                                                                                                           |
| Toxicity to microorganisms                                             | : EC50 (activated sludge): > 1,000 mg/l<br>Exposure time: 3 h                                                                                                                                                                                                                                                                                                                                                                  |
| <b>sedaxane:</b>                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Toxicity to fish                                                       | : LC50 (Cyprinus carpio (Carp)): 0.62 mg/l<br>Exposure time: 96 h                                                                                                                                                                                                                                                                                                                                                              |

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|                                                                        |   |                                                                                                                             |
|------------------------------------------------------------------------|---|-----------------------------------------------------------------------------------------------------------------------------|
|                                                                        |   | LC50 ( <i>Pimephales promelas</i> (fathead minnow)): 0.98 mg/l<br>Exposure time: 96 h                                       |
| Toxicity to daphnia and other aquatic invertebrates                    | : | EC50 ( <i>Daphnia magna</i> (Water flea)): 6.10 mg/l<br>Exposure time: 48 h                                                 |
| Toxicity to algae/aquatic plants                                       | : | ErC50 ( <i>Raphidocelis subcapitata</i> (freshwater green alga)): 3 mg/l<br>Exposure time: 96 h                             |
|                                                                        |   | NOEC ( <i>Raphidocelis subcapitata</i> (freshwater green alga)): 1 mg/l<br>End point: Growth rate<br>Exposure time: 96 h    |
|                                                                        |   | ErC50 ( <i>Lemna gibba</i> (gibbous duckweed)): 6.5 mg/l<br>Exposure time: 7 d                                              |
|                                                                        |   | NOEC ( <i>Lemna gibba</i> (gibbous duckweed)): 0.59 mg/l<br>End point: Growth rate<br>Exposure time: 7 d                    |
| M-Factor (Acute aquatic toxicity)                                      | : | 1                                                                                                                           |
| Toxicity to fish (Chronic toxicity)                                    | : | NOEC ( <i>Pimephales promelas</i> (fathead minnow)): 0.165 mg/l<br>Exposure time: 33 d                                      |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : | NOEC ( <i>Daphnia magna</i> (Water flea)): 0.82 mg/l<br>Exposure time: 21 d                                                 |
| <b>metalaxyl-M:</b>                                                    |   |                                                                                                                             |
| Toxicity to fish                                                       | : | LC50 ( <i>Oncorhynchus mykiss</i> (rainbow trout)): > 100 mg/l<br>Exposure time: 96 h                                       |
|                                                                        |   | LC50 ( <i>Cyprinus carpio</i> (Carp)): > 100 mg/l<br>Exposure time: 96 h                                                    |
| Toxicity to daphnia and other aquatic invertebrates                    | : | EC50 ( <i>Daphnia magna</i> (Water flea)): > 100 mg/l<br>Exposure time: 48 h                                                |
| Toxicity to algae/aquatic plants                                       | : | ErC50 ( <i>Raphidocelis subcapitata</i> (freshwater green alga)): 271 mg/l<br>Exposure time: 96 h                           |
|                                                                        |   | NOEC ( <i>Raphidocelis subcapitata</i> (freshwater green alga)): 19.7 mg/l<br>End point: Growth rate<br>Exposure time: 96 h |
| Toxicity to fish (Chronic toxicity)                                    | : | NOEC ( <i>Oncorhynchus mykiss</i> (rainbow trout)): 50 mg/l<br>Exposure time: 28 d                                          |
| Toxicity to daphnia and other                                          | : | NOEC ( <i>Daphnia magna</i> (Water flea)): 25 mg/l                                                                          |

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|                                          |                                                             |
|------------------------------------------|-------------------------------------------------------------|
| aquatic invertebrates (Chronic toxicity) | Exposure time: 21 d                                         |
| Toxicity to microorganisms               | : EC50 (activated sludge): > 100 mg/l<br>Exposure time: 3 h |

**Triethylamine:**

|                                  |                                                                                             |
|----------------------------------|---------------------------------------------------------------------------------------------|
| Toxicity to fish                 | : LC50 (Oncorhynchus mykiss (rainbow trout)): 36 mg/l<br>Exposure time: 96 h                |
| Toxicity to algae/aquatic plants | : ErC50 (Raphidocelis subcapitata (freshwater green alga)): 9.8 mg/l<br>Exposure time: 72 h |

**Persistence and degradability****Components:****Azoxystrobin:**

|                    |                                                                              |
|--------------------|------------------------------------------------------------------------------|
| Biodegradability   | : Result: Not readily biodegradable.                                         |
| Stability in water | : Degradation half life: 214 d<br>Remarks: The substance is stable in water. |

**pydiflumetofen:**

|                    |                                              |
|--------------------|----------------------------------------------|
| Biodegradability   | : Result: Not readily biodegradable.         |
| Stability in water | : Remarks: The substance is stable in water. |

**fludioxonil:**

|                    |                                                                       |
|--------------------|-----------------------------------------------------------------------|
| Biodegradability   | : Result: Not readily biodegradable.                                  |
| Stability in water | : Degradation half life: 450 - 700 d<br>Remarks: Persistent in water. |

**sedaxane:**

|                    |                                                                 |
|--------------------|-----------------------------------------------------------------|
| Biodegradability   | : Result: Not readily biodegradable.                            |
| Stability in water | : Degradation half life: > 1 y<br>Remarks: Persistent in water. |

**Residues (petroleum), catalytic reformer fractionator, sulfonated, polymers with formaldehyde, sodium salts:**

|                  |                                      |
|------------------|--------------------------------------|
| Biodegradability | : Result: Not readily biodegradable. |
|------------------|--------------------------------------|

**metalaxyl-M:**

|                    |                                                                               |
|--------------------|-------------------------------------------------------------------------------|
| Biodegradability   | : Result: Not readily biodegradable.                                          |
| Stability in water | : Degradation half life: 22.4 - 47.5 d<br>Remarks: Product is not persistent. |

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**Triethylamine:**

Biodegradability : Result: Readily biodegradable.

**Bioaccumulative potential****Components:****Azoxystrobin:**

Bioaccumulation : Remarks: Does not bioaccumulate.

**pydiflumetofen:**

Bioaccumulation : Remarks: Does not bioaccumulate.

Partition coefficient: n-  
octanol/water

: log Pow: 3.8 (77 °F / 25 °C)

**fludioxonil:**

Bioaccumulation : Remarks: Does not bioaccumulate.

Partition coefficient: n-  
octanol/water

: log Pow: 4.12 (77 °F / 25 °C)

**sedaxane:**

Bioaccumulation : Remarks: Does not bioaccumulate.

Partition coefficient: n-  
octanol/water

: log Pow: 3.3 (77 °F / 25 °C)

**metalaxyl-M:**

Bioaccumulation : Remarks: Low bioaccumulation potential.

Partition coefficient: n-  
octanol/water

: log Pow: 1.71 (77 °F / 25 °C)

**Mobility in soil****Components:****Azoxystrobin:**Distribution among environ-  
mental compartments : Remarks: Azoxystrobin has low to very high mobility in soil.

Stability in soil

: Dissipation time: 80 d  
Percentage dissipation: 50 % (DT50)  
Remarks: Product is not persistent.**pydiflumetofen:**Distribution among environ-  
mental compartments : Remarks: Low mobility in soil.

Stability in soil

: Dissipation time: 674 d  
Percentage dissipation: 50 % (DT50)  
Remarks: Persistent in soil.**fludioxonil:**

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Distribution among environmental compartments : Remarks: immobile  
Stability in soil : Dissipation time: 14 d  
Percentage dissipation: 50 % (DT50)  
Remarks: Product is not persistent.

**sedaxane:**

Distribution among environmental compartments : Remarks: Low to medium mobility in soil.  
Stability in soil : Dissipation time: 83 d  
Percentage dissipation: 50 % (DT50)  
Remarks: Product is not persistent.

**metalaxyl-M:**

Distribution among environmental compartments : Remarks: Metalaxyl has a range from low to very high mobility in soil depending on soil type.  
Stability in soil : Dissipation time: < 50 d  
Percentage dissipation: 50 % (DT50)  
Remarks: Product is not persistent.

**Other adverse effects****Components:****Azoxystrobin:**

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).

**pydiflumetofen:**

Results of PBT and vPvB assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**fludioxonil:**

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).

**sedaxane:**

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).

**metalaxyl-M:**

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).

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**Triethylamine:**

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).

**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

Waste from residues : Do not contaminate ponds, waterways or ditches with chemical or used container.  
Do not dispose of waste into sewer.  
Where possible recycling is preferred to disposal or incineration.  
If recycling is not practicable, dispose of in compliance with local regulations.

Contaminated packaging : Empty remaining contents.  
Triple rinse containers.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.  
Do not re-use empty containers.

**SECTION 14. TRANSPORT INFORMATION****International Regulations****UNRTDG**

UN number : UN 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(AZOXYSTROBIN AND PYDIFLUMETOFEN)  
Class : 9  
Packing group : III  
Labels : 9

**IATA-DGR**

UN/ID No. : UN 3082  
Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.  
(AZOXYSTROBIN AND PYDIFLUMETOFEN)  
Class : 9  
Packing group : III  
Labels : Miscellaneous  
Packing instruction (cargo aircraft) : 964  
Packing instruction (passenger aircraft) : 964  
Environmentally hazardous : yes

**IMDG-Code**

UN number : UN 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(AZOXYSTROBIN AND PYDIFLUMETOFEN)  
Class : 9

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

**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**

Not regulated as a dangerous good

Remarks : Shipment by ground under DOT is non-regulated; however it may be shipped per the applicable hazard classification to facilitate multi-modal transport involving ICAO (IATA) or IMO.

**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**

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 swallowed.

Harmful if absorbed through skin.

Avoid contact with skin, eyes or clothing.

Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

Remove and wash contaminated clothing before re-use.

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

**SARA 302 Extremely Hazardous Substances Threshold Planning Quantity**

This material does not contain any components with a section 302 EHS TPQ.

**SARA 311/312 Hazards** : Acute toxicity (any route of exposure)

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

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

**TSCA** : On or in compliance with the active portion of the TSCA inventory

**TSCA list**

No substances are subject to a Significant New Use Rule.

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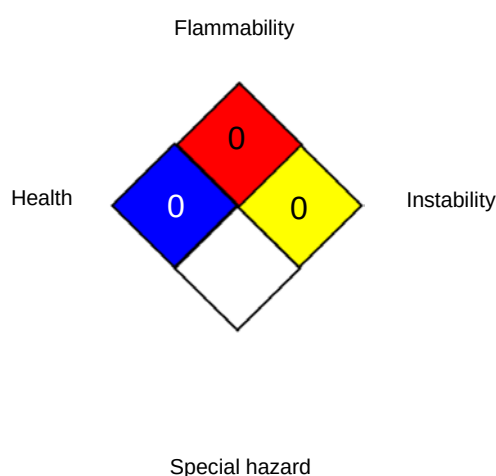
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No substances are subject to TSCA 12(b) export notification requirements.

### SECTION 16. OTHER INFORMATION

#### Further information

##### NFPA 704:



##### HMIS® IV:

|                 |   |   |
|-----------------|---|---|
| HEALTH          | / | 1 |
| FLAMMABILITY    |   | 0 |
| PHYSICAL HAZARD |   | 0 |

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

#### Full text of other abbreviations

|                 |   |                                                                                           |
|-----------------|---|-------------------------------------------------------------------------------------------|
| ACGIH           | : | USA. ACGIH Threshold Limit Values (TLV)                                                   |
| NIOSH REL       | : | USA. NIOSH Recommended Exposure Limits                                                    |
| OSHA P0         | : | USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)                        |
| OSHA Z-1        | : | USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants          |
| OSHA Z-3        | : | USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts                        |
| US WEEL         | : | USA. Workplace Environmental Exposure Levels (WEEL)                                       |
| ACGIH / TWA     | : | 8-hour, time-weighted average                                                             |
| ACGIH / STEL    | : | Short-term exposure limit                                                                 |
| NIOSH REL / TWA | : | Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek |
| OSHA P0 / TWA   | : | 8-hour time weighted average                                                              |
| OSHA P0 / STEL  | : | Short-term exposure limit                                                                 |
| OSHA Z-1 / TWA  | : | 8-hour time weighted average                                                              |
| OSHA Z-3 / TWA  | : | 8-hour time weighted average                                                              |
| 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 Haz-

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ardous Substance; 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; 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; TECL - 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

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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.

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