

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## EQUENTO 400FS

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 08/12/2025  |
| 1.2     | 11/19/2025     | S00077856458 | Date of first issue: 12/05/2024 |

### SECTION 1. IDENTIFICATION

Product name : EQUENTO 400FS  
Design code : A22725F

Product Registration number : 100-1708

#### 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)

Telephone : 1 800 334 9481  
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 : Insecticide

Restrictions on use : General Use Pesticide

### SECTION 2. HAZARDS IDENTIFICATION

#### GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin sensitization : Category 1

Reproductive toxicity : Category 2

#### Other hazards

None known.

#### GHS label elements

Hazard pictograms :



Signal Word : Warning

Hazard Statements : H317 May cause an allergic skin reaction.  
H361f Suspected of damaging fertility.

Precautionary Statements : **Prevention:**  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read

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and understood.

P261 Avoid breathing mist or vapors.

P272 Contaminated work clothing must not be allowed out of the workplace.

P280 Wear protective gloves, protective clothing, eye protection and face protection.

### Response:

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

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

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

P362 + P364 Take off contaminated clothing and wash it before reuse.

### Storage:

P405 Store locked up.

### Disposal:

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

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

### Components

| Chemical name                                                                                 | CAS No./Unique ID | Concentration (% w/w) | Trade secret |
|-----------------------------------------------------------------------------------------------|-------------------|-----------------------|--------------|
| isocycloseram                                                                                 | 2061933-85-3*     | 34.7739               | -            |
| propane-1,2-diol                                                                              | 57-55-6*          | >= 10 - <= 30         | TSC          |
| reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | 55965-84-9*       | <= 0.1                | TSC          |

\* Indicates that the identifier is a CAS No.

TSC- the actual concentration or concentration range 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.<br>If breathing is irregular or stopped, administer artificial respiration.<br>Keep patient warm and at rest.<br>Call a physician or poison control center immediately. |
| In case of skin contact | : Take off all contaminated clothing immediately.<br>Wash off immediately with plenty of water.                                                                                                           |

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|                                                             |   |                                                                                                                                                                                                                   |
|-------------------------------------------------------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| In case of eye contact                                      | : | If skin irritation persists, call a physician.<br>Wash contaminated clothing before re-use.<br>Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.<br>Remove contact lenses. |
| If swallowed                                                | : | Immediate medical attention is required.<br>If swallowed, seek medical advice immediately and show this container or label.<br>Do NOT induce vomiting.                                                            |
| Most important symptoms and effects, both acute and delayed | : | Nonspecific<br>No symptoms known or expected.<br>May cause an allergic skin reaction.<br>Suspected of damaging fertility.                                                                                         |
| Notes to physician                                          | : | There is no specific antidote available.<br>Treat symptomatically.                                                                                                                                                |

### SECTION 5. FIRE-FIGHTING MEASURES

|                                                |   |                                                                                                                                                                                                                             |
|------------------------------------------------|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suitable extinguishing media                   | : | Extinguishing media - small fires<br>Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.<br>Extinguishing media - large fires<br>Alcohol-resistant foam<br>or<br>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).<br>Exposure to decomposition products may be a hazard to health. |
| Hazardous combustion products                  | : | Carbon oxides<br>Nitrogen oxides (NOx)<br>Chlorine compounds<br>Fluorine compounds                                                                                                                                          |
| Further information                            | : | Do not allow run-off from fire fighting to enter drains or water courses.<br>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.<br>Do not flush into surface water or sanitary sewer system. |

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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.

### 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    |
|------------------|--------------|----------------------------------|------------------------------------------------|----------|
| isocycloseram    | 2061933-85-3 | TWA                              | 0.4 mg/m <sup>3</sup>                          | Syngenta |
| propane-1,2-diol | 57-55-6      | TWA                              | 10 mg/m <sup>3</sup>                           | US WEEL  |

**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.

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.

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- Respiratory protection : Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.
- Hand protection
- Remarks : Wear protective gloves. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. The break through time depends amongst other things from the material, the thickness and the type of glove and therefore has to be measured for each case. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
- Eye protection : No special protective equipment required.
- Skin and body protection : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.  
Remove and wash contaminated clothing before re-use.  
Wear as appropriate:  
Impervious clothing
- 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 : white
- Odor : aromatic
- Odor Threshold : No data available
- pH : 7.2  
Concentration: 1 %w/v
- Melting point/freezing point : No data available
- Initial boiling point and boiling range : No data available

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|                                                     |   |                                                          |
|-----------------------------------------------------|---|----------------------------------------------------------|
| Flash point                                         | : | Method: Seta closed cup<br>does not flash                |
| Evaporation rate                                    | : | No data available                                        |
| Flammability (solid, gas)                           | : | Not classified as a flammability hazard                  |
| Upper explosion limit / Upper<br>flammability limit | : | No data available                                        |
| Lower explosion limit / Lower<br>flammability limit | : | No data available                                        |
| Vapor pressure                                      | : | No data available                                        |
| Relative vapor density                              | : | No data available                                        |
| Density                                             | : | 1.158 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-<br>octanol/water          | : | No data available                                        |
| Autoignition temperature                            | : | 765 °F / 407 °C                                          |
| Decomposition temperature                           | : | No data available                                        |
| Viscosity                                           | : |                                                          |
| Viscosity, dynamic                                  | : | 430 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 characteristics                            | : |                                                          |
| Particle size                                       | : | No data available                                        |

## SECTION 10. STABILITY AND REACTIVITY

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

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### SECTION 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Ingestion  
Inhalation  
Skin contact  
Eye contact

#### Acute toxicity

Based on available data, the classification criteria are not met.

#### Product:

|                           |                                                                                                                                                                                                                                                                                  |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Acute oral toxicity       | : LD50 (Rat, female): > 5,000 mg/kg                                                                                                                                                                                                                                              |
| Acute inhalation toxicity | : LC50 (Rat, male and female): > 5.15 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist<br>Assessment: The component/mixture is minimally toxic after short term inhalation., The substance/mixture is not toxic on inhalation as defined by dangerous goods regulations. |
| Acute dermal toxicity     | : LD50 (Rat): > 5,000 mg/kg estimated                                                                                                                                                                                                                                            |

#### Components:

##### **isocycloseram:**

|                           |                                                                                                                                                                                                                      |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Acute oral toxicity       | : LD50 (Rat, female): 4,569 mg/kg                                                                                                                                                                                    |
| Acute inhalation toxicity | : LC50 (Rat, male and female): > 4.62 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist<br>Assessment: The substance or mixture has no acute inhalation toxicity<br>Remarks: Highest attainable concentration |
| Acute dermal toxicity     | : LD50 (Rat, male and female): > 5,000 mg/kg<br>Assessment: The substance or mixture has no acute dermal toxicity                                                                                                    |

##### **propane-1,2-diol:**

|                           |                                                                                                     |
|---------------------------|-----------------------------------------------------------------------------------------------------|
| Acute oral toxicity       | : LD50 (Rat): > 20,000 mg/kg<br><br>Assessment: The substance or mixture has no acute oral toxicity |
| Acute inhalation toxicity | : LC50 (Rabbit): 317,042 mg/l<br>Exposure time: 2 h<br>Test atmosphere: dust/mist                   |
| Acute dermal toxicity     | : LD50 (Rabbit): > 2,000 mg/kg<br>Assessment: The substance or mixture has no acute dermal toxicity |

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### reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):

Acute oral toxicity : LD50 (Rat): 64 mg/kg

Acute inhalation toxicity : LC50 (Rat, male and female): 0.171 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

Assessment: Corrosive to the respiratory tract.

Acute dermal toxicity : LD50 (Rabbit): 92.4 mg/kg

### Skin corrosion/irritation

Based on available data, the classification criteria are not met.

#### Product:

Species : Rabbit  
Result : No skin irritation

#### Components:

##### isocycloseram:

Species : Rabbit  
Result : No skin irritation

##### propane-1,2-diol:

Result : No skin irritation

### reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):

Species : Rabbit  
Result : Corrosive after 1 to 4 hours of exposure

### Serious eye damage/eye irritation

Based on available data, the classification criteria are not met.

#### Product:

Species : Rabbit  
Result : No eye irritation

#### Components:

##### isocycloseram:

Species : Rabbit  
Result : No eye irritation

##### propane-1,2-diol:

Result : No eye irritation

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### reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):

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

### Respiratory or skin sensitization

#### Skin sensitization

May cause an allergic skin reaction.

#### Respiratory sensitization

Not classified due to lack of data.

#### Product:

|           |   |                                          |
|-----------|---|------------------------------------------|
| Test Type | : | Local lymph node assay (LLNA)            |
| Species   | : | Mouse                                    |
| Result    | : | Does not cause skin sensitization.       |
| Result    | : | May cause sensitization by skin contact. |
| Remarks   | : | Experience with human exposure           |

#### Components:

##### isocycloseram:

|           |   |                                                    |
|-----------|---|----------------------------------------------------|
| Test Type | : | mouse lymphoma cells                               |
| Species   | : | Mouse                                              |
| Result    | : | The product is a skin sensitizer, sub-category 1B. |

##### propane-1,2-diol:

|        |   |                                    |
|--------|---|------------------------------------|
| Result | : | Does not cause skin sensitization. |
|--------|---|------------------------------------|

### reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):

|         |   |                                                    |
|---------|---|----------------------------------------------------|
| Species | : | Guinea pig                                         |
| Result  | : | The product is a skin sensitizer, sub-category 1A. |

### Germ cell mutagenicity

Not classified due to lack of data.

#### Components:

##### isocycloseram:

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

##### propane-1,2-diol:

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

### reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):

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

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### Carcinogenicity

Not classified due to lack of data.

### Components:

#### isocycloseram:

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

#### propane-1,2-diol:

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

#### reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):

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

**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.

### Reproductive toxicity

Suspected of damaging fertility.

### Components:

#### isocycloseram:

Reproductive toxicity - Assessment : Some evidence of adverse effects on sexual function and fertility, based on animal experiments.

Adverse effects seen in rat studies were not observed in any other species tested. No functional effects on reproduction and no delays in sexual maturation and development were observed in a multi-generation study.

#### propane-1,2-diol:

Reproductive toxicity - Assessment : No toxicity to reproduction, No effects on or via lactation

#### reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):

Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity, No effects on or via lactation

### STOT-single exposure

Not classified due to lack of data.

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### Components:

#### propane-1,2-diol:

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

#### reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):

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

#### STOT-repeated exposure

Not classified due to lack of data.

### Components:

#### isocycloseram:

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

#### propane-1,2-diol:

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

#### reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):

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

#### Aspiration toxicity

Not classified due to lack of data.

### Components:

#### propane-1,2-diol:

No aspiration toxicity classification

#### reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):

No aspiration toxicity classification

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

### Components:

#### isocycloseram:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.13 mg/l  
Exposure time: 96 h

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- Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 0.52 mg/l  
Exposure time: 48 h
- EC50 (*Americamysis*): 0.000031 mg/l  
Exposure time: 48 h
- EC50 (*Chironomus riparius* (Midge larvae)): 0.000015 mg/l  
Exposure time: 48 h
- Toxicity to algae/aquatic plants : ErC50 (*Skeletonema costatum* (marine diatom)): 0.27 mg/l  
Exposure time: 72 h
- EC10 (*Skeletonema costatum* (marine diatom)): 0.14 mg/l  
End point: Growth rate  
Exposure time: 72 h
- NOEC (*Skeletonema costatum* (marine diatom)): 0.044 mg/l  
End point: Growth rate  
Exposure time: 72 h
- Toxicity to fish (Chronic toxicity) : NOEC (*Cyprinodon variegatus* (sheepshead minnow)): 0.0081 mg/l  
Exposure time: 32 d  
Test Type: Early-life Stage
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (*Americamysis*): 0.000001 mg/l  
Exposure time: 28 d
- Toxicity to microorganisms : EC50 (activated sludge): > 1,000 mg/l  
Exposure time: 3 h
- propane-1,2-diol:**
- Toxicity to fish : LC50 (*Oncorhynchus mykiss* (rainbow trout)): 40,613 mg/l  
Exposure time: 96 h  
Test Type: static test
- Toxicity to daphnia and other aquatic invertebrates : (Ceriodaphnia dubia (water flea)): 18,340 mg/l  
Exposure time: 48 h  
Test Type: static test
- Toxicity to algae/aquatic plants : ErC50 (*Raphidocelis subcapitata* (freshwater green alga)): 19,000 mg/l  
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (*Ceriodaphnia dubia* (Water flea)): 13,020 mg/l  
Exposure time: 7 d  
Test Type: semi-static test
- reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):**
- Toxicity to fish : LC50 (*Oncorhynchus mykiss* (rainbow trout)): 0.22 mg/l  
Exposure time: 96 h
- Toxicity to daphnia and other : EC50 (*Daphnia*): 0.1 mg/l

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aquatic invertebrates

Exposure time: 48 h

Toxicity to algae/aquatic plants

: ErC50 (Raphidocelis subcapitata (freshwater green alga)):  
0.048 mg/l  
Exposure time: 72 h

NOEC (Raphidocelis subcapitata (freshwater green alga)):  
0.0012 mg/l

End point: Growth rate  
Exposure time: 72 h

ErC50 (Skeletonema costatum (marine diatom)): 0.0052 mg/l  
Exposure time: 48 h

NOEC (Skeletonema costatum (marine diatom)): 0.00064 mg/l  
End point: Growth rate  
Exposure time: 48 h

Toxicity to fish (Chronic toxicity)

: NOEC (Oncorhynchus mykiss (rainbow trout)): 0.098 mg/l  
Exposure time: 28 d

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

: NOEC (Daphnia): 0.004 mg/l  
Exposure time: 21 d

### Persistence and degradability

#### Components:

##### **isocycloseram:**

Biodegradability : Result: Not readily biodegradable.

Stability in water : Remarks: Product is not persistent.

##### **propane-1,2-diol:**

Biodegradability : Result: Readily biodegradable.

##### **reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):**

Biodegradability : Result: Readily biodegradable.

### Bioaccumulative potential

#### Components:

##### **isocycloseram:**

Bioaccumulation : Remarks: bioaccumulative

Partition coefficient: n-octanol/water : log Pow: 4.9 (68 °F / 20 °C)

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### Mobility in soil

#### Components:

##### isocycloseram:

|                                               |   |                                                                                                          |
|-----------------------------------------------|---|----------------------------------------------------------------------------------------------------------|
| Distribution among environmental compartments | : | Remarks: immobile                                                                                        |
| Stability in soil                             | : | Dissipation time: 112.94 d<br>Percentage dissipation: 50 % (DT50)<br>Remarks: Product is not persistent. |

### Other adverse effects

#### Components:

##### isocycloseram:

|                                    |   |                                                                |
|------------------------------------|---|----------------------------------------------------------------|
| Results of PBT and vPvB assessment | : | Substance is not persistent, bioaccumulative, and toxic (PBT). |
|------------------------------------|---|----------------------------------------------------------------|

## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

|                        |   |                                                                                                                                                                                                                                                                                                                                                                                   |
|------------------------|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Waste from residues    | : | Do not contaminate ponds, waterways or ditches with chemical or used container.<br>Do not dispose of waste into sewer.<br>Where possible recycling is preferred to disposal or incineration.<br>If recycling is not practicable, dispose of in compliance with local regulations.<br>This product will not be classified as a RCRA characteristic hazardous waste when discarded. |
| Contaminated packaging | : | Empty remaining contents.<br>Triple rinse containers.<br>Empty containers should be taken to an approved waste handling site for recycling or disposal.<br>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.<br>(ISOCYCLOSERAM, MIXTURE OF: 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE AND 2-METHYL-4-ISOTHIAZOLIN-3-ONE (3:1))                          |
| Class                     | : | 9                                                                                                                                                                                           |
| Packing group             | : | III                                                                                                                                                                                         |
| Labels                    | : | 9                                                                                                                                                                                           |
| Environmentally hazardous | : | yes                                                                                                                                                                                         |
| Remarks                   | : | This product can be subject to exemptions when packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids, or having a |

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net mass of 5 kg or less for solids.

### IATA-DGR

|                                          |   |                                                                                                                                                                                                                                  |
|------------------------------------------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| UN/ID No.                                | : | UN 3082                                                                                                                                                                                                                          |
| Proper shipping name                     | : | Environmentally hazardous substance, liquid, n.o.s.<br>(ISOCYCLOSERAM, MIXTURE OF: 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE AND 2-METHYL-4-ISOTHIAZOLIN-3-ONE (3:1))                                                               |
| Class                                    | : | 9                                                                                                                                                                                                                                |
| Packing group                            | : | III                                                                                                                                                                                                                              |
| Labels                                   | : | Miscellaneous                                                                                                                                                                                                                    |
| Packing instruction (cargo aircraft)     | : | 964                                                                                                                                                                                                                              |
| Packing instruction (passenger aircraft) | : | 964                                                                                                                                                                                                                              |
| Environmentally hazardous                | : | yes                                                                                                                                                                                                                              |
| Remarks                                  | : | This product can be subject to exemptions when packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids, or having a net mass of 5 kg or less for solids. |

### IMDG-Code

|                      |   |                                                                                                                                                                                                                                  |
|----------------------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| UN number            | : | UN 3082                                                                                                                                                                                                                          |
| Proper shipping name | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br>(ISOCYCLOSERAM, MIXTURE OF: 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE AND 2-METHYL-4-ISOTHIAZOLIN-3-ONE (3:1))                                                               |
| Class                | : | 9                                                                                                                                                                                                                                |
| Packing group        | : | III                                                                                                                                                                                                                              |
| Labels               | : | 9                                                                                                                                                                                                                                |
| EmS Code             | : | F-A, S-F                                                                                                                                                                                                                         |
| Marine pollutant     | : | yes                                                                                                                                                                                                                              |
| Remarks              | : | This product can be subject to exemptions when packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids, or having a net mass of 5 kg or less for solids. |

### Transport in bulk according to IMO instruments

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.

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11/19/2025

SDS Number:  
S00077856458

Date of last issue: 08/12/2025  
Date of first issue: 12/05/2024

### 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:

Remove and wash contaminated clothing before re-use.

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

#### CERCLA Reportable Quantity

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

#### 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.

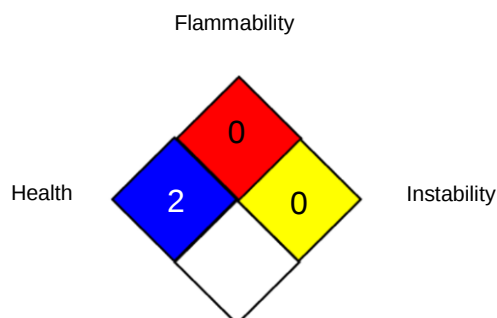
**SARA 311/312 Hazards** : Respiratory or skin sensitization  
Reproductive toxicity

**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.

### SECTION 16. OTHER INFORMATION

#### Further information

##### NFPA 704:



##### HMIS® IV:

|                 |   |   |
|-----------------|---|---|
| HEALTH          | * | 2 |
| 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

Syngenta : Syngenta Occupational Exposure Limits

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US WEEL : USA. Workplace Environmental Exposure Levels (WEEL)  
Syngenta / TWA : 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 Hazardous 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; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Revision Date : 11/19/2025

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.

US / EN