

# SAFETY DATA SHEET



## Closer® SC

Version 1.0      Revision Date: 04/13/2022      SDS Number: 800080000003      Date of last issue: -  
Date of first issue: 04/13/2022

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

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### SECTION 1. IDENTIFICATION

Product name : Closer® SC

#### Manufacturer or supplier's details

#### COMPANY IDENTIFICATION

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

Customer Information Number : 800-992-5994

E-mail address : customerinformation@corteva.com

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

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

Recommended use : End use insecticide product

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### SECTION 2. HAZARDS IDENTIFICATION

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

Not a hazardous substance or mixture.

#### GHS label elements

Not a hazardous substance or mixture.

#### Other hazards

None known.

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### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
sulfoxaflor (ISO)	946578-00-3	21.8

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Propylene glycol	57-55-6	$\geq 3 - < 10$
Unknown(s) - Sulfonated aromatic polymer, sodium salt for 300000000578, 300000000299	Not Assigned	$\geq 1 - < 3$
Balance	Not Assigned	$> 60$

Actual concentration is withheld as a trade secret

### SECTION 4. FIRST AID MEASURES

- If inhaled : Move person to fresh air. If person is not breathing, call an emergency responder or ambulance, then give artificial respiration; if by mouth to mouth use rescuer protection (pocket mask etc). Call a poison control center or doctor for treatment advice.
- In case of skin contact : Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
- In case of eye contact : Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Call a poison control center or doctor for treatment advice.  
Suitable emergency eye wash facility should be available in work area.
- If swallowed : No emergency medical treatment necessary.
- Most important symptoms and effects, both acute and delayed : None known.
- Protection of first-aiders : If potential for exposure exists refer to Section 8 for specific personal protective equipment.
- Notes to physician : No specific antidote.  
Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.  
Have the Safety Data Sheet, and if available, the product container or label with you when calling a poison control center or doctor, or going for treatment.

### SECTION 5. FIRE-FIGHTING MEASURES

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

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- Specific extinguishing methods : Remove undamaged containers from fire area if it is safe to do so.  
Evacuate area.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Use water spray to cool unopened containers.
- Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Special protective equipment for fire-fighters : Wear self-contained breathing apparatus for firefighting if necessary.  
Use personal protective equipment.

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**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions, protective equipment and emergency procedures : Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.
- Environmental precautions : If the product contaminates rivers and lakes or drains inform respective authorities.  
Discharge into the environment must be avoided.  
Prevent further leakage or spillage if safe to do so.  
Prevent spreading over a wide area (e.g., by containment or oil barriers).  
Retain and dispose of contaminated wash water.  
Local authorities should be advised if significant spillages cannot be contained.  
Prevent from entering into soil, ditches, sewers, underwater.  
See Section 12, Ecological Information.
- Methods and materials for containment and cleaning up : Clean up remaining materials from spill with suitable absorbent.  
Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in.  
For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped,  
Recovered material should be stored in a vented container.  
The vent must prevent the ingress of water as further reaction with spilled materials can take place which could lead to over-pressurization of the container.  
Keep in suitable, closed containers for disposal.  
Wipe up with absorbent material (e.g. cloth, fleece).  
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
See Section 13, Disposal Considerations, for additional information.

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### SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Do not breathe vapors/dust.  
Handle in accordance with good industrial hygiene and safety practice.  
Smoking, eating and drinking should be prohibited in the application area.  
Take care to prevent spills, waste and minimize release to the environment.  
Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.
- Conditions for safe storage : Store in a closed container.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Keep in properly labeled containers.  
Store in accordance with the particular national regulations.
- Materials to avoid : Do not store near acids.  
Strong oxidizing agents
- Packaging material : Unsuitable material: None known.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
sulfoxaflor (ISO)	946578-00-3	TWA (Inhalable particulate matter)	0.1 mg/m3	ACGIH
Propylene glycol	57-55-6	TWA	10 mg/m3	US WEEL

- Engineering measures** : Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations.

#### Personal protective equipment

- Respiratory protection : Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. For most conditions no respiratory protection should be needed; however, if discomfort is experienced, use an approved air-purifying respirator.
- Hand protection
- Remarks : Chemical protective gloves should not be needed when handling this material. Consistent with general hygienic practice for any material, skin contact should be minimized.
- Eye protection : Use safety glasses (with side shields).

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Skin and body protection : No precautions other than clean body-covering clothing should be needed.

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### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Liquid.

Color : Tan

Odor : Mild

Odor Threshold : No data available

pH : 4.67 (75.0 °F / 23.9 °C)  
Concentration: 1 %  
Method: pH Electrode

Melting point/range : Not applicable

Freezing point : No data available

Boiling point/boiling range : No data available

Flash point : > 212 °F / > 100 °C  
Method: closed cup

Evaporation rate : No data available

Flammability (solid, gas) : Not applicable to liquids

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Vapor pressure : No data available

Relative vapor density : No data available

Density : 1.1066 g/cm<sup>3</sup> (68 °F / 20 °C)  
Method: Digital density meter

Solubility(ies)  
Water solubility : No data available

Autoignition temperature : 662 °F / 350 °C  
Method: EC Method A15

Viscosity  
Viscosity, dynamic : No data available

Explosive properties : No

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Oxidizing properties : No significant increase (>5C) in temperature.

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**SECTION 10. STABILITY AND REACTIVITY**

Reactivity : Not classified as a reactivity hazard.  
Chemical stability : No decomposition if stored and applied as directed.  
Stable under normal conditions.  
Possibility of hazardous reactions : Stable under recommended storage conditions.  
No hazards to be specially mentioned.  
None known.  
Conditions to avoid : None known.  
Incompatible materials : Strong acids  
Strong bases  
Hazardous decomposition products : Decomposition products depend upon temperature, air supply  
and the presence of other materials.  
Decomposition products can include and are not limited to:  
Carbon oxides  
Nitrogen oxides (NOx)

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**SECTION 11. TOXICOLOGICAL INFORMATION****Acute toxicity****Product:**

Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg  
GLP: yes  
Acute inhalation toxicity : LC50 (Rat, male and female): > 2.21 mg/l  
Exposure time: 4 h  
Test atmosphere: Aerosol  
Symptoms: No deaths occurred at this concentration.  
Assessment: The substance or mixture has no acute inhalation toxicity  
Remarks: Maximum attainable concentration.  
Acute dermal toxicity : LD50 (Rat, male and female): > 5,000 mg/kg  
GLP: yes

**Components:****sulfoxaflor (ISO):**

Acute oral toxicity : LD50 (Rat, female): 1,000 mg/kg  
Remarks: Observations in animals include:  
Muscle spasms or twitches.  
Tremors.  
Convulsions.  
Acute inhalation toxicity : LC50 (Rat): > 2.09 mg/l  
Test atmosphere: dust/mist

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Symptoms: The LC50 value is greater than the Maximum Attainable Concentration., No deaths occurred at this concentration.

Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rat): > 5,000 mg/kg  
Symptoms: No deaths occurred at this concentration.  
Assessment: The substance or mixture has no acute dermal toxicity

### **Propylene glycol:**

Acute oral toxicity : LD50 (Rat): > 20,000 mg/kg

Acute inhalation toxicity : LC50 (Rabbit): 317.042 mg/l  
Exposure time: 2 h  
Test atmosphere: dust/mist  
Symptoms: No deaths occurred at this concentration.  
Assessment: The substance or mixture has no acute inhalation toxicity  
Remarks: Mist may cause irritation of upper respiratory tract (nose and throat).

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg  
Symptoms: No deaths occurred at this concentration.  
Assessment: The substance or mixture has no acute dermal toxicity

### **Unknown(s) - Sulfonated aromatic polymer, sodium salt for 300000000578, 300000000299:**

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

### **Skin corrosion/irritation**

#### **Product:**

Species : Rabbit  
Result : No skin irritation  
GLP : yes

#### **Components:**

##### **sulfoxaflor (ISO):**

Species : Rabbit  
Result : No skin irritation

##### **Propylene glycol:**

Species : Rabbit  
Result : No skin irritation

### **Unknown(s) - Sulfonated aromatic polymer, sodium salt for 300000000578, 300000000299:**

Result : No skin irritation

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### Serious eye damage/eye irritation

#### Product:

Species : Rabbit  
Result : No eye irritation  
GLP : yes

#### Components:

##### **sulfoxaflor (ISO):**

Species : Rabbit  
Result : No eye irritation

##### **Propylene glycol:**

Species : Rabbit  
Result : No eye irritation

##### **Unknown(s) - Sulfonated aromatic polymer, sodium salt for 300000000578, 300000000299:**

Result : Eye irritation

### Respiratory or skin sensitization

#### Product:

Assessment : Does not cause skin sensitization.

#### Components:

##### **sulfoxaflor (ISO):**

Species : Mouse  
Assessment : Does not cause skin sensitization.

##### **Propylene glycol:**

Species : human  
Assessment : Does not cause skin sensitization.

### Germ cell mutagenicity

#### Components:

##### **sulfoxaflor (ISO):**

Germ cell mutagenicity - Assessment : In vitro genetic toxicity studies were negative., Animal genetic toxicity studies were negative.

##### **Propylene glycol:**

Germ cell mutagenicity - Assessment : In vitro genetic toxicity studies were negative., Animal genetic toxicity studies were negative.



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**Carcinogenicity****Components:****sulfoxaflor (ISO):**

Carcinogenicity - Assessment : Has caused cancer in laboratory animals., However, the effects are species specific and are not relevant to humans.

**Propylene glycol:**

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

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

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

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

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

Reproductive toxicity - Assessment : In animal studies, has been shown to interfere with reproduction., However, the effects are species specific and are not relevant to humans., These concentrations exceed relevant human dose levels.  
Has caused birth defects in lab animals at high doses., In laboratory animals, excessive doses toxic to the parent animals caused decreased weight and survival of offspring., However, the effects are species specific and are not relevant to humans.

**Propylene glycol:**

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

**STOT-single exposure****Product:**

Assessment : Evaluation of available data suggests that this material is not an STOT-SE toxicant.

**Components:****sulfoxaflor (ISO):**

Assessment : Evaluation of available data suggests that this material is not an STOT-SE toxicant.

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### Propylene glycol:

Assessment : Evaluation of available data suggests that this material is not an STOT-SE toxicant.

### Unknown(s) - Sulfonated aromatic polymer, sodium salt for 300000000578, 300000000299:

Assessment : Evaluation of available data suggests that this material is not an STOT-SE toxicant.

### STOT-repeated exposure

#### Product:

Assessment : Evaluation of available data suggests that this material is not an STOT-RE toxicant.

### Repeated dose toxicity

#### Components:

##### **sulfoxaflor (ISO):**

Remarks : In animals, effects have been reported on the following organs:  
Liver.

##### **Propylene glycol:**

Remarks : In rare cases, repeated excessive exposure to propylene glycol may cause central nervous system effects.

### Aspiration toxicity

#### Product:

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

#### Components:

##### **sulfoxaflor (ISO):**

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

##### **Propylene glycol:**

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

##### **Unknown(s) - Sulfonated aromatic polymer, sodium salt for 300000000578, 300000000299:**

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

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**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Product:**

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 939 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): > 880 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202 or Equivalent
- LC50 (saltwater mysid Mysidopsis bahia): > 1 - < 10 mg/l  
Exposure time: 96 h  
Remarks: For similar material(s):
- Toxicity to algae/aquatic plants : ErC50 (diatom Navicula sp.): > 100 mg/l  
End point: Growth rate inhibition  
Exposure time: 72 h
- Toxicity to soil dwelling organisms : LC50 (Eisenia fetida (earthworms)): 6.4 mg/kg dry weight (d.w.)  
Exposure time: 14 d
- Toxicity to terrestrial organisms : Remarks: Material is practically non-toxic to birds on an acute basis (LD50 > 2000 mg/kg).
- oral LD50 (Colinus virginianus (Bobwhite quail)): > 2250 mg/kg bodyweight.
- oral LD50 (Apis mellifera (bees)): 0.23 micrograms/bee  
Exposure time: 48 h
- contact LD50 (Apis mellifera (bees)): 0.59 micrograms/bee  
Exposure time: 48 h

**Ecotoxicology Assessment**

- Acute aquatic toxicity : Toxic to aquatic life.
- Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

**Components:****sulfoxaflor (ISO):**

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 387 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 203 or Equivalent

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- LC50 (*Lepomis macrochirus* (Bluegill sunfish)): > 363 mg/l  
Exposure time: 96 h
- EC50 (*Cyprinus carpio* (Carp)): > 402 mg/l  
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): > 399 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202 or Equivalent
- LC50 (*Chironomus* sp.): 0.622 mg/l  
Exposure time: 96 h
- Toxicity to algae/aquatic plants : ErC50 (*Pseudokirchneriella subcapitata* (green algae)): > 100 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 201 or Equivalent
- ErC50 (*Lemna gibba*): > 100 mg/l  
Exposure time: 7 d
- Toxicity to fish (Chronic toxicity) : NOEC (*Pimephales promelas* (fathead minnow)): > 12.9 mg/l  
End point: mortality  
Exposure time: 30 d  
Test Type: flow-through test
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (*Daphnia magna* (Water flea)): 50.5 mg/l  
End point: growth  
Exposure time: 21 d  
Test Type: semi-static test
- NOEC (saltwater mysid *Mysidopsis bahia*): 0.114 mg/l  
End point: number of offspring  
Exposure time: 28 d  
Test Type: flow-through test  
Method: OECD Test Guideline 211 or Equivalent
- Toxicity to soil dwelling organisms : LC50 (*Eisenia fetida* (earthworms)): 0.885 mg/kg
- Toxicity to terrestrial organisms : dietary LC50 (*Colinus virginianus* (Bobwhite quail)): > 5620 mg/kg bodyweight.
- oral LD50 (*Colinus virginianus* (Bobwhite quail)): 676 mg/kg
- oral LD50 (*Apis mellifera* (bees)): 0.146 micrograms/bee  
Exposure time: 48 h
- contact LD50 (*Apis mellifera* (bees)): 0.539 micrograms/bee  
Exposure time: 48 d

### Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

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Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

**Propylene glycol:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 40,613 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : LC50 (Ceriodaphnia dubia (water flea)): 18,340 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): 19,000 mg/l  
End point: Growth rate inhibition  
Exposure time: 96 h  
Method: OECD Test Guideline 201

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Ceriodaphnia dubia (water flea)): 13,020 mg/l  
End point: number of offspring  
Exposure time: 7 d  
Test Type: semi-static test

Toxicity to microorganisms : NOEC (Pseudomonas putida): > 20,000 mg/l  
Exposure time: 18 h

**Unknown(s) - Sulfonated aromatic polymer, sodium salt for 30000000578, 30000000299:**

Toxicity to fish : Remarks: Material is slightly toxic to aquatic organisms on an acute basis (LC50/EC50 between 10 and 100 mg/L in the most sensitive species tested).

Remarks: Material is harmful to aquatic organisms (LC50/EC50/IC50 between 10 and 100 mg/L in the most sensitive species).

LC50 (Danio rerio (zebra fish)): > 10 - 100 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC10 (Daphnia magna (Water flea)): > 10 - 100 mg/l  
Exposure time: 21 d  
Method: OECD Test Guideline 211

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**Persistence and degradability****Components:****sulfoxaflor (ISO):**

Biodegradability : Result: Not biodegradable  
Biodegradation: 0 %  
Exposure time: 28 d  
Method: OECD Test Guideline 310  
Remarks: Material is not readily biodegradable according to OECD/EEC guidelines.

ThOD : 1.90 kg/kg

Photodegradation : Test Type: Half-life (indirect photolysis)  
Sensitizer: OH radicals  
Rate constant: 1.653E-11 cm<sup>3</sup>/s  
Method: Estimated.

**Propylene glycol:**

Biodegradability : aerobic  
Result: Readily biodegradable.  
Biodegradation: 81 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F or Equivalent  
Remarks: 10-day Window: Pass

Biodegradation: 96 %  
Exposure time: 64 d  
Method: OECD Test Guideline 306 or Equivalent  
Remarks: 10-day Window: Not applicable

Biochemical Oxygen Demand (BOD) : 69.000 %  
Incubation time: 5 d

70.000 %  
Incubation time: 10 d

86.000 %  
Incubation time: 20 d

Chemical Oxygen Demand (COD) : 1.53 kg/kg

ThOD : 1.68 kg/kg

Photodegradation : Rate constant: 1.28E-11 cm<sup>3</sup>/s  
Method: Estimated.

**Unknown(s) - Sulfonated aromatic polymer, sodium salt for 30000000578, 30000000299:**

Biodegradability : Result: Not biodegradable  
Remarks: No appreciable biodegradation is expected.

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### Bioaccumulative potential

#### Components:

##### **sulfoxaflor (ISO):**

Partition coefficient: n-octanol/water : log Pow: 0.802 (68 °F / 20 °C)  
pH: 7  
Method: Measured  
Remarks: Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

##### **Propylene glycol:**

Bioaccumulation : Bioconcentration factor (BCF): 0.09  
Method: Estimated.

Partition coefficient: n-octanol/water : log Pow: -1.07  
Method: Measured  
Remarks: Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

##### **Unknown(s) - Sulfonated aromatic polymer, sodium salt for 300000000578, 300000000299:**

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

##### **Balance:**

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

### Mobility in soil

#### Components:

##### **sulfoxaflor (ISO):**

Distribution among environmental compartments : Koc: 40  
Method: Measured  
Remarks: Potential for mobility in soil is very high (Koc between 0 and 50).

##### **Propylene glycol:**

Distribution among environmental compartments : Koc: < 1  
Method: Estimated.  
Remarks: Given its very low Henry's constant, volatilization from natural bodies of water or moist soil is not expected to be an important fate process.  
Potential for mobility in soil is very high (Koc between 0 and 50).

##### **Unknown(s) - Sulfonated aromatic polymer, sodium salt for 300000000578, 300000000299:**

Distribution among environmental compartments : Remarks: No relevant data found.

##### **Balance:**

Distribution among environmental compartments : Remarks: No relevant data found.

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mental compartments

**Other adverse effects****Product:**

Additional ecological information : Toxic to aquatic life with long lasting effects.

**Components:****sulfoxaflor (ISO):**

Results of PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

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

**Propylene glycol:**

Results of PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

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

**Unknown(s) - Sulfonated aromatic polymer, sodium salt for 300000000578, 300000000299:**

Results of PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

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

**Balance:**

Results of PBT and vPvB assessment : This substance has not been assessed for persistence, bioaccumulation and toxicity (PBT).

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

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

Waste from residues : If wastes and/or containers cannot be disposed of according to the product label directions, disposal of this material must be in accordance with your local or area regulatory authorities. This information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the



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material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

If the material as supplied becomes a waste, follow all applicable regional, national and local laws.

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

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

**IATA-DGR**

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

**IMDG-Code**

UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Sulfoxaflor)
Class	:	9
Packing group	:	III
Labels	:	9
EmS Code	:	F-A, S-F
Marine pollutant	:	yes
Remarks	:	Stowage category A

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

Not applicable for product as supplied.

**Domestic regulation****49 CFR**

Not regulated as a dangerous good

**Further information**

Marine Pollutants assigned UN number 3077 and 3082 in single or combination packaging containing a net quantity per single or inner packaging of 5L or less for liquids or having a net mass per single or inner packaging of 5 KG or less for solids may be transported as non-dangerous

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goods as provided in section 2.10.2.7 of IMDG code, IATA Special provision A197, and ADR/RID special provision 375.

**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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**SECTION 15. REGULATORY INFORMATION**

**SARA 311/312 Hazards** : No SARA Hazards

**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.

**US State Regulations****Pennsylvania Right To Know**

Propylene glycol

57-55-6

**California Prop. 65**

WARNING: This product can expose you to chemicals including sulphuric acid, formaldehyde, naphthalene, ethylene oxide, which is/are known to the State of California to cause cancer, and ethylene oxide, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

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

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

**TSCA list**

No substances are subject to a Significant New Use Rule.

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

**Federal Insecticide, Fungicide and Rodenticide Act**

EPA Registration Number : 62719-623

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**

Causes moderate eye irritation

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### SECTION 16. OTHER INFORMATION

#### Information Source and References

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

#### Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
US WEEL	:	USA. Workplace Environmental Exposure Levels (WEEL)
ACGIH / 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 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; 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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