

# SAFETY DATA SHEET



## Pixxaro™ EC

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	06/09/2022	800080005295	Date of first issue: 06/09/2022

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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 : Pixxaro™ EC

#### 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 herbicide product

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### SECTION 2. HAZARDS IDENTIFICATION

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

Eye irritation : Category 2B

Skin sensitization : Sub-category 1B

Specific target organ toxicity : Category 3 (Respiratory system)  
- single exposure

#### GHS label elements

Hazard pictograms :



Signal Word : Warning

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Hazard Statements : H317 May cause an allergic skin reaction.  
H320 Causes eye irritation.  
H335 May cause respiratory irritation.

Precautionary Statements : **Prevention:**  
P261 Avoid breathing mist or vapors.  
P264 Wash skin thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P272 Contaminated work clothing must not be allowed out of the workplace.  
P280 Wear protective gloves.

**Response:**  
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.  
P363 Wash contaminated clothing before reuse.

**Storage:**  
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.

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

**Other hazards**  
None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
fluroxypyr-meptyl (ISO)	81406-37-3	38.94
Halauxifen-methyl	943831-98-9	1.21
Cloquintocet-mexyl	99607-70-2	1.12
Benzenesulfonic Acid, 4-C10-14-Alkyl Derivs., Calcium Salts	90194-26-6	>= 1 - < 3
Ethylhexanol	104-76-7	>= 1 - < 3
N-methyl-2-pyrrolidone	872-50-4	>= 0.1 - < 0.3
Balance	Not Assigned	> 50

Actual concentration is withheld as a trade secret

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### SECTION 4. FIRST AID MEASURES

- If inhaled : Move person to fresh air. If person is not breathing, call an emergency responder or ambulance, then give artificial respiration; if by mouth to mouth use rescuer protection (pocket mask etc). Call a poison control center or doctor for treatment advice.
- In case of skin contact : Take off contaminated clothing. Wash skin with soap and plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.  
Wash clothing before reuse. Shoes and other leather items which cannot be decontaminated should be disposed of properly.  
Suitable emergency safety shower facility should be available in work area.
- 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 : Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor.  
Never give anything by mouth to an unconscious person.
- Most important symptoms and effects, both acute and delayed : None known.
- 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.
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### 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:  
Sulfur oxides  
Nitrogen oxides (NOx)  
Carbon oxides
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Hydrogen chloride gas  
Hydrogen fluoride

Specific extinguishing methods : Remove undamaged containers from fire area if it is safe to do so.  
Evacuate area.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Use water spray to cool unopened containers.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.  
Use personal protective equipment.

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**SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures : Ensure adequate ventilation.  
Use personal protective equipment.  
Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

Environmental precautions : If the product contaminates rivers and lakes or drains inform respective authorities.  
Discharge into the environment must be avoided.  
Prevent further leakage or spillage if safe to do so.  
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**

- Local/Total ventilation : Use with local exhaust ventilation.
- Advice on safe handling : Avoid formation of aerosol.  
Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Do not breathe vapors/dust.  
Do not smoke.  
Handle in accordance with good industrial hygiene and safety practice.  
Avoid exposure - obtain special instructions before use.  
Smoking, eating and drinking should be prohibited in the application area.  
Do not get on skin or clothing.  
Do not breathe vapors or spray mist.  
Do not swallow.  
Do not get in eyes.  
Avoid contact with skin and eyes.  
Keep container tightly closed.  
Take care to prevent spills, waste and minimize release to the environment.  
Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.
- Conditions for safe storage : Store in a closed container.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Keep in properly labeled containers.  
Store in accordance with the particular national regulations.
- Materials to avoid : Strong oxidizing agents
- Packaging material : Unsuitable material: None known.

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

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
fluroxypyr-meptyl (ISO)	81406-37-3	TWA	10 mg/m3	Dow IHG
Ethylhexanol	104-76-7	TWA	2 ppm	Corteva OEL
N-methyl-2-pyrrolidone	872-50-4	TWA	15 ppm 60 mg/m3	US WEEL
		STEL	30 ppm 120 mg/m3	US WEEL

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**Biological occupational exposure limits**

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
N-methyl-2-pyrrolidone	872-50-4	5-Hydroxy-N-methyl-2-pyrrolidone	Urine	End of shift (As soon as possible after exposure ceases)	100 mg/l	ACGIH BEI

**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.  
Local exhaust ventilation may be necessary for some operations.

**Personal protective equipment**

**Respiratory protection** : Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, 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** : Use gloves chemically resistant to this material. Examples of preferred glove barrier materials include: Butyl rubber. Chlorinated polyethylene. Polyethylene. Ethyl vinyl alcohol laminate ("EVAL"). Examples of acceptable glove barrier materials include: Natural rubber ("latex"). Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). Polyvinyl chloride ("PVC" or "vinyl"). Viton. NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.

**Eye protection** : Use chemical goggles.

**Skin and body protection** : Use protective clothing chemically resistant to this material. Selection of specific items such as face shield, boots, apron, or full body suit will depend on the task.

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : Liquid.

Color : Yellow

Odor : Mild

Odor Threshold : Not applicable

pH : 5.16 (73 °F / 23 °C)  
Method: pH Electrode  
1% Aqueous solution

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) : Non-flammable

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

Relative density : No data available

Density : 1.04 g/cm<sup>3</sup> (68 °F / 20 °C)

Solubility(ies)  
Water solubility : No data available

Autoignition temperature : 662 °F / 350 °C

Viscosity  
Viscosity, dynamic : 58.7 mPa.s (68 °F / 20 °C)  
Viscosity, kinematic : No data available

Explosive properties : Not explosive

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Oxidizing properties : No significant increase (>5C) in temperature.  
Reference substance: Monoammonium phosphate

Surface tension : 29.5 mN/m, 77 °F / 25 °C

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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:  
Sulfur oxides  
Carbon oxides  
Nitrogen oxides (NOx)  
Hydrogen fluoride  
Hydrogen chloride gas

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

Acute oral toxicity : LD50 (Rat, female): > 2,000 - 5,000 mg/kg  
Symptoms: No deaths occurred at this concentration.  
Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity : LC50 (Rat, male and female): > 5.80 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
Symptoms: No deaths occurred at this concentration.  
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 Dermal (Rat, male and female): > 5,000 mg/kg  
Method: OECD Test Guideline 402  
Symptoms: No deaths occurred at this concentration.



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**Components:****fluroxypyr-meptyl (ISO):**

- Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg  
Symptoms: No deaths occurred at this concentration.  
Assessment: The substance or mixture has no acute oral toxicity
- Acute inhalation toxicity : LC50 (Rat, male and female): > 1.16 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
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 (Rabbit): > 2,000 mg/kg  
Symptoms: No deaths occurred at this concentration.  
Assessment: The substance or mixture has no acute dermal toxicity

**Halauxifen-methyl:**

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

**Cloquintocet-mexyl:**

- Acute oral toxicity : LD50 (Rat, female): > 2,000 mg/kg  
Symptoms: No deaths occurred at this concentration.  
Assessment: The substance or mixture has no acute oral toxicity
- Acute inhalation toxicity : LC50 (Rat, male and female): > 5.42 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

**Benzenesulfonic Acid, 4-C10-14-Alkyl Derivs., Calcium Salts:**

- Acute oral toxicity : LD50 (Rat, female): 4,445 mg/kg
- Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity

**Ethylhexanol:**

- Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg  
Target Organs: Central nervous system
- Acute inhalation toxicity : LC50 (Rat): 2.17 mg/l

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Exposure time: 4 h  
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rabbit): > 3,000 mg/kg  
Method: OECD Test Guideline 402

**N-methyl-2-pyrrolidone:**

Acute oral toxicity : LD50 (Rat, male and female): 4,150 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat, male and female): > 5.1 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
Symptoms: No deaths occurred at this concentration.

Acute dermal toxicity : LD50 (Rat, male and female): > 5,000 mg/kg  
Method: OECD Test Guideline 402

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

Species : Rabbit  
Result : No skin irritation

**Components:****fluroxypyr-meptyl (ISO):**

Species : Rabbit  
Result : No skin irritation

**Benzenesulfonic Acid, 4-C10-14-Alkyl Derivs., Calcium Salts:**

Result : Skin irritation

**Ethylhexanol:**

Species : Rabbit  
Result : Skin irritation

**N-methyl-2-pyrrolidone:**

Species : Rabbit  
Result : Skin irritation

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

Species : Rabbit  
Result : Mild eye irritation

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**Components:****Benzenesulfonic Acid, 4-C10-14-Alkyl Derivs., Calcium Salts:**

Result : Corrosive

**Ethylhexanol:**

Species : Rabbit  
Result : Eye irritation

**N-methyl-2-pyrrolidone:**

Species : Rabbit  
Result : Eye irritation

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

Species : Mouse  
Assessment : The product is a skin sensitizer, sub-category 1B.

**Components:****fluroxypyr-meptyl (ISO):**

Species : Guinea pig  
Assessment : Does not cause skin sensitization.

**Halauxifen-methyl:**

Remarks : Did not demonstrate the potential for contact allergy in mice.

Remarks : For respiratory sensitization:  
No relevant data found.

**Cloquintocet-mexyl:**

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

**Benzenesulfonic Acid, 4-C10-14-Alkyl Derivs., Calcium Salts:**

Remarks : For skin sensitization:  
Did not cause allergic skin reactions when tested in guinea pigs.

Remarks : For respiratory sensitization:  
No relevant data found.

**Ethylhexanol:**

Test Type : HRIPT (human repeat insult patch test)  
Species : human  
Assessment : Does not cause skin sensitization.

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**N-methyl-2-pyrrolidone:**

Species : Guinea pig  
 Assessment : Does not cause skin sensitization.

**Germ cell mutagenicity****Components:****fluroxypyr-meptyl (ISO):**

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

**Halauxifen-methyl:**

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

**Cloquintocet-mexyl:**

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

**Benzenesulfonic Acid, 4-C10-14-Alkyl Derivs., Calcium Salts:**

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

**Ethylhexanol:**

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

**N-methyl-2-pyrrolidone:**

Germ cell mutagenicity - Assessment : In vitro genetic toxicity studies were negative in some cases and positive in other cases., Animal genetic toxicity studies were negative.

**Carcinogenicity****Components:****fluroxypyr-meptyl (ISO):**

Carcinogenicity - Assessment : For similar active ingredient(s), Fluroxypyr., Did not cause cancer in laboratory animals.

**Halauxifen-methyl:**

Carcinogenicity - Assessment : For similar active ingredient(s), Halauxifen., Did not cause cancer in laboratory animals.

**Cloquintocet-mexyl:**

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

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**Ethylhexanol:**

Carcinogenicity - Assessment : In laboratory animals, evidence of carcinogenic activity was observed., These is no evidence that these findings are relevant to humans.

**N-methyl-2-pyrrolidone:**

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****Product:**

Reproductive toxicity - Assessment : No toxicity to reproduction

**Components:****fluroxypyr-meptyl (ISO):**

Reproductive toxicity - Assessment : In animal studies, did not interfere with reproduction. Has been toxic to the fetus in laboratory animals at doses toxic to the mother., Did not cause birth defects in laboratory animals.

**Halauxifen-methyl:**

Reproductive toxicity - Assessment : For similar active ingredient(s)., Halauxifen., In animal studies, did not interfere with reproduction. Has been toxic to the fetus in laboratory animals at doses toxic to the mother., Did not cause birth defects in laboratory animals.

**Cloquintocet-mexyl:**

Reproductive toxicity - Assessment : Did not cause birth defects or any other fetal effects in laboratory animals.

**Benzenesulfonic Acid, 4-C10-14-Alkyl Derivs., Calcium Salts:**

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

**Ethylhexanol:**

Reproductive toxicity - Assessment : Has caused birth defects in laboratory animals only at doses toxic to the mother., Has been toxic to the fetus in laboratory animals at doses toxic to the mother., These concentrations

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exceed relevant human dose levels.

**N-methyl-2-pyrrolidone:**

Reproductive toxicity - Assessment : Clear evidence of adverse effects on development, based on animal experiments.  
N-methyl pyrrolidone has caused toxic effects to the fetus in laboratory animals at high dose levels with either mild or undetectable maternal toxicity.

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

Routes of exposure : Inhalation  
Assessment : May cause respiratory irritation.

**Components:****Halauxifen-methyl:**

Assessment : Available data are inadequate to determine single exposure specific target organ toxicity.

**Cloquintocet-mexyl:**

Assessment : Available data are inadequate to determine single exposure specific target organ toxicity.

**Benzenesulfonic Acid, 4-C10-14-Alkyl Derivs., Calcium Salts:**

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

**Ethylhexanol:**

Routes of exposure : Inhalation  
Target Organs : Respiratory Tract  
Assessment : May cause respiratory irritation.

**N-methyl-2-pyrrolidone:**

Routes of exposure : Inhalation  
Target Organs : Respiratory Tract  
Assessment : May cause respiratory irritation.

**Repeated dose toxicity****Components:****fluroxypyr-meptyl (ISO):**

Remarks : Based on available data, repeated exposures are not anticipated to cause significant adverse effects.

**Halauxifen-methyl:**

Remarks : In animals, effects have been reported on the following or-

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gans:  
Kidney.  
Liver.  
Thyroid.

### **Cloquintocet-mexyl:**

Remarks : In animals, effects have been reported on the following organs:  
Liver.  
Kidney.  
Thymus.  
Thyroid.  
Bladder.  
Bone marrow.

### **Benzenesulfonic Acid, 4-C10-14-Alkyl Derivs., Calcium Salts:**

Remarks : Based on available data, repeated exposures are not anticipated to cause significant adverse effects.

### **Ethylhexanol:**

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

### **N-methyl-2-pyrrolidone:**

Remarks : Based on available data, repeated exposures are not anticipated to cause significant adverse effects.

### **Aspiration toxicity**

#### **Product:**

May be harmful if swallowed and enters airways.

#### **Components:**

##### **fluroxypyr-meptyl (ISO):**

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

##### **Halauxifen-methyl:**

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

##### **Cloquintocet-mexyl:**

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

##### **Benzenesulfonic Acid, 4-C10-14-Alkyl Derivs., Calcium Salts:**

Based on available information, aspiration hazard could not be determined.

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**Ethylhexanol:**

May be harmful if swallowed and enters airways.

**N-methyl-2-pyrrolidone:**

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)): 12.2 mg/l<br>Exposure time: 96 h<br>Test Type: semi-static test<br>Method: OECD Test Guideline 203  |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): 15 mg/l<br>Exposure time: 48 h<br>Test Type: semi-static test<br>Method: OECD Test Guideline 202   |
| Toxicity to algae/aquatic plants                    | : | ErC50 (Myriophyllum spicatum): 0.0235 mg/l<br>End point: Growth inhibition<br>Exposure time: 14 d<br>Test Type: Growth inhibition<br><br>EC50 (Pseudokirchneriella subcapitata (green algae)): 0.166 mg/l<br>Exposure time: 72 h              |
| Toxicity to soil dwelling organisms                 | : | LC50 (Eisenia fetida (earthworms)): > 1,000 mg/kg<br>Exposure time: 14 d<br><br>NOEC (Eisenia fetida (earthworms)): 80 mg/kg<br>Exposure time: 56 d   |
| Toxicity to terrestrial organisms                   | : | oral LD50 (Colinus virginianus (Bobwhite quail)): > 2000 mg/kg bodyweight.<br><br>contact LD50 (Apis mellifera (bees)): > 200.0 µg/bee<br>Exposure time: 48 h<br><br>oral LD50 (Apis mellifera (bees)): > 191.0 µg/bee<br>Exposure time: 48 h |

**Ecotoxicology Assessment**

- |                        |   |                             |
|------------------------|---|-----------------------------|
| Acute aquatic toxicity | : | Very toxic to aquatic life. |
|------------------------|---|-----------------------------|



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**Components:****fluroxypyr-meptyl (ISO):**

- Toxicity to fish : Remarks: Material is very highly toxic to aquatic organisms on an acute basis (LC50/EC50 <0.1 mg/L in the most sensitive species).
- LC50 (Oncorhynchus mykiss (rainbow trout)): > 0.225 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Method: OECD Test Guideline 203 or Equivalent
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 0.183 mg/l  
Exposure time: 48 h  
Test Type: semi-static test  
Method: OECD Test Guideline 202 or Equivalent
- Toxicity to algae/aquatic plants : ErC50 (diatom Navicula sp.): 0.24 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201 or Equivalent
- EbC50 (alga Scenedesmus sp.): > 0.47 mg/l  
Exposure time: 72 h
- ErC50 (Selenastrum capricornutum (green algae)): > 1.410 mg/l  
Exposure time: 96 h
- ErC50 (Myriophyllum spicatum): 0.075 mg/l  
Exposure time: 14 d
- NOEC (Myriophyllum spicatum): 0.031 mg/l  
Exposure time: 14 d
- M-Factor (Acute aquatic toxicity) : 10
- Toxicity to fish (Chronic toxicity) : NOEC (Rainbow trout (Oncorhynchus mykiss)): 0.32 mg/l
- M-Factor (Chronic aquatic toxicity) : 1
- Toxicity to soil dwelling organisms : LC50 (Eisenia fetida (earthworms)): > 1,000 mg/kg
- Toxicity to terrestrial organisms : Remarks: Material is practically non-toxic to birds on an acute basis (LD50 > 2000 mg/kg)., Material is practically non-toxic to birds on a dietary basis (LC50 > 5000 ppm).
- oral LD50 (Colinus virginianus (Bobwhite quail)): > 2000 mg/kg bodyweight.  
Exposure time: 5 d
- dietary LC50 (Colinus virginianus (Bobwhite quail)): > 5000 mg/kg diet.
- oral LD50 (Apis mellifera (bees)): > 100 micrograms/bee

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Exposure time: 48 h

contact LD50 (*Apis mellifera* (bees)): > 100 micrograms/bee  
Exposure time: 48 h

**Ecotoxicology Assessment**

Acute aquatic toxicity : Very toxic to aquatic life.

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

**Halauxifen-methyl:**

Toxicity to fish : Remarks: Material is very highly toxic to aquatic organisms on an acute basis (LC50/EC50 <0.1 mg/L in the most sensitive species).

LC50 (*Rainbow trout* (*Oncorhynchus mykiss*)): 2.01 mg/l  
Exposure time: 96 h  
Test Type: static test

LC50 (*Pimephales promelas* (fathead minnow)): > 3.22 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 2.12 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)): > 3.0 mg/l  
Exposure time: 96 h

ErC50 (*Myriophyllum spicatum*): 0.000393 mg/l  
End point: Growth rate inhibition  
Exposure time: 14 d

M-Factor (Acute aquatic toxicity) : 1,000

Toxicity to fish (Chronic toxicity) : NOEC (*Pimephales promelas* (fathead minnow)): 0.259 mg/l  
End point: Other  
Test Type: flow-through test

NOEC (*Cyprinodon variegatus* (sheepshead minnow)): 0.00272 mg/l  
Exposure time: 36 d  
Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (*Daphnia magna* (Water flea)): 0.484 mg/l  
End point: number of offspring  
Exposure time: 21 d  
Test Type: semi-static test

M-Factor (Chronic aquatic toxicity) : 1,000

Toxicity to microorganisms : EC50 (activated sludge): > 981 mg/l

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Exposure time: 1 d

Toxicity to soil dwelling organisms : LC50 (*Eisenia fetida* (earthworms)): > 1,000 mg/kg  
Exposure time: 14 d  
End point: mortality

Toxicity to terrestrial organisms : Remarks: Material is practically non-toxic to birds on an acute basis (LD50 > 2000 mg/kg)., Material is practically non-toxic to birds on a dietary basis (LC50 > 5000 ppm).

dietary LC50 (*Colinus virginianus* (Bobwhite quail)): > 5,620 ppm  
Exposure time: 5 d  
Method: Other guidelines

dietary LC50 (*Anas platyrhynchos* (Mallard duck)): > 5,620 ppm  
Exposure time: 5 d  
Method: Other guidelines

oral LD50 (*Colinus virginianus* (Bobwhite quail)): > 2250 mg/kg bodyweight.  
End point: mortality

contact LD50 (*Apis mellifera* (bees)): > 98.1 µg/bee  
Exposure time: 48 h  
End point: mortality

oral LD50 (*Apis mellifera* (bees)): > 108 µg/bee  
Exposure time: 48 h  
End point: mortality

**Ecotoxicology Assessment**

Acute aquatic toxicity : Very toxic to aquatic life.

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

**Cloquintocet-mexyl:**

Toxicity to fish : LC50 (*Oncorhynchus mykiss* (rainbow trout)): > 0.97 mg/l  
Exposure time: 96 h  
Test Type: flow-through test  
Method: Method Not Specified.  
Remarks: As the ester active substance.

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): > 0.82 mg/l  
Exposure time: 48 h  
Test Type: flow-through test  
Method: Method Not Specified.

Toxicity to algae/aquatic plants : EbC50 (alga *Scenedesmus* sp.): 0.63 mg/l  
End point: Biomass  
Exposure time: 96 h  
Method: Method Not Specified.

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EbC50 (Lemna minor (duckweed)): > 0.42 mg/l  
 End point: Biomass  
 Exposure time: 14 d  
 Method: Method Not Specified.

Toxicity to soil dwelling organisms : LC50 (Eisenia fetida (earthworms)): > 1,000 mg/kg  
 Toxicity to terrestrial organisms : oral LD50 (Anas platyrhynchos (Mallard duck)): > 2000 mg/kg bodyweight.

dietary LC50 (Anas platyrhynchos (Mallard duck)): > 5200 mg/kg diet.  
 Exposure time: 8 d

oral LD50 (Apis mellifera (bees)): > 100 micrograms/bee  
 Exposure time: 48 h

contact LD50 (Apis mellifera (bees)): > 100 micrograms/bee  
 Exposure time: 48 h

**Ecotoxicology Assessment**

Acute aquatic toxicity : Very toxic to aquatic life.

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

**Benzenesulfonic Acid, 4-C10-14-Alkyl Derivs., Calcium Salts:**

Toxicity to fish : Remarks: Material is moderately toxic to aquatic organisms on an acute basis (LC50/EC50 between 1 and 10 mg/L in the most sensitive species tested).

Remarks: Material is toxic to aquatic organisms (LC50/EC50/IC50 between 1 and 10 mg/L in the most sensitive species).

LC50 (Fish): > 1 - 10 mg/l  
 Exposure time: 96 h  
 Test Type: Static

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 2.9 mg/l  
 Exposure time: 48 h  
 Test Type: Static

Toxicity to algae/aquatic plants : EC50 (Algae): 29 mg/l  
 Exposure time: 96 h  
 Test Type: Static

Toxicity to fish (Chronic toxicity) : (Fish): 0.23 mg/l  
 Exposure time: 72 d  
 Test Type: flow-through

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : (Daphnia magna (Water flea)): 1.18 mg/l  
 Exposure time: 21 d  
 Test Type: flow-through test

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Toxicity to microorganisms : EC50 (Bacteria): 550 mg/l  
Exposure time: 3 h

**Ecotoxicology Assessment**

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

**Ethylhexanol:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 32 - 37 mg/l  
Exposure time: 96 h

LC50 (Fathead minnow (Pimephales promelas)): 28.2 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): 35.2 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

EC50 (Daphnia magna (Water flea)): 39 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202 or Equivalent

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): 11.5 mg/l  
End point: Growth rate inhibition  
Exposure time: 72 h  
Method: OECD Test Guideline 201 or Equivalent

Toxicity to microorganisms : EC50 (Bacteria): 256 - 320 mg/l  
Exposure time: 16 h

**N-methyl-2-pyrrolidone:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 5,000 mg/l  
Exposure time: 96 h  
Test Type: static test

LC50 (Pimephales promelas (fathead minnow)): 1,072 mg/l  
Exposure time: 96 h  
Test Type: static test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1,000 mg/l  
Exposure time: 24 h  
Test Type: static test  
Method: OECD Test Guideline 202 or Equivalent

Toxicity to algae/aquatic plants : ErC50 (Desmodesmus subspicatus (green algae)): > 500 mg/l  
End point: Growth rate inhibition  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201 or Equivalent

Toxicity to daphnia and other aquatic invertebrates (Chronic) : NOEC (Daphnia magna (Water flea)): 12.5 mg/l  
Exposure time: 21 d

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ic toxicity)      Test Type: semi-static test  
Method: OECD Test Guideline 211 or Equivalent

**Persistence and degradability****Components:****fluroxypyr-meptyl (ISO):**

Biodegradability      :    Result: Not biodegradable  
Remarks: Material is not readily biodegradable according to OECD/EEC guidelines.

Biodegradation: 32 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301D or Equivalent  
Remarks: 10-day Window: Fail

ThOD      :    2.2 kg/kg

Stability in water      :    Test Type: Hydrolysis  
Degradation half life (half-life): 454 d

**Halauxifen-methyl:**

Biodegradability      :    Result: Not biodegradable  
Remarks: For similar active ingredient(s).  
Halauxifen.  
Material is expected to biodegrade very slowly (in the environment). Fails to pass OECD/EEC tests for ready biodegradability.

Biodegradation: 7.7 %  
Exposure time: 28 d  
Method: OECD Test Guideline 310 or Equivalent  
Remarks: 10-day Window: Not applicable

**Benzenesulfonic Acid, 4-C10-14-Alkyl Derivs., Calcium Salts:**

Biodegradability      :    Remarks: Material is readily biodegradable. Passes OECD test(s) for ready biodegradability.

Result: Readily biodegradable.  
Biodegradation: 100 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B or Equivalent  
Remarks: 10-day Window: Pass

**Ethylhexanol:**

Biodegradability      :    Result: Readily biodegradable.  
Biodegradation: > 95 %  
Exposure time: 5 d  
Method: OECD Test Guideline 302B or Equivalent  
Remarks: 10-day Window: Not applicable

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Biodegradation: 68 %  
Exposure time: 17 d  
Method: OECD Test Guideline 301B or Equivalent  
Remarks: 10-day Window: Pass

Biochemical Oxygen Demand (BOD) : 26 - 70 %  
Incubation time: 5 d

75 - 81 %  
Incubation time: 10 d

86 - 87 %  
Incubation time: 20 d

Chemical Oxygen Demand (COD) : 2.70 kg/kg

ThOD : 2.95 kg/kg

Photodegradation : Test Type: Half-life (indirect photolysis)  
Sensitizer: OH radicals  
Rate constant: 1.32E-11 cm<sup>3</sup>/s  
Method: Estimated.

### **N-methyl-2-pyrrolidone:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 91 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B or Equivalent  
Remarks: 10-day Window: Pass

Concentration: 30 mg/l  
Biodegradation: 73 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301C or Equivalent  
Remarks: 10-day Window: Not applicable

Biodegradation: > 90 %  
Exposure time: 8 d  
Method: OECD Test Guideline 302B or Equivalent  
Remarks: 10-day Window: Not applicable

ThOD : 2.58 kg/kg

Photodegradation : Test Type: Half-life (indirect photolysis)  
Sensitizer: OH radicals  
Rate constant: 2.199E-11 cm<sup>3</sup>/s  
Method: Estimated.

### **Bioaccumulative potential**

#### **Components:**

#### **fluroxypyr-meptyl (ISO):**

Bioaccumulation : Species: Oncorhynchus mykiss (rainbow trout)

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Bioconcentration factor (BCF): 26  
Method: Measured

Partition coefficient: n-octanol/water :

log Pow: 5.04  
Method: Measured  
Remarks: Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

**Halauxifen-methyl:**

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)  
Bioconcentration factor (BCF): 233  
Exposure time: 42 d  
Temperature: 71.2 °F / 21.8 °C  
Concentration: 0.00194 mg/l

Partition coefficient: n-octanol/water :

log Pow: 3.76  
Remarks: Bioconcentration potential is moderate (BCF between 100 and 3000 or Log Pow between 3 and 5).

**Cloquintocet-mexyl:**

Bioaccumulation : Species: Fish  
Bioconcentration factor (BCF): 122 - 621

Partition coefficient: n-octanol/water :

log Pow: 5.3  
Method: Estimated.  
Remarks: Bioconcentration potential is moderate (BCF between 100 and 3000 or Log Pow between 3 and 5).

**Benzenesulfonic Acid, 4-C10-14-Alkyl Derivs., Calcium Salts:**

Bioaccumulation : Bioconcentration factor (BCF): 2 - 1,000

Partition coefficient: n-octanol/water :

log Pow: 2.89  
Remarks: Bioconcentration potential is moderate (BCF between 100 and 3000 or Log Pow between 3 and 5).

**Ethylhexanol:**

Partition coefficient: n-octanol/water : log Pow: 3.1  
Method: Measured  
Remarks: Bioconcentration potential is moderate (BCF between 100 and 3000 or Log Pow between 3 and 5).

**N-methyl-2-pyrrolidone:**

Partition coefficient: n-octanol/water : log Pow: -0.38  
Method: Measured  
Remarks: Bioconcentration potential is low (BCF < 100 or Log Pow < 3).



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**Balance:**

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

**Mobility in soil****Components:****fluroxypyr-meptyl (ISO):**

Distribution among environmental compartments : Koc: 6200 - 43000  
Remarks: Expected to be relatively immobile in soil (Koc > 5000).

**Halauxifen-methyl:**

Distribution among environmental compartments : Koc: 5684  
Remarks: Expected to be relatively immobile in soil (Koc > 5000).

**Cloquintocet-mexyl:**

Distribution among environmental compartments : Koc: 38070  
Method: Estimated.  
Remarks: Expected to be relatively immobile in soil (Koc > 5000).

**Benzenesulfonic Acid, 4-C10-14-Alkyl Derivs., Calcium Salts:**

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

**Ethylhexanol:**

Distribution among environmental compartments : Koc: 800  
Method: Estimated.  
Remarks: Potential for mobility in soil is low (Koc between 500 and 2000).

**N-methyl-2-pyrrolidone:**

Distribution among environmental compartments : Koc: 21  
Method: Estimated.  
Remarks: Potential for mobility in soil is very high (Koc between 0 and 50).  
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.

**Balance:**

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

**Other adverse effects****Components:****fluroxypyr-meptyl (ISO):**

Results of PBT and vPvB : This substance is not considered to be persistent, bioaccumu-



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

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

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

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

**IATA-DGR**

UN/ID No. : UN 3082  
 Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.  
 (Fluroxypyr, Halauxifen-methyl)  
 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.  
 (Fluroxypyr, Halauxifen-methyl)  
 Class : 9  
 Packing group : III  
 Labels : 9  
 EmS Code : F-A, S-F  
 Marine pollutant : yes  
 Remarks : Stowage category A

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### 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 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** : Respiratory or skin sensitization  
Serious eye damage or eye irritation  
Specific target organ toxicity (single or repeated 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.

### US State Regulations

#### Pennsylvania Right To Know

Ethylhexanol

104-76-7

#### California Prop. 65

WARNING: This product can expose you to chemicals including 4-methylpentan-2-one, which is/are known to the State of California to cause cancer, and N-methyl-2-pyrrolidone, 4-methylpentan-2-one, 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

The following substance(s) is/are subject to a Significant New Use Rule:

Cloquintocet-mexyl 99607-70-2

The following substance(s) is/are subject to TSCA 12(b) export notification requirements:

Cloquintocet-mexyl 99607-70-2

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**Federal Insecticide, Fungicide and Rodenticide Act**

EPA Registration Number : 62719-735

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  
Causes moderate eye irritation.

**SECTION 16. OTHER INFORMATION**

## Information Source and References

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

**Full text of other abbreviations**

ACGIH BEI	:	ACGIH - Biological Exposure Indices (BEI)
Corteva OEL	:	Corteva Occupational Exposure Limit
Dow IHG	:	Dow Industrial Hygiene Guideline
US WEEL	:	USA. Workplace Environmental Exposure Levels (WEEL)
Corteva OEL / TWA	:	Time weighted average
Dow IHG / TWA	:	Time Weighted Average (TWA):
US WEEL / TWA	:	8-hr TWA
US WEEL / STEL	:	Short-Term 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, Bioaccumu-

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lative 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

Revision Date : 06/09/2022

Product code: GF-2819

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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