

# SAFETY DATA SHEET



## GRANDSTAND™ R

Version 1.0      Revision Date: 02/11/2022      SDS Number: 800080003108      Date of last issue: -  
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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 : GRANDSTAND™ R

#### 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)

Flammable liquids : Category 3

Eye irritation : Category 2A

Specific target organ toxicity : Category 2 (Kidney)  
- repeated exposure

#### GHS label elements

Hazard pictograms :



Signal Word : Warning

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Hazard Statements : H226 Flammable liquid and vapor.  
H319 Causes serious eye irritation.  
H373 May cause damage to organs (Kidney) through prolonged or repeated exposure.

Precautionary Statements : **Prevention:**  
P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.  
P233 Keep container tightly closed.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.  
P264 Wash skin thoroughly after handling.  
P280 Wear protective gloves/ eye protection/ face protection.

**Response:**  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P314 Get medical advice/ attention if you feel unwell.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

**Storage:**  
P403 + P235 Store in a well-ventilated place. Keep cool.

**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)
Triclopyr Triethylamine Salt	57213-69-1	44.05
ethanol	64-17-5	>= 1 - < 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. 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 immediately available.
- 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.
- Protection of first-aiders : First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). 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  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical
- Unsuitable extinguishing media : Do not use direct water stream.  
High volume water jet
- Specific hazards during fire fighting : Exposure to combustion products may be a hazard to health. Vapors may form explosive mixtures with air. Do not allow run-off from firefighting to enter drains or water courses. Flash back possible over considerable distance.
- 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.

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Combustion products may include and are not limited to:  
 Nitrogen oxides (NO<sub>x</sub>)  
 Hydrogen chloride gas  
 Carbon oxides

- 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.
- Further information : Use water spray to cool fire exposed containers and fire affected zone until fire is out and danger of reignition has passed.  
 Do not use a solid water stream as it may scatter and spread fire.  
 Use a water spray to cool fully closed containers.  
 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 : Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.  
 Remove all sources of ignition.  
 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.

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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.  
 Wipe up with absorbent material (e.g. cloth, fleece).  
 Non-sparking tools should be used.  
 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).  
 Suppress (knock down) gases/vapors/mists with a water spray jet.  
 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.<br>Use only in an area equipped with explosion proof exhaust ventilation.   |
| Advice on safe handling     | : | Avoid formation of aerosol.<br>Non-sparking tools should be used.<br>Provide sufficient air exchange and/or exhaust in work rooms.<br>Open drum carefully as content may be under pressure.<br>Do not breathe vapors/dust.<br>Do not smoke.<br>Handle in accordance with good industrial hygiene and safety practice.<br>Smoking, eating and drinking should be prohibited in the application area.<br>Avoid inhalation of vapor or mist.<br>Do not swallow.<br>Do not get in eyes.<br>Avoid contact with skin and eyes.<br>Avoid prolonged or repeated contact with skin.<br>Keep container tightly closed.<br>Keep away from heat and sources of ignition.<br>Take precautionary measures against static discharges.<br>Take care to prevent spills, waste and minimize release to the environment. |
| Conditions for safe storage | : | Store in a closed container.<br>No smoking.<br>Containers which are opened must be carefully resealed and kept upright to prevent leakage.<br>Keep in properly labeled containers.<br>Keep tightly closed.<br>Store in accordance with the particular national regulations.   |
| Materials to avoid          | : | Strong oxidizing agents<br>Organic peroxides<br>Flammable solids<br>Pyrophoric liquids<br>Self-heating substances and mixtures<br>Substances and mixtures which in contact with water emit  |

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flammable gases  
Explosives  
Gases

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
Triclopyr Triethylamine Salt	57213-69-1	TWA	2 mg/m3	Dow IHG
ethanol	64-17-5	STEL	1,000 ppm	ACGIH
		TWA	1,000 ppm 1,900 mg/m3	OSHA Z-1
triethylamine	121-44-8	TWA	1 ppm	Dow IHG
		STEL	3 ppm	Dow IHG
		TWA	0.5 ppm	ACGIH
		STEL	1 ppm	ACGIH
		TWA	25 ppm 100 mg/m3	OSHA Z-1

**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 when prolonged or frequently repeated contact could occur. Examples of preferred glove barrier materials include: Butyl rubber. Natural rubber ("latex"). Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). Polyethylene. Ethyl vinyl alcohol laminate ("EVAL"). Polyvinyl chloride ("PVC" or "vinyl"). 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), poten-

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Eye protection : Use chemical goggles.  
Skin and body protection : Wear clean, body-covering clothing.

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### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Liquid.

Color : Pink to purple

Odor : Ammoniacal

Odor Threshold : No data available

pH : 9.54 (69.4 °F / 20.8 °C)  
Concentration: 10 %  
Method: pH Electrode

Melting point/range : Not applicable to liquids

Freezing point : No data available

Boiling point/boiling range : No data available

Flash point : 109 °F / 43 °C  
Method: Setaflash Closed Cup ASTM D3828, closed cup

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Flammability (liquids) : Not expected to be a static-accumulating flammable liquid.

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 : 1.1385 g/cm<sup>3</sup> (68 °F / 20 °C)  
Method: Digital density meter

Solubility(ies)  
Water solubility : Soluble

Autoignition temperature : No data available

Viscosity

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Viscosity, dynamic : 12.5 mPa.s (77 °F / 25 °C)

Explosive properties : No  
Method: Thermal  
GLP: yes

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.  
Vapors may form explosive mixture with air.  
May form explosive dust-air mixture.

Conditions to avoid : Heat, flames and sparks.

Incompatible materials : Acids

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:  
Nitrogen oxides (NO<sub>x</sub>)  
Hydrogen chloride gas  
Carbon oxides

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### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

##### Product:

Acute oral toxicity : LD50 (Rat, female): 4,100 mg/kg  
Method: OECD Test Guideline 425

Acute inhalation toxicity : LC50 (Rat, male and female): > 5.4 mg/l  
Exposure time: 4 h  
Test atmosphere: Mist  
Method: OECD Test Guideline 403  
Assessment: The substance or mixture has no acute inhalation toxicity

Symptoms: No deaths occurred at this concentration.  
Remarks: Maximum attainable concentration.

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



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**Components:****Triclopyr Triethylamine Salt:**

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 2.6 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 achievable concentration.

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

**ethanol:**

Acute oral toxicity : LD50 (Rat): > 7,000 mg/kg  
LDLo (human): 1,400 mg/kg

Acute inhalation toxicity : LC50 (Rat): 124.7 mg/l  
Exposure time: 4 h  
Test atmosphere: vapor

Acute dermal toxicity : LD50 (Rabbit): > 15,800 mg/kg

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

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation

**Components:****ethanol:**

Species : Rabbit  
Result : No skin irritation

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

Species : Rabbit  
Result : Eye irritation  
Method : OECD Test Guideline 405

**Components:****Triclopyr Triethylamine Salt:**

Result : Eye irritation

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**ethanol:**

Species : Rabbit  
Result : Eye irritation

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

Test Type : Local lymph node assay  
Species : Mouse  
Assessment : Does not cause skin sensitization.  
Method : OECD Test Guideline 429

**Components:****Triclopyr Triethylamine Salt:**

Remarks : Did not demonstrate the potential for contact allergy in mice.  
Remarks : For respiratory sensitization:  
No relevant data found.

**ethanol:**

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

**Germ cell mutagenicity****Components:****Triclopyr Triethylamine Salt:**

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

**ethanol:**

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

**Carcinogenicity****Components:****Triclopyr Triethylamine Salt:**

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

**ethanol:**

Carcinogenicity - Assessment : Animal testing did not show any carcinogenic effects., Ethanol when not consumed in an alcoholic beverage is not classifiable as a human carcinogen., Epidemiology studies provide evidence that drinking of alcoholic beverages (containing ethanol) is associated with cancer, and IARC has classified alcoholic beverages as carcinogenic to humans.



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**Components:****Triclopyr Triethylamine Salt:**

Target Organs : Kidney  
Assessment : May cause damage to organs through prolonged or repeated exposure.

**Repeated dose toxicity****Components:****Triclopyr Triethylamine Salt:**

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

**Aspiration toxicity****Product:**

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

**Components:****Triclopyr Triethylamine Salt:**

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

**ethanol:**

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)): 400 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203 or Equivalent  
  
LC50 (Lepomis macrochirus (Bluegill sunfish)): > 100 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (eastern oyster (Crassostrea virginica)): 56 - 87 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: Method Not Specified.  
  
LC50 (Daphnia magna (Water flea)): > 1,000 mg/l  
Exposure time: 48 h  
Test Type: static test

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Method: OECD Test Guideline 202 or Equivalent

Toxicity to algae/aquatic plants :

Remarks: Based on information for a similar material: Material is highly toxic to aquatic organisms on an acute basis (LC50/EC50 between 0.1 and 1 mg/L in the most sensitive species tested).

ErC50 (Pseudokirchneriella subcapitata (green algae)): 107 mg/l

End point: Growth rate inhibition

Exposure time: 72 h

Method: OECD Test Guideline 201 or Equivalent

ErC50 (blue-green alga Anabaena flos-aquae): > 100 mg/l

End point: Growth inhibition

Exposure time: 72 h

EC50 (Lemna gibba): > 100 mg/l

End point: Growth inhibition

Exposure time: 7 d

ErC50 (Myriophyllum spicatum): 0.241 mg/l

Exposure time: 14 d

Remarks: Based on information for a similar material:

NOEC (Myriophyllum spicatum): 0.0191 mg/l

Exposure time: 14 d

Remarks: Based on information for a similar material:

### Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

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

### Components:

#### Triclopyr Triethylamine Salt:

Toxicity to fish :

Remarks: For similar material(s):

Material is highly toxic to aquatic organisms on an acute basis (LC50/EC50 between 0.1 and 1 mg/L in the most sensitive species tested).

LC50 (Cyprinus carpio (Carp)): 350 mg/l

Exposure time: 96 h

LC50 (Lepomis macrochirus (Bluegill sunfish)): > 100 mg/l

Exposure time: 96 h

Test Type: semi-static test

Toxicity to daphnia and other aquatic invertebrates :

EC50 (eastern oyster (Crassostrea virginica)): 56 - 87 mg/l

Exposure time: 48 h

Test Type: static test

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EC50 (*Daphnia magna* (Water flea)): > 448 mg/l  
 Exposure time: 48 h  
 Test Type: static test

Toxicity to algae/aquatic plants : ErC50 (*Pseudokirchneriella subcapitata* (green algae)): 107 mg/l  
 End point: Growth rate inhibition  
 Exposure time: 72 h

ErC50 (blue-green alga *Anabaena flos-aquae*): > 100 mg/l  
 Exposure time: 72 h  
 Test Type: Growth inhibition

EC50 (*Lemna gibba*): > 1,000 mg/l  
 Exposure time: 7 d  
 Test Type: Growth inhibition

ErC50 (*Myriophyllum spicatum*): 0.241 mg/l  
 Exposure time: 14 d  
 Remarks: For similar material(s):

NOEC (*Myriophyllum spicatum*): 0.0191 mg/l  
 Exposure time: 14 d  
 Remarks: For similar material(s):

Toxicity to terrestrial organisms : Remarks: Material is practically non-toxic to birds on a dietary basis (LC50 > 5000 ppm)., Material is moderately toxic to birds on an acute basis (LD50 between 51 and 500 mg/kg).

oral LD50 (*Colinus virginianus* (Bobwhite quail)): 300 mg/kg bodyweight.

dietary LC50 (*Colinus virginianus* (Bobwhite quail)): 11622 mg/kg diet.

contact LD50 (*Apis mellifera* (bees)): > 100 µg/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.

**ethanol:**

Toxicity to fish : LC50 (*Oncorhynchus mykiss* (rainbow trout)): 11,200 - 13,000 mg/l  
 Exposure time: 96 h  
 Test Type: flow-through test  
 Method: Method Not Specified.

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 5,414 mg/l  
 Exposure time: 48 h  
 Method: OECD Test Guideline 202 or Equivalent

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Toxicity to algae/aquatic plants : EbC50 (Skeletonema costatum (marine diatom)): 10,943 - 11,619 mg/l  
End point: Biomass  
Exposure time: 5 d  
Method: OECD Test Guideline 201 or Equivalent

**Persistence and degradability****Components:****Triclopyr Triethylamine Salt:**

Biodegradability : Remarks: For similar active ingredient(s).  
Triclopyr.  
Biodegradation under aerobic static laboratory conditions is high (BOD20 or BOD28/ThOD > 40%).

Remarks: For similar active ingredient(s).  
Triclopyr.  
Based on stringent OECD test guidelines, this material cannot be considered as readily biodegradable; however, these results do not necessarily mean that the material is not biodegradable under environmental conditions.

**ethanol:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: > 70 %  
Exposure time: 5 d  
Method: OECD Test Guideline 301D or Equivalent  
Remarks: 10-day Window: Pass

ThOD : 2.08 kg/kg

Photodegradation : Test Type: Half-life (indirect photolysis)  
Sensitizer: OH radicals  
Rate constant: 3.58E-12 cm<sup>3</sup>/s  
Method: Estimated.

**Bioaccumulative potential****Components:****Triclopyr Triethylamine Salt:**

Partition coefficient: n-octanol/water : Remarks: For similar active ingredient(s).  
Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

**ethanol:**

Partition coefficient: n-octanol/water : log Pow: -0.31  
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:**

#### **Triclopyr Triethylamine Salt:**

Distribution among environmental compartments : Remarks: For similar active ingredient(s). Potential for mobility in soil is very high (Koc between 0 and 50).

### **ethanol:**

Distribution among environmental compartments : Koc: 1.0  
Method: Estimated.  
Remarks: Potential for mobility in soil is very high (Koc between 0 and 50).

### **Balance:**

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

### **Other adverse effects**

### **Components:**

#### **Triclopyr Triethylamine Salt:**

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.

### **ethanol:**

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

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 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 1993  
 Proper shipping name : FLAMMABLE LIQUID, N.O.S.  
 (Triclopyr Triethylamine Salt, Ethanol)  
 Class : 3  
 Packing group : III  
 Labels : 3

**IATA-DGR**

UN/ID No. : UN 1993  
 Proper shipping name : Flammable liquid, n.o.s.  
 (Triclopyr Triethylamine Salt, Ethanol)  
 Class : 3  
 Packing group : III  
 Labels : Flammable Liquids  
 Packing instruction (cargo aircraft) : 366  
 Packing instruction (passenger aircraft) : 355

**IMDG-Code**

UN number : UN 1993  
 Proper shipping name : FLAMMABLE LIQUID, N.O.S.  
 (Triclopyr Triethylamine Salt, Ethanol)  
 Class : 3  
 Packing group : III  
 Labels : 3  
 EmS Code : F-E, S-E  
 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.

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

UN/ID/NA number	:	UN 1993
Proper shipping name	:	Flammable liquids, n.o.s. (Triclopyr Triethylamine Salt, Ethanol)
Class	:	3
Packing group	:	III
Labels	:	FLAMMABLE LIQUID
ERG Code	:	128
Marine pollutant	:	no

**Further information**

For US Domestic transport, according to 49 CFR 173.150 f (1), A flammable liquid with a flash point at or above 38 °C (100 °F) that does not meet the definition of any other hazard class may be reclassified as a combustible liquid. This provision does not apply to transportation by vessel or aircraft, except where other means of transportation is impracticable., This product is only classified in containers over 119 gallons or 450 liters. Not regulated if shipped in packages less than or equal to 119 gallons (450 liters). If transporting by vessel or aircraft, unless other means of transportation is impracticable, the product must be shipped as a flammable liquid.

**Special precautions for user**

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

**SECTION 15. REGULATORY INFORMATION**

**SARA 311/312 Hazards** : Flammable (gases, aerosols, liquids, or solids)  
Specific target organ toxicity (single or repeated exposure)  
Serious eye damage or eye irritation

**SARA 313** : The following components are subject to reporting levels established by SARA Title III, Section 313:

Triclopyr Tri-ethylamine Salt	57213-69-1	>= 30 - < 50 %
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**US State Regulations****Pennsylvania Right To Know**

ethanol

64-17-5

**California Prop. 65**

WARNING: This product can expose you to chemicals including ethanol, ethylene oxide, propylene oxide, which is/are known to the State of California to cause cancer, and ethanol, 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.

# SAFETY DATA SHEET



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### 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 : 62719-215

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:

### DANGER

Corrosive

Causes irreversible eye damage

Harmful if swallowed or absorbed through skin

Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

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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)  
Dow IHG : Dow Industrial Hygiene Guideline  
OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants  
ACGIH / TWA : 8-hour, time-weighted average  
ACGIH / STEL : Short-term exposure limit  
Dow IHG / TWA : Time Weighted Average (TWA):  
Dow IHG / STEL : Short term exposure limit  
Dow IHG / TWA : Time weighted average  
OSHA Z-1 / TWA : 8-hour time weighted average

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 Dan-

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gerous 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; 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 : 02/11/2022

Product code: XRM-3724

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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