

SAFETY DATA SHEET

according to the Hazardous Products Regulations



CLEARVIEW™ Herbicide

Version 1.0 Revision Date: 02/28/2025 SDS Number: 800080004326 Date of last issue: -
Date of first issue: 02/28/2025

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 Canada and may not meet the regulatory requirements in other countries.

SECTION 1. IDENTIFICATION

Product name : CLEARVIEW™ Herbicide
Other means of identification : No data available

Manufacturer or supplier's details

COMPANY IDENTIFICATION

Manufacturer/importer : CORTEVA AGRISCIENCE CANADA COMPANY
SUITE 240, 115 QUARRY PARK RD. SE
CALGARY AB, T2C 5G9
CANADA

Customer Information Number : 800-667-3852
E-mail address : solutions@corteva.com

Emergency telephone number : Corteva Canada Solutions: 1-800-667-3852

Recommended use of the chemical and restrictions on use

Recommended use : End use herbicide product

SECTION 2. HAZARDS IDENTIFICATION

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	Common Name/Synonym	CAS-No.	Concentration (% w/w)
Aminopyralid Potassium	Aminopyralid Potassium	566191-87-5	52.5
metsulfuron-methyl (ISO)	metsulfuron-methyl (ISO)	74223-64-6	9.45
sodium carbonate	sodium carbonate	497-19-8	>= 5 - < 10 *
Kaolin	Kaolin	1332-58-7	>= 5 - < 10 *
Sodium lignosulfonate, sulfomethylated	Sodium lignosulfonate, sulfomethylated	68512-34-5	>= 1 - < 5 *
Sodium alkylnaphthalenesulfonate	Sodium alkylnaphthalenesulfonate	Not Assigned	>= 1 - < 5 *
Picloram	Picloram	1918-02-1	>= 0.5 - < 1.5 *
Quartz	Quartz	14808-60-7	>= 0.1 - < 1 *
Balance	Balance	Not Assigned	> 5

* Actual concentration or concentration range 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. 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 : 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 : May cause injury due to mechanical action. 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. FIREFIGHTING 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:
Nitrogen oxides (NOx)
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. Use water spray to cool unopened containers.

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- 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 firefighters : Wear self-contained breathing apparatus for firefighting if necessary.
Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Avoid dust formation.
Avoid breathing dust.
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.
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 : Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in.
Pick up and arrange disposal without creating dust.
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.
Neutralise with acid.
Sweep up or vacuum up spillage and collect in suitable container for disposal.
See Section 13, Disposal Considerations, for additional information.

SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Handle in accordance with good industrial hygiene and safety practice.
Smoking, eating and drinking should be prohibited in the application area.
Do not get in eyes.
Avoid contact with skin and eyes.
Avoid prolonged or repeated contact with skin.
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.

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Materials to avoid : Keep in properly labelled containers.
Store in accordance with the particular national regulations.
: Strong oxidizing agents

Packaging material : Unsuitable material: None known.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
sodium carbonate	497-19-8	TWA (Inhalable fraction)	10 mg/m3	Corteva OEL
		TWA (Respirable fraction)	3 mg/m3	Corteva OEL
Kaolin	1332-58-7	TWA (Respirable)	2 mg/m3	CA AB OEL
		TWA (Respirable)	2 mg/m3	CA BC OEL
		TWAEV (respirable dust)	2 mg/m3	CA QC OEL
		TWA (Respirable particulate matter)	2 mg/m3	ACGIH
Picloram	1918-02-1	TWA	10 mg/m3	CA AB OEL
		TWA (Total dust)	10 mg/m3	CA BC OEL
		TWA (respirable dust fraction)	3 mg/m3	CA BC OEL
		TWAEV	10 mg/m3	CA QC OEL
		TWA	10 mg/m3	ACGIH
Quartz	14808-60-7	TWA (Respirable particulates)	0.025 mg/m3	CA AB OEL
		TWA (Respirable fraction)	0.1 mg/m3	CA ON OEL
		TWA (Respirable)	0.025 mg/m3 (Silica)	CA BC OEL
		TWAEV (respirable dust)	0.05 mg/m3	CA QC OEL
		TWA (Respirable particulate matter)	0.025 mg/m3 (Silica)	ACGIH

Engineering measures : Use engineering controls to maintain airborne level below exposure limit requirements or guidelines.
If there are no applicable exposure limit requirements or guidelines, use only with adequate ventilation.
Local exhaust ventilation may be necessary for some operations.

Personal protective equipment

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- 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, use an approved respirator. Selection of air-purifying or positive-pressure supplied-air will depend on the specific operation and the potential airborne concentration of the material. For emergency conditions, use an approved positive-pressure self-contained breathing apparatus.
- Hand protection
Remarks : Use gloves chemically resistant to this material. Examples of preferred glove barrier materials include: Polyvinyl chloride ("PVC" or "vinyl"). Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). 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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : Granules.
- Colour : Brown
- Odour : Mild
- Odour Threshold : No data available
- pH : 10.3 (23.6 °C)
Concentration: 1 %
Method: pH Electrode
(1% dispersion)
- Melting point/ range : No data available
- Freezing point : Not applicable
- Boiling point/boiling range : Not applicable
- Flash point : Not applicable to solids
- Evaporation rate : Not applicable
- Flammability (solid, gas) : No data available
- Upper explosion limit / Upper flammability limit : Not applicable
- Lower explosion limit / Lower flammability limit : Not applicable

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Vapour pressure : Not applicable

Relative vapour density : Not applicable

Density : Not applicable

Bulk density : 0.0007 kg/m³ (22.8 °C)
Method: Literature

Solubility(ies)
Water solubility : No data available

Partition coefficient: n-octanol/water : No data available.

Auto-ignition temperature : Not applicable

Viscosity
Viscosity, dynamic : Not applicable

Explosive properties : No data available

Oxidizing properties : No data available

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 : 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_x)
Hydrogen chloride gas
Carbon oxides

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

Acute oral toxicity : LD50 (Rat, female): > 5,000 mg/kg
Method: OECD Test Guideline 425
Remarks: Information source: Internal study report

Acute inhalation toxicity : LC50 (Rat, male and female): > 5.09 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
Assessment: The substance or mixture has no acute inhalation toxicity
Remarks: Information source: Internal study report

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

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Remarks: Information source: Internal study report

Components:

Aminopyralid Potassium:

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

Acute inhalation toxicity : Remarks: No adverse effects are anticipated from single exposure to dust.
Based on the available data, respiratory irritation was not observed.

LC50 (Rat): > 5.10 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

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

metsulfuron-methyl (ISO):

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

Acute inhalation toxicity : Remarks: No adverse effects are anticipated from single exposure to dust.
Prolonged exposure is not expected to cause adverse effects.

LC50 (Rat, male and female): > 5 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Assessment: The substance or mixture has no acute inhalation toxicity

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

sodium carbonate:

Acute oral toxicity : LD50 (Rat, male and female): 2,800 mg/kg

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

Kaolin:

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

Sodium lignosulfonate, sulfomethylated:

Acute oral toxicity : LD50 (Rat, female): > 2,000 mg/kg
Assessment: The substance or mixture has no acute oral toxicity
Remarks: For similar material(s):

Sodium alkylnaphthalenesulfonate:

Acute oral toxicity : LD50 (Rat): > 2,000 - 5,000 mg/kg
Method: OECD Test Guideline 401

Picloram:

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

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Remarks: Signs and symptoms of excessive exposure may include:
Convulsions.

LD50 (Rat, female): 4,012 mg/kg

Acute inhalation toxicity : LC50 (Rat, male and female): > 0.035 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
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): > 2,000 mg/kg
Assessment: The substance or mixture has no acute dermal toxicity

Skin corrosion/irritation

Product:

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation
Remarks : Information source: Internal study report

Components:

sodium carbonate:

Result : No skin irritation

Kaolin:

Species : Rabbit
Result : No skin irritation

Sodium alkylnaphthalenesulfonate:

Species : Rabbit
Method : OECD Test Guideline 404
Result : Skin irritation

Quartz:

Result : No skin irritation

Serious eye damage/eye irritation

Product:

Species : Rabbit
Result : Mild eye irritation
Method : OECD Test Guideline 405
Remarks : Information source: Internal study report

Components:

sodium carbonate:

Result : Eye irritation

Kaolin:

Species : Rabbit
Result : No eye irritation

Sodium lignosulfonate, sulfomethylated:

Species : Rabbit

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Result : Eye irritation

Sodium alkylnaphthalenesulfonate:

Species : Rabbit
Result : Corrosive
Method : OECD Test Guideline 437

Quartz:

Result : No eye irritation

Respiratory or skin sensitisation

Product:

Test Type : Buehler Test
Species : Guinea pig
Method : OECD Test Guideline 406
Result : Does not cause skin sensitisation.
Remarks : Information source: Internal study report

Components:

Aminopyralid Potassium:

Species : Guinea pig
Result : Does not cause skin sensitisation.

metsulfuron-methyl (ISO):

Species : Guinea pig
Result : Does not cause skin sensitisation.

Picloram:

Species : Guinea pig
Result : Does not cause skin sensitisation.

Germ cell mutagenicity

Components:

Aminopyralid Potassium:

Germ cell mutagenicity - Assessment : For similar active ingredient(s), Aminopyralid., In vitro genetic toxicity studies were predominantly negative., Animal genetic toxicity studies were negative.

metsulfuron-methyl (ISO):

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

sodium carbonate:

Germ cell mutagenicity - Assessment : No relevant data found.

Picloram:

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

Quartz:

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

Carcinogenicity

Product:

Carcinogenicity - Assessment : Animal testing did not show any carcinogenic effects.

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Components:

Aminopyralid Potassium:

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

metsulfuron-methyl (ISO):

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

Kaolin:

Carcinogenicity - Assessment : Animal testing did not show any carcinogenic effects.

Picloram:

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

Quartz:

Carcinogenicity - Assessment : Has caused cancer in humans., Has caused cancer in laboratory animals., Human carcinogen.

Reproductive toxicity

Components:

Aminopyralid Potassium:

Reproductive toxicity - Assessment : For similar active ingredient(s)., Aminopyralid., In animal studies, did not interfere with reproduction.
For similar active ingredient(s)., Aminopyralid., Did not cause birth defects or other effects in the fetus even at doses which caused toxic effects in the mother.

metsulfuron-methyl (ISO):

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

sodium carbonate:

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

Picloram:

Reproductive toxicity - Assessment : In animal studies, did not interfere with reproduction.
Did not cause birth defects or other effects in the fetus even at doses which caused toxic effects in the mother.

Quartz:

Reproductive toxicity - Assessment : For similar material(s)., 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:

Aminopyralid Potassium:

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

metsulfuron-methyl (ISO):

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

sodium carbonate:

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

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- Kaolin:**
Assessment : Evaluation of available data suggests that this material is not an STOT-SE toxicant.
- Sodium alkylnaphthalenesulfonate:**
Assessment : Evaluation of available data suggests that this material is not an STOT-SE toxicant.
- Quartz:**
Assessment : Evaluation of available data suggests that this material is not an STOT-SE toxicant.
- STOT - repeated exposure**
Product:
Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
- Components:**
Quartz:
Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.
- Repeated dose toxicity**
Components:
Aminopyralid Potassium:
Remarks : For similar active ingredient(s).
Aminopyralid.
In animals, effects have been reported on the following organs:
Gastrointestinal tract.
- metsulfuron-methyl (ISO):**
Remarks : Based on available data, repeated exposures are not anticipated to cause significant adverse effects.
- sodium carbonate:**
Remarks : No relevant data found.
- Kaolin:**
Remarks : Repeated excessive exposure to crystalline silica may cause silicosis, a progressive and disabling disease of the lungs.
- Sodium lignosulfonate, sulfomethylated:**
Remarks : For similar material(s):
Based on available data, repeated exposures are not anticipated to cause significant adverse effects.
- Picloram:**
Remarks : In animals, effects have been reported on the following organs:
Liver.
Gastrointestinal tract.
- Quartz:**
Remarks : In humans, effects have been reported on the following organs:
Kidney.
Repeated excessive exposure to crystalline silica may cause silicosis, a progressive and disabling disease of the lungs.
- Aspiration toxicity**
Product:
Based on physical properties, not likely to be an aspiration hazard.

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Components:

Aminopyralid Potassium:

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

metsulfuron-methyl (ISO):

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

sodium carbonate:

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

Kaolin:

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

Sodium lignosulfonate, sulfomethylated:

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

Sodium alkylnaphthalenesulfonate:

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

Picloram:

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

Quartz:

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

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

- | | | |
|---|---|---|
| Toxicity to fish | : | LC50 (Oncorhynchus mykiss (rainbow trout)): > 120 mg/l
Exposure time: 96 h
Test Type: semi-static test
Method: OECD Test Guideline 203 or Equivalent
Remarks: Information source: Internal study report |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): > 120 mg/l
Exposure time: 48 h
Test Type: semi-static test
Method: OECD Test Guideline 202 or Equivalent
Remarks: Information source: Internal study report |
| Toxicity to algae/aquatic plants | : | EC50 (Pseudokirchneriella subcapitata (green algae)): 17.58 mg/l
End point: Growth rate inhibition
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201 or Equivalent
Remarks: Information source: Internal study report |
| Toxicity to soil dwelling organisms | : | LC50 (Eisenia fetida (earthworms)): 2,000 mg/kg
Exposure time: 14 d
End point: survival
Method: OECD Test Guideline 207
GLP: yes
Remarks: Information source: Internal study report |

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Toxicity to terrestrial organisms : oral LD50 (*Colinus virginianus* (Bobwhite quail)): > 2,250 mg/kg
Method: OPPTS 850.2100
Remarks: Information source: Internal study report

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Components:

Aminopyralid Potassium:

Toxicity to fish : Remarks: For similar active ingredient(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 (*Oncorhynchus mykiss* (rainbow trout)): > 100 mg/l
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 203 or Equivalent

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

Toxicity to algae/aquatic plants : ErC50 (Algae): 100 mg/l
Exposure time: 72 h

ErC50 (*Myriophyllum spicatum*): 0.363 mg/l
Exposure time: 14 d
Remarks: For similar material(s):

NOEC (*Myriophyllum spicatum*): 0.0639 mg/l
Exposure time: 14 d
Remarks: For similar material(s):

Toxicity to terrestrial organisms : Remarks: Material is practically non-toxic to birds on an acute basis (LD50 > 2000 mg/kg)., Material is slightly toxic to birds on a dietary basis (LC50 between 1001 and 5000 ppm).

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

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

metsulfuron-methyl (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)): > 150 mg/l
Exposure time: 96 h
Method: Method Not Specified.

LC50 (*Lepomis macrochirus* (Bluegill sunfish)): > 150 mg/l
Exposure time: 96 h
Method: Method Not Specified.

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- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 120 mg/l
Exposure time: 48 h
Method: Method Not Specified.
- Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): 0.157 mg/l
End point: Growth rate inhibition
Exposure time: 72 h
Method: Method Not Specified.
- ErC50 (Lemna gibba): 0.00036 mg/l
Exposure time: 14 d
- 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 (Anas platyrhynchos (Mallard duck)): > 2510 mg/kg bodyweight.
- dietary LC50 (Anas platyrhynchos (Mallard duck)): > 5620 mg/kg diet.
Exposure time: 8 d
- oral LD50 (Apis mellifera (bees)): > 44.3 µg/bee
- contact LD50 (Apis mellifera (bees)): > 50 µg/bee
- sodium carbonate:**
- Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 300 mg/l
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna): 265 mg/l
Exposure time: 48 h
Test Type: static test
Method: Method Not Specified.
- EC50 (Daphnia magna (Water flea)): 390 mg/l
Exposure time: 48 h
Test Type: Immobilization
Method: Method Not Specified.
- Sodium alkylnaphthalenesulfonate:**
- Toxicity to fish : 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
- Picloram:**
- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 8.8 mg/l
Exposure time: 96 h
Test Type: static test

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- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 44.2 mg/l
Exposure time: 48 h
- Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): > 78.7 mg/l
End point: Growth rate inhibition
Exposure time: 72 h
- EC50 (Lemna gibba): 102 mg/l
Exposure time: 14 d
Test Type: Growth inhibition
- ErC50 (Myriophyllum spicatum): 0.558 mg/l
Exposure time: 14 d
- NOEC (Myriophyllum spicatum): 0.0095 mg/l
Exposure time: 14 d
- M-Factor (Acute aquatic toxicity) : 1
- Toxicity to fish (Chronic toxicity) : (Rainbow trout (Oncorhynchus mykiss)): 0.55 mg/l
Exposure time: 70 d
Test Type: flow-through test
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 6.79 mg/l
End point: number of offspring
Exposure time: 21 d
Test Type: static test
- LOEC (Daphnia magna (Water flea)): 13.5 mg/l
End point: number of offspring
Exposure time: 21 d
Test Type: static test
- MATC (Maximum Acceptable Toxicant Level) (Daphnia magna (Water flea)): 9.57 mg/l
End point: number of offspring
Exposure time: 21 d
Test Type: static test
- M-Factor (Chronic aquatic toxicity) : 10
- Toxicity to microorganisms : EC50 (activated sludge): > 100 mg/l
Exposure time: 3 h
- Toxicity to soil dwelling organisms : LC50 (Eisenia fetida (earthworms)): > 5,000 mg/kg
Exposure time: 14 d
End point: survival
- Toxicity to terrestrial organisms : oral LD50 (Anas platyrhynchos (Mallard duck)): > 2510 mg/kg bodyweight.
Exposure time: 14 d
- dietary LC50 (Anas platyrhynchos (Mallard duck)): > 5000 mg/kg diet.
- contact LD50 (Apis mellifera (bees)): > 100 micrograms/bee

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Exposure time: 48 h

oral LD50 (Apis mellifera (bees)): > 74 micrograms/bee
Exposure time: 48 d

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

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

Quartz:

Toxicity to fish : Remarks: Not expected to be acutely toxic to aquatic organisms.

Ecotoxicology Assessment

Acute aquatic toxicity : This product has no known ecotoxicological effects.

Persistence and degradability

Components:

Aminopyralid Potassium:

Biodegradability : Result: Not biodegradable
Biodegradation: 0 %
Exposure time: 28 d
Method: OECD Test Guideline 301F or Equivalent
Remarks: For similar active ingredient(s).
Aminopyralid.

metsulfuron-methyl (ISO):

Biodegradability : Result: Not biodegradable

sodium carbonate:

Biodegradability : Remarks: Biodegradation is not applicable.

Sodium lignosulfonate, sulfomethylated:

Biodegradability : Result: Not biodegradable

Sodium alkylnaphthalenesulfonate:

Biodegradability : Result: Not biodegradable
Method: OECD Test Guideline 301D

Picloram:

Biodegradability : Result: Not biodegradable
Biodegradation: 1.95 %
Exposure time: 28 d
Method: OECD Test Guideline 301
Remarks: 10-day Window: Fail

Stability in water : Test Type: Hydrolysis
Degradation half life (half-life): > 1.8 yr (45 °C) pH: 5 - 9
Method: Measured

Photodegradation : Test Type: Half-life (direct photolysis)

Test Type: Half-life (indirect photolysis)
Sensitiser: OH radicals
Concentration: 1,500,000 1/cm³
Rate constant: 8.5E-13 cm³/s

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Quartz:

Biodegradability : Remarks: Biodegradation is not applicable.

Bioaccumulative potential

Components:

Aminopyralid Potassium:

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

metsulfuron-methyl (ISO):

Partition coefficient: n-octanol/water : log Pow: 0.18
Remarks: Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

sodium carbonate:

Partition coefficient: n-octanol/water : Remarks: Partitioning from water to n-octanol is not applicable.

Sodium lignosulfonate, sulfomethylated:

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

Sodium alkylnaphthalenesulfonate:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: -3.3 (20 °C)

Picloram:

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)
Bioconcentration factor (BCF): 0.54

Partition coefficient: n-octanol/water : log Pow: -1.92
Remarks: Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

Quartz:

Partition coefficient: n-octanol/water : Remarks: Partitioning from water to n-octanol is not applicable.

Balance:

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

Mobility in soil

Components:

Aminopyralid Potassium:

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

metsulfuron-methyl (ISO):

Distribution among environmental compartments : Remarks: No data available.

sodium carbonate:

Distribution among environmental compartments : Remarks: Relevant data not available.

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Sodium lignosulfonate, sulfomethylated:

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

Picloram:

Distribution among environmental compartments : Koc: 35
Remarks: Potential for mobility in soil is very high (Koc between 0 and 50).

Stability in soil : Test Type: aerobic degradation
Dissipation time: 167 - 513 h
Method: Measured
Test Type: anaerobic degradation
Dissipation time: > 300 h
Method: Measured

Quartz:

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

Balance:

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

Other adverse effects

Components:

Aminopyralid Potassium:

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.

metsulfuron-methyl (ISO):

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

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

sodium carbonate:

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.

Kaolin:

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.

Sodium lignosulfonate, sulfomethylated:

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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Sodium alkylnaphthalenesulfonate:

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

Picloram:

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.

Quartz:

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.

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.

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 3077
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(Metsulfuron-methyl, Aminopyralid Potassium)
Class : 9
Packing group : III
Labels : 9
Environmentally hazardous : yes

IATA-DGR

UN/ID No. : UN 3077
Proper shipping name : Environmentally hazardous substance, solid, n.o.s.

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(Metsulfuron-methyl, Aminopyralid Potassium)

Class : 9
Packing group : III
Labels : Miscellaneous
Packing instruction (cargo aircraft) : 956
Packing instruction (passenger aircraft) : 956

IMDG-Code
UN number : UN 3077
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(Metsulfuron-methyl, Aminopyralid Potassium)

Class : 9
Packing group : III
Labels : 9
EmS Code : F-A, S-F
Marine pollutant : yes(Metsulfuron-methyl, Aminopyralid Potassium)
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.

National Regulations

TDG
UN number : UN 3077
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(Metsulfuron-methyl, Aminopyralid Potassium)

Class : 9
Packing group : III
Labels : 9
ERG Code : 171
Marine pollutant : yes(Metsulfuron-methyl, Aminopyralid Potassium)

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 5 L 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.

For Canadian Ground transportation TDG Exemption: 1.45.1 Marine Pollutants (Part 3, Documentation, and Part 4, Dangerous Goods Safety Marks, do not apply if they are in transport solely on land by road vehicle or railway vehicle).

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

The components of this product are reported in the following inventories:

DSL : This product contains components that are not listed on the Canadian DSL nor NDSL.

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Pest Control Products Act (PCPA) Registration Number : 29752

Read the PCPA label, authorized under the Pest Control Products Act, prior to using or handling this pest control product.

This chemical is a pest control product registered by Health Canada Pest Management Regulatory Agency and is subject to certain labelling requirements under the Pest Control Products Act (PCPA). There are Canada-specific environmental requirements for handling, use, and disposal of this pest control product that are indicated on the label. These requirements differ from the classification criteria and hazard information required for GHS-consistent safety data sheets. Following is the hazard information required on the pest control products label:

PCPA Label Hazard Communications:

Read the label and booklet before using. Keep out of reach of children.

CAUTION EYE IRRITANT

Allergens Contained in the Pest Control Product: Warning, contains the allergen sulfites
TOXIC to terrestrial and aquatic plants.

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)
CA AB OEL	:	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
CA BC OEL	:	Canada. British Columbia OEL
CA ON OEL	:	Ontario Table of Occupational Exposure Limits made under the Occupational Health and Safety Act.
CA QC OEL	:	Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
Corteva OEL	:	Corteva Occupational Exposure Limit
ACGIH / TWA	:	8-hour, time-weighted average
CA AB OEL / TWA	:	8-hour Occupational exposure limit
CA BC OEL / TWA	:	8-hour time weighted average
CA ON OEL / TWA	:	Time-Weighted Average Limit (TWA)
CA QC OEL / TWAEV	:	Time-weighted average exposure value
Corteva OEL / TWA	:	8-hr TWA

ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; ASTM - American Society for the Testing of Materials; ECx - Concentration associated with x% response; EmS - Emergency Schedule; ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; 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; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; 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; n.o.s. - not otherwise specified; NOEC - Non-Observed Effective Concentration; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; (Q)SAR - (Quantitative) Structure Activity Relationship; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SDS - Safety Data Sheet; UN - United Nations.

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DSL - Domestic substances List. WHMIS - Workplace Hazardous Materials Information System.

Revision Date : 02/28/2025
Date format : mm/dd/yyyy

Product code: GF-2050

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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