

SAFETY DATA SHEET

1. Identification

Product identifier WinField® Glufosinate 150

Other means of identification REGISTRATION NO. 35314 PEST CONTROL PRODUCTS ACT

Recommended use Crop protection, Herbicide

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufactured For Winfield Solutions, LLC P.O. Box 64589 St. Paul, MN 55164-0589 UNITED STATES

Initial Supplier WinField United Canada, ULC 101-302 Wellman Lane Saskatoon, SK S7T-0JI, CANADA

Emergency phone numbers FOR MEDICAL EMERGENCY: 1-877-424-7452 (24 hrs)

FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT, CALL:

CHEMTREC 1-800-424-9300 (24 hrs)

Non-Emergency Business Inquiries 1-888-875-4769 Mon – Fri 8am – 5pm (Central Standard Time)

2. Hazard identification

Physical hazards Not classified.

Health hazards Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 1
Specific target organ toxicity following Category 2

repeated exposure

Environmental hazards

Label elements

Not classified.



Signal word Warning

Hazard statement May cause damage to organs through prolonged or repeated exposure.

Precautionary statement

Prevention Do not breathe mist or vapour.

Response Get medical attention if you feel unwell.

Storage Store away from incompatible materials.

Disposal Dispose of container in accordance with local, regional, national and international regulations.

Other hazards None known.

3. Composition/information on ingredients

Mixtures

Chemical name

Common name and synonyms

CAS number

Glufosinat Ammonium (iso); Ammonium-2- 77182-82-2 150 g/L amino-4-(hydroxymet hylphosphinyl)butyrat

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

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4. First-aid measures

Inhalation IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then

give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or

doctor for further treatment advice.

Skin contact IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of

water for 15-20 minutes. Call a poison control centre or doctor for treatment advice.

Eye contact IF IN EYES: Hold eye 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 eye. Call a poison control

center or doctor for treatment advice.

Ingestion 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 a

poison control center or doctor. Do not give anything by mouth to an unconscious person.

Most important

symptoms/effects, acute and delaved

Indication of immediate medical attention and special treatment needed

General information

Prolonged exposure may cause chronic effects.

Symptoms may be delayed. Treat patient symptomatically. If this product is ingested, endotracheal intubation and gastric lavage should be performed as soon as possible, followed by charcoal and

sodium sulfate administration.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention. If you feel unwell, seek medical advice (show the label where possible). Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and

Self-contained breathing apparatus and full protective clothing must be worn in

Use standard firefighting procedures and consider the hazards of other involved

skin. Keep out of reach of children.

5. Fire-fighting measures

Suitable extinguishing media Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

case of fire.

materials.

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical During fire, gases hazardous to health may be formed.

Special protective equipment and

precautions for firefighters

Fire fighting equipment/instructions Move containers from fire area if you can do so without risk.

Specific methods

General fire hazards No unusual fire or explosion hazards noted.

Flammable properties None known.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapour. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.





Environmental precautions

Avoid discharge into drains, water courses or onto the ground. Do not discharge into lakes, streams,

ponds or public waters.

7. Handling and storage

Precautions for safe handling

NOTICE TO USER: This pest control product is to be used only in accordance with the directions on the label. It is an offence under the Pest Control Products Act to use this product in a way that is inconsistent with the directions on the label. Avoid contact with eyes, skin and clothing. Avoid breathing vapours or mists. Do not taste or swallow. Use good industrial hygiene practices in handling this material. Provide adequate ventilation. Wear appropriate personal protective equipment. When using do not eat or drink, Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Keep out of reach of children. DO NOT store product below freezing. If stored for 1 year or longer, shake well before using. Store the tightly closed container away from feeds, seeds, fertilizers, plants and foodstuffs. Do not use or store in or around the home. Keep in original container during storage. To prevent contamination, store this product away from food or feed.

8. Exposure controls/Personal protection

Occupational exposure limits

No exposure limits noted for ingredient(s).

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Ensure adequate ventilation.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields.

Skin protection

Hand protection Wear appropriate chemical resistant gloves.

Other

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Respiratory protection

Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.

Respirator should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134), CAN/CSA-Z94.4 and ANSI's standard for respiratory protection (Z88.2).

Thermal hazards

Not applicable.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. When using do not eat or drink.

9. Physical and chemical properties

Appearance Stable homogeneous blue liquid

Physical stateLiquid.FormLiquid.ColourBlue

Odour Slightly pungent odour

Odour thresholdNot available.pH7.3 (25 °C)Melting point/freezing pointNot available.

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Initial boiling point and boiling rangeNot available.Flash pointNot available.Evaporation rateNot available.Flammability (solid, gas)Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower (%)

Flammability limit - upper (%)

Explosive limit - lower (%)

Explosive limit - upper (%)

Not available.

Not available.

Vapour pressure

Vapour density

Relative density

Not available.

Not available.

Not available.

Solubility(ies)

Solubility (water)

Partition coefficient (n-octanol/water)

Auto-ignition temperature

Decomposition temperature

Viscosity

Not available.

Not available.

Not available.

Other information

Explosive propertiesNot explosive. **Oxidising properties**Not oxidising.

10. Stability and reactivity

ReactivityThe product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Do not

mix with other chemicals.

Incompatible materials Strong oxidising agents. Acids. Bases.

Hazardous decomposition

products

May include and are not limited to: Oxides of carbon. Oxides of nitrogen. Oxides of sulphur.

Oxides of phosphorus. Ammonia

11. Toxicological information

Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful.

Skin contact Prolonged or repeated contact may dry skin and cause irritation.

Eye contactDirect contact with eyes may cause temporary irritation. **Ingestion**May cause stomach distress, nausea or vomiting.

Symptoms related to the physical,

chemical and toxicological

characteristics

Direct contact with eyes may cause temporary irritation.

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Information on toxicological effects

Acute toxicity Not known.

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Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Exposure minutesNot available.Erythema valueNot available.Oedema valueNot available.

Serious eye damage/eye irritation Direct contact with eyes may cause temporary irritation.

Corneal opacity value

Iris lesion value

Conjunctival reddening value

Conjunctival oedema value

Recover days

Not available.

Not available.

Not available.

Respiratory or skin sensitisation

Respiratory sensitisation Not a respiratory sensitizer.

Skin sensitisation This product is not expected to cause skin sensitisation.

Germ cell mutagenicityNo data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity See below.

Reproductive toxicityThis product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard Not an aspiration hazard.

Chronic effects May cause damage to organs through prolonged or repeated exposure.

Further information Not available.

12. Ecological information

Ecotoxicity See below

Persistence and degradability No data is

Bioaccumulative potential

No data is available on the degradability of any ingredients in the mixture.

Mobility in soilNo data available.Mobility in generalNot available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructionsRECYCLABLE CONTAINER DISPOSAL (less than 23 litres): Do not reuse this container for any

purpose. This is a recyclable container, and is to be disposed of at a container collection site.

Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site: Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank. Make the empty, rinsed container unsuitable for further use. If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

RETURNABLE CONTAINER DISPOSAL: Do not reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer). REFILLABLE CONTAINER DISPOSAL: For disposal, this empty container may be returned to the point of

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purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. Do not reuse this container for any other purpose.

DISPOSAL OF UNUSED, UNWANTED PRODUCT: For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for cleanup of spills. DISPOSAL OF UNUSED SPRAY SOLUTION: If any spray solution remains in the tank after spraying is finished, it should be sprayed on the perimeter of the area just sprayed, away from water supplies, ditches, and irrigation canals.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal

instructions).

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

General

Canada: TDG Proof of Classification: Classification Method: Classified as per Part 2, Sections 2.1 – 2.8 of the Transportation of Dangerous Goods Regulations. If applicable, the technical name and the classification of the product will appear below.

Transportation of Dangerous Goods (TDG - Canada)

Not regulated as dangerous goods.

15. Regulatory information

Canadian federal regulations

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.

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 product label:

WARNING: SKIN AND EYE IRRITANT PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN. Harmful or fatal if absorbed through the skin. Harmful if swallowed. Causes eye irritation. DO NOT get in eyes, on skin or on clothing. Avoid breathing spray mist. Wash thoroughly after using and before eating, drinking or smoking.

PROTECTIVE CLOTHING AND EQUIPMENT: Wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes, and protective eyewear (goggles or face shield) during mixing, loading, application, clean-up and repair. Gloves and protective eyewear (goggles or face shield) are not required during application within a closed cab and/or cockpit. If used in a tank mix, follow the most protective PPE directions of the products used.

RE-ENTRY RESTRICTION: Workers should not enter treated fields within 24 hours of treatment. Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours.

Apply only to agricultural crops when the potential for drift to areas of human habitation and areas of human activity such as houses, cottages, schools and recreational areas is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings.

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No



Export Control List (CEPA 1999, Schedule 3)

Not listed.

Greenhouse Gases

Not listed.

Precursor Control Regulations

Not regulated.

WHMIS status Exempt

International regulations

Inventory status

Country(s) or region Inventory name On inventory (yes/no)*

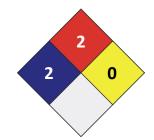
Canada Domestic Substances List (DSL)

Canada Non-Domestic Substances List (NDSL) No

16. Other information

| LEGEND | |
|----------|---|
| Severe | 4 |
| Serious | 3 |
| Moderate | 2 |
| Slight | 1 |
| Minimal | 0 |





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Other information

For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document.

Disclaimer

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Prepared by

Dell Tech Laboratories Ltd. Phone: (519) 858-5021

^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)