

SAFETY DATA SHEET

Blative 200 SL

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Product Name: Blative 200 SL
Other identifier: Glufosinate-ammonium 200 g/l SL
Pesticide Classification: Herbicide
Restrictions on use: Agriculture

Supplier

Enviro Bio-Chem (Pty) Ltd
 Co. Reg. No.: 2013/194774/07
 44 Kerk Street, Lichtenburg
 North West, South Africa 2740

Registration Holder

Enviro Bio-Chem (Pty) Ltd
 Co. Reg. No.: 2013/194774/07
 44 Kerk Street, Lichtenburg
 North West, South Africa 2740

Telephone: +27 12 006 0063
Fax: 086 541 7948
Website: www.envirobiochem.co.za

24 Hr Emergency Number: Spillage: 0861 000 366

In case of Poisoning:

Griffon Poison Information Centre: +27 82 446 8946
 Tygerberg Hospital: (+27 21) 931 6129
 Poison Emergency Enquiries: (+27 21) 689 5227

2. HAZARD IDENTIFICATION

UN GHS, Regulation EC 1272/2008 [EU-GHS/CLP] EU & SANS 10234:2008		
Hazard classes	Hazard categories	Hazard statements
Acute toxicity inhalation	Category 4	H332
Reproduction toxicity	Category 1B	H360Fd
STOT RE	Category 2	H373
Aquatic Toxicity Acute	Category 2	H401

The most important adverse effects:

The most important adverse physiochemical effects: None Known.

The most important adverse human health effects: Harmful if inhaled. May damage unborn child. May cause damage to organs through prolonged or repeated exposure

Label elements:



Signal word: Danger

Hazard statements:

H332: Harmful if inhaled.
 H360Fd: May damage fertility or the unborn child.
 H373: May cause damage to organs through prolonged or repeated exposure.

H401: Toxic to aquatic life.

Precautionary statements:

P102: Keep out of reach of children.

P103: Read label before use.

P260: Do not breathe mist, vapours and spray.

P264: Wash hands, forearms, and face thoroughly after handling.

P270: Do not eat, drink, or smoke when using this product.

P280: Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.

P271: Use only outdoors or in a well-ventilated area.

P202: Do not handle until all safety precautions have been read and understood.

P308+P313: IF exposed or concerned: Get medical advice/attention.

P405: Store locked up.

P501: Dispose of contents/container in accordance with local/regional/ national regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substances/ Mixture: Mixture

Composition:

Chemical Name	CAS	Conc. (m/m%)	Classification EC 1272/2008
Glufosinate-ammonium	77182-82-2	20 %	Acute Toxicity Oral (Category 4) H302 Acute Toxicity Dermal (Category 4) H312 Acute Toxicity -Inhalation (Category 4) H332 STOT RE (Category 2) H373 Reproduction Toxicity (Category 1B) H360Fd
Primary Alcohol Ethoxylate	68131-39-5	<10%	Aquatic Acute (Category 1) H400 Aquatic Chronic (Category 3) H412
Tristyrylphenol Ethoxylate	99734-09-5	<10%	Aquatic Chronic (Category 3) H412
Calcium Dodecylbenzene Sulfonate	26264-06-2	<5%	Acute Toxicity Oral (Category 4) H302 Skin Irritation (Category 2) H315 Eye Damage (Category 1) H318 Aquatic Chronic (Category 4) H413

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section. Occupational exposure limits, if available, are listed in Section 8.

4. FIRST AID MEASURES

Remove the victim from the area of exposure. Wash off remaining material with plenty of water. In the event of any complaints or symptoms, avoid further exposure and consult a doctor / poison control centre.

Inhalation: Remove person from contaminated area to fresh air and assist breathing as needed. Avoid inhalation of vapour or mist spray. If inhaled, remove to fresh air. Administer artificial respiration if breathing is stopped. Seek medical attention.

Skin: Remove contaminated clothing and shoes. Gently wipe off excess chemical. Wash skin gently and thoroughly with water and non-abrasive soap. Obtain medical attention if irritation persists / person feels unwell.

Eyes: Flush eyes with clean water. Lift eyelids to facilitate irrigation. If present, remove contact lenses and continue rinsing. If eye symptoms (redness, irritation, or pain) persist refer patient to ophthalmologist for examination of eyes. Seek medical attention if irritation persists.

Ingestion: Seek medical attention or call a poison control centre for treatment advice. Do not induce vomiting unless instructed to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person. If the person is alert, rinse mouth thoroughly with water. Loosen tight clothing such as a collar, tie, belt, or waistband. If swallowed, get emergency medical help immediately.

Anticipated acute effects: Harmful in case of inhalation.

Anticipated delayed effects: May damage fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure.

Most important symptoms/effects: None known.

Advice to physician: No specific antidote known. Treat symptomatically. Symptoms may be delayed following ingestion.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Use carbon dioxide, dry powder, or alcohol-resistant foam for small fires and water fog or foam can be used for larger fires or cooling of unaffected stock but avoid the accumulation of polluted run-off from the site.

Unsuitable Extinguishing Media: High volume water jet. Use a water jet only to cool heated containers.

Specific hazards: May release irritating fumes upon combustion such as oxides of carbon and nitrogen. Hazardous decomposition products in case of fire: Refer to Section 10: Stability and Reactivity.

Special Fire Fighting Procedures: Remove spectators from surrounding area. Isolate the fire area and evacuate all personnel downwind of the fire. Fight fire from maximum distance and use unmanned hose holder or monitor nozzles. Keep upwind. Avoid inhaling hazardous vapours and fumes from burning materials. Remove container from fire area if possible and without risk. Do not use high volume water jet, due to contamination risk. Do not scatter the burning material. Water can be used to cool unaffected containers but must be contained for later disposal. Contain fire control agents for later disposal. Avoid pollution of waterways by run-off from the site.

Personal protective equipment: Wear NIOSH/MSHA approved self-contained breathing apparatus and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid contact with eyes and skin. Do not breathe in spray mist or dust. Ventilate area of spill, especially in contained areas.

Protective equipment: Refer to Section 8 for personal protective equipment to be worn during containment and clean-up of a spill involving this product.

Emergency procedures: Alert firefighting personnel, evacuate unprotected personnel and animals.

Environmental Precautions: Prevent spilled product from entering sewers, waterways or ground water. This product is classified as very toxic to aquatic organisms with long-term adverse effects in the aquatic environment. Any spillages or uncontrolled discharges into watercourses should be reported immediately to the police and the Department of Water/Environmental Affairs.

Methods and Materials for Containment: Contain spilled material if possible. Collect in suitable and properly labelled containers. Absorb with materials such as: sand, earth, vermiculite, or diatomaceous earth

Methods and Materials for Clean-up: Contain spilled product by picking up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for disposal. Do not create a powder cloud by using a brush or compressed air. Label containers with the contents and dispose of according to local regulations. Do not place spilled material back in original container. Do not re-use spilled material. To decontaminate the spill area, tools and equipment, wash with water and suitable detergent. Collect washings and add to the drums already collected. Do not flush spilled material or washings into drains or waterways. See section 13 for disposal considerations.

7. HANDLING AND STORAGE

Handling:

Precautions for safe handling: Avoid inhalation. Avoid contact with eyes, skin or clothing. Ensure adequate ventilation during handling and use. Do not handle broken packages without protective equipment. Immediately

clean up spills that occur during handling. Keep containers closed when not in use. In the case of contact with the product refer to First Aid Measures – Section 4.

General occupational hygiene: Handle in accordance with good industrial hygiene and safety practice. Eating, drinking, and smoking should be prohibited in areas where this material is handled, stored, and processed. Workers should wash hands and face before eating, drinking, and smoking. Remove contaminated clothing and protective equipment before entering eating areas.

Storage:

Conditions for safe storage: Keep under lock and key and out of reach of unauthorised persons, children and animals. Store in its original, labelled container, tightly closed, in an isolated, dry, cool and well-ventilated area. Avoid excess heat. Not to be stored next to foodstuffs, feed and water supplies. Avoid cross contamination with other pesticides and fertilisers.

Incompatible substances and mixtures: Refer to product label.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Limits:

No information available.

Engineering Controls: It is essential to provide adequate ventilation. The measures appropriate for a particular worksite depend on how this material is used and on the extent of exposure. Local Exhaust: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OELs or other specified exposure limits. Local exhaust ventilation is preferred. Ensure that control systems are properly designed and maintained. Comply with occupational safety, environmental, fire, and other applicable regulations.

Personal Protective Equipment:

Respiratory Protection: For most well-ventilated conditions, no respiratory protection should be needed. If used in a poorly ventilated area (airborne concentrations exceed exposure limits), use a NIOSH approved air-purifying respirator.

Hand Protection: The use of chemically protective gloves is recommended to prevent against skin contact. Examples of preferred glove barrier materials include Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, Polyvinyl alcohol, Polyvinyl chloride.

Eye Protection: The use of chemical safety goggles is recommended to prevent against eye contact. Contact lenses are not protective eye devices.

Skin and Body Protection: Employee must wear appropriate protective clothing; boots, hat and equipment to prevent repeated or prolonged skin contact with this substance.

Emergency eyewash: Where there is any possibility that an employee's eyes may be exposed to this substance; the employer should provide an eye wash fountain or appropriate alternative within the immediate work area for emergency use.

Environmental exposure controls: Prevent product from entry into sewers and water courses.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid
Colour	Pale brown
Odour	Pungent
Odour threshold	No data available
pH	3 - 7
Melting point / freezing point (° C)	Not applicable
Boiling point (° C)	No data available
Flash point (° C)	No data available
Evaporation rate	No data available

Flammability	Non flammable
Upper /lower flammability limits	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density (25°C)	1.1
Water solubility (g/l) at 20°C	No data available
Partition coefficient: n-octanol/water partition coefficient	No data available
Auto-ignition temperature (° C)	No data available
Decomposition temperature (° C)	No data available
Viscosity, dynamic (mPa s)	No data available
Explosive properties	No data available
Oxidising properties	No data available
Explosive limits	No data available

10. STABILITY AND REACTIVITY

Chemical Stability: The product is stable for two years at ambient temperature and pressure, under normal storage and handling conditions. Avoid storage under extreme temperatures and conditions. Store below 50 °C, preferably below 30 °C, and not for prolonged periods in direct sunlight.

Reactivity: None known.

Possibility of Hazardous Reactions: Will not occur.

Conditions to Avoid: Avoid excessive heat and ignition sources.

Incompatible Materials: Strong oxidizers, strong bases, strong reducing agents.

Hazardous Decomposition Products: Hydrogen sulfide, carbon oxides, sulfur and nitrogen.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:

Calculated according to GHS:

Acute Oral LD₅₀ (rat): > 2 000 mg/kg

Acute Dermal LD₅₀ (rat): > 2 000 mg/kg

Acute Inhalation LC₅₀ (rat, 4 hr): > 4.53 mg/ℓ air.

Skin Irritation: Not classified.

Eye Damage/Irritation: Not classified.

Skin Sensitization: Not classified.

Respiratory Sensitization: Not classified.

Reproductive cell mutagenicity: Not classified.

Carcinogenicity: Not classified.

Reproductive toxicity: May damage fertility or the unborn child.

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 classified.

Chronic Effects (other targets e.g. developmental): Not classified

12. ECOLOGICAL INFORMATION

The product is classified as a marine pollutant.

ECOTOXICITY DATA:

Active ingredient: Glufosinate-ammonium CAS No. 77182-82-2

Fish

LC₅₀ (96 hr) 710 mg/l (rainbow trout); >1000 mg/l (bluegill sunfish).

Daphnia

LC₅₀ (48 hr) 668 mg/l

Algae

ErC₅₀ (72h) >80 mg/l (*Pseudokirchneriella subcapitata*)

Birds

Acute oral LD₅₀ (8d) >5000 mg/kg Japanese quail

Bees

Toxicity to bees LD₅₀ >100 µg/bee.

Worms

LC₅₀ (14d) >1000 mg/kg soil (Earthworms)

Biodegradability: The compound is rapidly degraded in the surface layers of soil and in water. Degradation produces 3-(methyl) phosphinoylpropionic acid and 2-(methyl) phosphinoylacetic acid, ultimately breaking down to CO₂ and bound residues. In soil, DT₅₀ values range from 3–10 days in laboratory studies and 7–20 days in field trials, with DT₉₀ of 10–30 days. Metabolites degrade with DT₅₀ values of 7–19 days. In water, DT₅₀ ranges from approximately 2–30 days.

Bioaccumulation: No data available.

Mobility: Adsorption is more closely correlated with clay content than organic matter, with K_{clay} values ranging from 2–115 and K_{oc} from 10–1230, indicating low mobility in soil.

13. DISPOSAL CONSIDERATION

Pesticide Disposal: Open dumping or burning of this pesticide is prohibited. Waste resulting from the use of this product cannot be reused or re-processed. Never pour untreated waste or surplus product into public sewers or where there is any danger of run-off or seepage into water systems. Do not contaminate rivers, dams or any other water sources with the product or used containers. Comply with local legislation applying to waste disposal. The product may be taken to a registered waste disposal site or incineration plant.

Package Product Wastes: Emptied containers retain vapour and product residues. Observe all labelled safeguards until container is cleaned, reconditioned or destroyed. Thereafter, rinse the container three times with a volume of water equal to a minimum of one third of that of the container. Puncture the triple rinsed container and dispose of via an approved collector or recycler (www.croplife.co.za). Do not bury, burn or donate the container to any other parties that may use it as a container for food or beverages.

14. TRANSPORT INFORMATION

UN Number 3082

Road Transport ADR/IRD:

Class: 9

Packaging group: III

UN proper Shipping Name: Environmentally Hazardous Substance; Liquid; N.O.S. (Glufosinate-ammonium 200 g/l)

Maritime Transport IMDG/IMO:

Class: 9
 Packaging group: III
 UN proper Shipping Name: Environmentally Hazardous Substance; Liquid; N.O.S. (Glufosinate-ammonium 200 g/l)

Marine Pollutant (Y/N): Yes

Air Transport IATA/ICAO:

Class: 9
 Packaging group: III
 UN proper Shipping Name: Environmentally Hazardous Substance; Liquid; N.O.S. (Glufosinate-ammonium 200 g/l)

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation for the mixture:

Relevant information regarding authorization: Occupational Health and Safety Act 1993. Regulation for Hazardous Chemical Agents, 2021. UN Recommendations on the Transport of Dangerous Goods Model Regulations Rev. 21 (2019), Globally Harmonized System of Classification and Labelling of Chemicals (GHS) Rev 8, 2019.

Relevant information regarding restrictions: None.

EU regulation: Regulation EC1272/2008 (EU-GHS/CLP)

Other national regulations: National Road Traffic Act, 1996 (ACT NO. 93 of 1996). SANS 10228:2012- The identification and classification of dangerous goods for transport by road and rail modes. National Environmental Management Waste Act 59 of 2008. Act 36 of 1947 of the Republic of South Africa. This product is registered under it is a violation of South African law to use this product in any manner inconsistent with its approved labelling. Read and follow all label directions

Chemical Safety Assessment carried out? No

16. OTHER INFORMATION

Note: Read and understand all the information on the product label before using the product.

Other hazard statements, abbreviations and explanations:

H332: Harmful if inhaled.

H360Fd: May damage fertility or the unborn child.

H373: May cause damage to organs through prolonged or repeated exposure.

H401: Toxic to aquatic life.

IATA: International Air Transport Association.

IBC: International Bulk Chemical.

ICAO: International Civil Aviation Organization.

IMDG: International Maritime Dangerous Goods

IMO: International Maritime Organization.

LD50 value: The median lethal dose or the amount of a toxic agent that is sufficient to kill 50 percent of a population within a certain period of time.

OEL/RL: Occupational exposure limit-recommended limit.

TWA: Time-weighted average – The average exposure over a specified period, usually a nominal eight hours.

ST/STEL: Short-term exposure limits.

Disclaimer: The information on this sheet is not a specification; it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage and use of the product. It is not applicable to unusual or non-standard uses of the product, nor where instructions or recommendations are not followed.

All information is given in good faith but without guarantee in respect of accuracy, and no responsibility is accepted for errors and omissions or the consequence thereof.

END OF DOCUMENT

Compiled: /
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For detailed information on revisions, contact the registration holder.