

# Safety Data Sheet (SDS) Blative 200 SL

According to UN GHS 8th Ed  
Revision Date: 18/06/2022

First print date: 01/01/2022  
Version: 1.1

## SECTION 1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY/UNDERTAKING

### Product identifier:

**Identification as on the label/Trade name:** Blative 200SL

**Common name:** Glufosinate-ammonium 200 g/l SL

### Relevant identification uses of the substance and uses advised against:

**Identified uses:** Herbicide

**Uses advised against:** Use only as directed.

### Details of the supplier of the Safety Data Sheet:

Enviro Bio-Chem (Pty) Ltd, 44 Kerk Street,  
Lichtenburg, North West, South Africa, 2740

### Details of the Registration Holder:

Enviro Bio-Chem (Pty) Ltd, 44 Kerk Street,  
Lichtenburg, North West, South Africa, 2740

### Contact Details:

Telephone: +27 87 231 7261

Fax: 086 541 7948

Website: www.envirobiochem.co.za

### Emergency telephone numbers:

**24 Hour Emergency Number: Bateleur: +27 83 123 3911**

Griffon Poison Information Centre: +27 82 446 8946

Poisons Information Helpline: 0861 555 777

Tygerberg Hospital: +27 21 931 6129

## SECTION 2. HAZARD IDENTIFICATION

### Classification of the substances or mixture

The mixture is classified according to SANS 10234:2019, Regulation EC 1272/2008 [EU-GHS/CLP]

Hazard classes/Hazard categories	Hazard statement
Acute toxicity inhalation (Category 4)	H332
Reproduction toxicity (Category 1B)	H360Fd
STOT RE (Category 2)	H373
Aquatic Toxicity Acute (Category 2)	H401

*For full text of H statements see section 16*

### 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



### Hazard pictograms

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**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

## SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Substance/Mixture:** Mixture

**Ingredients:**

Substance name (IUPAC)	CAS Number.	Concentration % by weight	Classification EC1272/2008
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.

## SECTION 4. FIRST AID MEASURES

**Description of first aid measures:**

**In case of inhalation:** Avoid inhalation of vapour or mist spray. If inhaled, remove to fresh air. Administer artificial respiration if breathing is stopped. Seek medical attention.

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**In case of skin contact:** In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Seek medical attention if symptoms persist.

**In case of eye contact:** Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. If eye symptoms (redness, irritation, or pain) persist refer patient to ophthalmologist for examination of eyes.

**In case of ingestion:** Wash out mouth with water if the patient is alert and conscious. Do NOT induce vomiting. If vomiting occurs spontaneously, keep head below hips to avoid aspiration. Keep patient at rest and transport to nearest medical facility for further treatment. attention. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt, or waistband.

## Most important symptoms and effects, both acute and delayed:

**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:** None known

## Indication of any immediate medical attention and special treatment needed:

No specific antidote known. Treat symptomatically. Symptoms may be delayed following ingestion.

## SECTION 5. FIRE FIGHTING MEASURES

### Extinguisher media:

**Suitable** extinguisher media: Foam. Dry powder. Carbon dioxide. Water spray.

**Small Fire:** Extinguish small fires with carbon dioxide, dry powder, or alcohol-resistant foam.

**Large Fire:** 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: Do not use high volume water jet, due to contamination risk.

### Special hazards arising from the mixture:

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.

### Advice for fire-fighters:

Avoid inhaling hazardous vapours and fumes. Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear. Use an approved/certified respirator or equivalent.

Contain fire control agents for later disposal according to Section 13.

Water can be used to cool unaffected containers.

## SECTION 6. ACCIDENTAL RELEASE

### Personal precautions, protective equipment, and emergency procedures:

**For non-emergency personnel:** Keep all personal away may be toxic by inhalation. Avoid contact with eyes and skin.

**For emergency responders:** Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear. Use an approved/certified respirator or equivalent Avoid contact with eyes and skin. Do not breathe in fumes. Refer to section 8 for recommended personal protective equipment. Evacuate unnecessary personnel.

### Environmental precautions:

Stop leak if without risk. Do not touch spilled material. Prevent entry into drains, watercourses, groundwater or confined areas: dike if needed. This product is classified to be very toxic to aquatic organisms and may cause long-term adverse effects in the aquatic environment.

If the product contaminates public water, inform appropriate authorities immediately in accordance with local regulations.

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Dispose in a safe manner in accordance with local/national regulations.

### Methods for containment and cleaning up:

**For small spills** Contain spilled material if possible. Collect in suitable and properly labelled containers. Absorb with materials such as: sand, earth, vermiculite, or diatomaceous earth

**For large spills** Prevent entry into drains, watercourses, or confined areas. Cover contained spill with an inert absorbent material e.g., sand, earth, vermiculite or diatomaceous earth. Vacuum, scoop or sweep up material into a clean, dry, sealable container. Label container with the contents and dispose of according to local regulations. Do not reuse spilled material. To decontaminate the spill area, tools and equipment, wash with water and a suitable detergent.

### Reference to other sections:

See section 7 for information on safe handling.

See section 8 for information on personal protection equipment.

See section 13 for information on disposal.

## SECTION 7. HANDLING AND STORAGE

### Precautions for safe handling:

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. Avoid inhalation. Avoid contact with eyes, skin or clothing. Ensure adequate ventilation during use and handling. Do not handle broken containers without protective equipment. Clean up spills immediately that occur during handling.

**Protective measures:** Observe directions on label and instructions for use.

**Advice on general occupational hygiene:** Do not eat drink or smoke when handling this product. Wash hands before eating, drinking, chewing gum, smoking, or using the toilet

### Conditions for safe storage, including incompatibilities:

Store product in a locked, segregated, and approved area, out of reach of unauthorized 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.

### Specific end uses:

Use as directed. Use original container.

## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Control parameters:

**Occupational exposure limits (OEL):** No information available.

**Biological exposure indices (BEI):** No information available.

**Additional exposure limits under the conditions of use:** No information available.

### Exposure control:

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. A Risk Assessment should be conducted before handling is to commence to determine specific exposure control.

**Appropriate engineering controls:** Adequate ventilation is essential. Appropriate measures depend on how this

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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. Ensure that eyewash stations and safety showers are close to the workstation location.

**Hygiene measures:** Wash hands, forearms, and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.

### Personal Protective Equipment

**Eye/face protection:** Use safety glasses. If there is a potential for exposure to particles which could cause eye discomfort wear chemical goggles.

**Hand protection:** Use chemical resistant gloves. Examples of preferred glove barrier materials include Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, Polyvinyl alcohol, Polyvinyl chloride.

**Body protection:** Appropriate impervious clothing is required to prevent skin contact with the product.

**Respiratory protection:** Use in a well-ventilated area. For use in well ventilated areas a respirator is generally not required. If used in areas that are not well-ventilated Respiratory protection is required; use a NIOSH approved air purifying respirator with cartridges/canisters approved for organic vapours.

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

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic 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	No data available
Upper /lower flammability limits	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density g/ml (20°C)	1.1
Water solubility (g/l) at 20°C	No data available
Partition coefficient : n-octanol/water	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

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**SECTION 10. STABILITY AND REACTIVITY**
**Reactivity:**

None known

**Chemical stability:**

Stable under normal storage conditions for 2 years. Avoid excessive heat sources.

**Possibility of hazardous reactions:**

No information available.

**Conditions to avoid:**

Avoid excessive heat and ignition sources.

**Incompatible materials:**

Should not be applied in combination with strong acidic and strong alkaline products.

**Hazardous decomposition products:**

Hydrogen sulfide, oxides of carbon, sulfur and nitrogen.

**SECTION 11. TOXICOLOGICAL INFORMATION**
**Toxicokinetics, metabolism and distribution:** No data available

**Information on toxicological effects:**
**Assessment of acute toxicity:**

The product has not been tested. The data reported is for the main ingredients in the mixture.

<b>Glufosinate-ammonium CAS No. 77182-82-2</b>	
<b>Acute toxicity:</b>	
Acute Oral LD50 (rat)	>2000 mg/kg
Acute Dermal LD50 (rat):	> 2000 mg/kg
Acute Inhalation LC50 - 4 h (rat)	>4.53 mg/l
Skin irritation/ corrosion (rabbit)	Non irritating to skin
Eye damage / irritation (rabbit)	Non irritating to eyes
Respiratory or skin sensitization (Guinea pig)	Non sensitising to skin
Germ cell mutagenicity	No data available
Carcinogenicity	No data available
Reproductive toxicity	May damage fertility and the unborn child
Specific Target Organ Toxicity STOT single exposure	No data available
Specific Target Organ Toxicity STOT repeated exposure	May cause damage to organs through prolonged or repeated
Aspiration hazard	No data available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

<b>Primary Alcohol Ethoxylate CAS No. 68131-39-5</b>	
<b>Acute toxicity:</b>	
Acute Oral LD50 (rat - male)	>5000 mg/kg
Acute Dermal LD50 (rat):	>2000 mg/kg
Acute Inhalation LC50 - 4 h (rat)	1.6 mg/l
Skin irritation/ corrosion	Non irritating to skin
Eye damage / irritation	Non irritating to eyes
Respiratory or skin sensitization	Not a respiratory or skin sensitizer

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Germ cell mutagenicity	No data available
Carcinogenicity	No data available
Reproductive toxicity	No data available
Specific Target Organ Toxicity STOT single exposure	No data available
Specific Target Organ Toxicity STOT repeated exposure	No data available
Aspiration hazard	No data available

**Calcium dodecylbenzenesulphonate CAS No. 26264-06-2**
**Acute toxicity:**

Acute Oral LD50 (rat - male)	1300 mg/kg
Acute Dermal LD50 (rat):	2000 mg/kg
Acute Inhalation LC50 - 4 h (rat)	0.31 mg/l
Skin irritation/ corrosion	Irritating to skin
Eye damage / irritation	Irritating to eyes
Respiratory or skin sensitization	Not a respiratory or skin sensitizer
Germ cell mutagenicity	No data available
Carcinogenicity	No data available
Reproductive toxicity	No data available
Specific Target Organ Toxicity STOT single exposure	No data available
Specific Target Organ Toxicity STOT repeated exposure	No data available
Aspiration hazard	No data available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**SECTION 12. ECOLOGICAL INFORMATION**
**Glufosinate-ammonium CAS No. 77182-82-2**
**Toxicity**

Birds Acute oral LD <sub>50</sub> (8d)	>5000 mg/kg Japanese quail
Aquatic Toxicity Fish LC <sub>50</sub> (96 hr) Aquatic Toxicity Daphnia EC <sub>50</sub> (48 hr) Toxicity to algae – static test ErC <sub>50</sub> (96h)	Rainbow trout 710 mg/ ℓ, Bluegill sunfish >1000 mg/ ℓ, 560-1000 mg/l ≥1000mg/l for algae ( <i>Scenedesmus subspicatus</i> ); 37mg/l ( <i>Selenastrum capricornutum</i> )
Toxicity to bees LD <sub>50</sub> (48 h) for contact	>100 µg/bee Not hazardous to bees
<b>Persistence and degradability</b>	Rapidly degraded in surface levels of soil, and in water. Because of polarity, it and its metabolites do not bioaccumulate. Degraded to 3-(methyl) phosphinoylpropionic acid and 2-(methyl) phosphinoylacetic acid, and ultimately to CO <sub>2</sub> and bound residues. In soil, DT <sub>50</sub> 3-10 d (lab.), 7- 20 d (field); DT <sub>90</sub> 10-30 d (lab.); DT <sub>50</sub> of metabolites 7- 19 d (lab.). DT <sub>50</sub> in water c. 2-30 d. Lysimeter studies and model calculations show that neither a.i. nor metabolites leach into groundwater; this appears to be due to rapid degradation, and adsorption to certain soil elements. Adsorption is more correlated with clay content than organic matter, Kclay 2-115, Koc 10-1230
<b>Bioaccumulation potential</b>	No data available
<b>Mobility in soil</b>	No data available

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<b>Result of PBT and vPvB assessment</b>	No data available
<b>Other adverse effects</b>	No data available

<b>Primary Alcohol Ethoxylate CAS No. 68131-39-5</b>	
<b>Toxicity</b>	
Aquatic Toxicity Fish static test LC <sub>50</sub> (96 h)	0.59 mg/l Pleuronectes platessa
Aquatic Toxicity Daphnia EC <sub>50</sub> (48 h)	0.14 mg/l Daphnia magna (Water flea)
Toxicity to algae –ErC50 (72h)	No data available
Toxicity to bacteria–EC50 (0.5h)	No data available
<b>Persistence and degradability</b>	No data available
<b>Bioaccumulation potential</b>	No data available
<b>Mobility in Soil</b>	No data available
<b>Result of PBT and vPvB assessment</b>	No data available

<b>Calcium dodecylbenzenesulphonate CAS No. 26264-06-2</b>	
<b>Toxicity</b>	
Aquatic Toxicity Fish LC <sub>50</sub> (96 hr)	1.74 -7.16 mg/l
Aquatic Toxicity Daphnia semi static EC <sub>50</sub> (96 hr)	No data available
Toxicity to algae – static test EC50 (96h)	2.73 – 29 mg/l
Toxicity to bacteria EC50 (3h)	500 – 723 mg/l
<b>Persistence and degradability</b>	No data available
<b>Bioaccumulation potential</b>	No data available
<b>Mobility in Soil</b>	No data available
<b>Result of PBT and vPvB assessment</b>	No data available
<b>Other adverse effects</b>	No data available

**SECTION 13. DISPOSAL CONSIDERATIONS**
**Waste treatment methods:**
**Product:**

Keep out of drains, sewers, ditches, and waterways. Open dumping or burning of this pesticide is prohibited.

Waste resulting from the use of this product cannot be re-used or reprocessed. Refer to container label for disposal information. Treat as hazardous waste and dispose of in accordance with local/ regional/ national/ international regulations.

**Container:**

Refer to container label for disposal information. Emptied containers retain vapour and product residues. Observe all labelled safeguards until container is cleaned, reconditioned, or destroyed. Rinse empty container three times with a volume of water equal to at least one tenth of that of the container. Pour rinse water into spray tank. Dispose of as hazardous waste. not contaminate water when disposing of rinse water. Dispose of using an approved waste disposal service provider. Follow all local/ regional/ national/ international regulations.

**SECTION 14. TRANSPORT INFORMATION**

UN Number	3082
UN proper shipping name	Environmentally Hazardous Substance; Liquid; N.O.S. (Glufosinate-ammonium 200 g/l)
Transport hazard class	9
Packaging group	III



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Marine pollutant	Yes
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## SECTION 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:

**EU regulations:** Regulation EC 1272/2008 [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

## SECTION 16. OTHER INFORMATION

### Indication of changes:

Classification according to SANS 10234:2019, Regulation EC 1272/2008 [EU-GHS/CLP]

GHS aligned – all sections

### Relevant H statements (number and full text):

Acute toxicity inhalation (Category 4): Harmful if inhaled

Reproduction toxicity (Category 1B): May damage to fertility and the unborn child

Specific Organ Target Toxicity Repeated exposure (Category 2) – May cause damage to organs through prolonged or repeated Exposure.

Aquatic Toxicity acute (Category 2): Toxic to aquatic life

### Training instructions:

Use as indicated on the label, special training may be required for application.

### Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

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.