

# Glufosinate-ammonium 200g/l SL -MATERIAL SAFETY DATA SHEET

## Manufacturer/information service:

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## 1. Chemical Product Identification

Product Name: Glufosinate-ammonium 200g/l SL

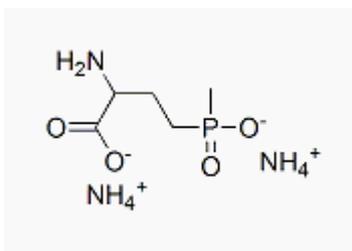
Data on active ingredient

Active ingredient: Glufosinate-ammonium

Molecular Formula:  $C_5H_{12}NO_4P.NH_3$

Molecular Weight: 198.15

Structural Formula:



Chemical Name: Ammonium 4-[hydroxy(methyl)phosphinoyl]-DL-homoalaninate

Form: solid

Color: white

Odor: pungent

CAS No.: 77182-82-2

## 2. Composition / Information on Ingredients

Composition	CAS No.	Content (w/v)
Glufosinate-ammonium	77182-82-2	20%
m		

### **3. Hazards Identification**

May irritate eyes and skin. Not flammable.

### **4. First Aid Measures**

If poisoning occurs, immediately contact a doctor or Poisons Information Centre, and follow the advice given. Show this Material Safety Data Sheet to a doctor.

Swallowed: If swallowed, immediately contact a doctor or Poisons Information Centre, and follow the advice given. Keep under medical supervision.

Eye: Rinse immediately with clean water, including under eyelids, for at least 15 minutes and obtain medical advice.

Skin: Remove contaminated clothing. Wash affected areas with plenty of soap and water.

Inhaled: If inhaled, remove to fresh air and obtain medical advice.

### **5. Fire-Fighting Measures**

Fire Fighting Procedures: Firefighters should wear full protective gear, including self-contained breathing apparatus. If possible and without risk, remove intact containers from exposure to fire. Otherwise, spray unopened containers with water to keep cool. Whenever possible, contain fire-fighting water by bunding area with sand or earth to prevent it entering any bodies of water.

Extinguishing Media: Carbon dioxide, water spray, dry agent, foam.

Stability and Reactivity: Stable under normal conditions of use. No dangerous reaction known under normal conditions of use. Avoid extreme heat and fire. Toxic thermal decomposition products may include oxides of carbon, sulphur and nitrogen and compounds of chlorine and fluorine.

### **6. Accidental Release Measures**

Dealing with spills and disposal may result in the potential for increased personal exposure. During such operations it is recommended that the following protective clothing is worn: Cotton overalls buttoned to the neck and wrist Waterproof gloves Contain spill, sweep up or shovel and place in properly labelled sealed drums for safe disposal. Deal with all spillages immediately. If contamination of drains, streams, watercourses etc. is unavoidable, warn the local water authority.

### **7. Handling and Storage**

Handling: Keep out of reach of children. Avoid contact with eyes, skin and clothing. Wear long sleeved overalls and gloves while handling. After handling and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water.

Storage: Store in the closed original container in a cool, well ventilated, locked place out of the reach of children. Do not store in direct sunlight.

## **8. Exposure Controls/Personal Protection**

Exposure standards: No occupational exposure standards have been established for the product or its ingredients.

Engineering controls: Control process conditions to avoid contact.

Personal Protective Equipment:

Eyes: Not normally required. Avoid touching eyes while handling product.

Clothing: Avoid skin contact; full-length work clothes should be worn when using this product.

Gloves: Avoid contact with skin; wear waterproof gloves.

Respiratory: Not required.

## **9. Physical and Chemical Properties**

Appearance: light yellow or white liquid

pH: 5.0-7.5

Boiling point: >90°C

## **10. Stability and Reactivity**

Chemical stability: Stable under normal conditions of use. No dangerous reaction known under normal conditions.

Hazardous polymerisation: None

Conditions to avoid: Extreme heat and fire

Incompatible materials: None known

Hazardous decomposition products: Thermal decomposition may produce toxic by-products of carbon and nitrogen.

## **11. Toxicological Information**

Acute oral LD50 (rat): 1620 a.i.mg/kg

Acute dermal LD50 (rat): >2000 a.i.mg/kg

Acute Inhalation LC50 (rat): 1.26 a.i.mg/l air

Skin irritation: slightly irritating to rabbit skin

Eye irritation: slightly irritating to rabbit eyes

Skin Sensitization: non-sensitizing (Guinea Pig)

## **12. Ecological And Ecotoxicological Information**

Rainbow trout LC50 (96h): 710 a.i.mg/L

Bluegill sunfish LC50 (96h): >1000 a.i.mg/L

Daphnia EC50 (48h): 560 a.i.mg/L

Mallard duck LD50: >2500 a.i.mg/kg

Honeybees LD50 (contact): >100 a.i.ug/bee

## **13. Disposal Considerations**

Triple or (preferably) pressure rinse containers before disposal. Add rinsings to the spray tank. Do not dispose of undiluted chemicals on-site. If recycling replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. If no landfill is available bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

## **14. Transport Information**

Not applicable.

## **15. Regulatory Information**

Not applicable.

## **16. Other Information**

All information and instructions provided in this Material Safety Data Sheet (MSDS) are based on the current state of scientific and technical knowledge at the date indicated on the present MSDS and are presented in good faith and believed to be correct. This information applies to the product as such. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear. It is the responsibility of persons on receipt of this MSDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipient subsequently produce formulations containing this product, it is the recipients sole responsibility to ensure the transfer of all relevant information from this MSDS to their own MSDS.