



Infosafe No™ NU04H

Issue Date : June 2008

ISSUED by NUFARM

CS: 1.4.21

Product Name **LIASE Liquid Herbicide Adjuvant**

Not classified as hazardous

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name** LIASE Liquid Herbicide Adjuvant  
**Product Code** 3355  
**Company Name** NUFARM AUSTRALIA LIMITED. (ABN 80 004 377 780)  
**Address** 103-105 Pipe Road Laverton North  
Victoria 3026 Australia  
**Emergency Tel.** 1800 033 498 (24hr Australia)  
**Telephone/Fax Number** Tel: +61 3 9282-1000  
Fax: +61 3 9282-1001  
**Recommended Use** A liquid herbicide adjuvant for use with Glyphosate based herbicides to minimise antagonism when tank mixing with flowable herbicides and improve performance under adverse environmental conditions as per the label.  
**Other Information** This MSDS describes, to the best of our knowledge, the properties of the concentrated product. The physical properties and some of the assessments do not apply to the properties of the product once it has been diluted for application. Acute health effects of the diluted product are likely to be much less severe.

## 2. HAZARDS IDENTIFICATION

**Hazard Classification** Not classified as hazardous  
NON-HAZARDOUS SUBSTANCE.  
NON-DANGEROUS GOODS.  
Hazard classification according to the criteria of NOHSC.  
Dangerous goods classification according to the Australia Dangerous Goods Code.  
**Risk Phrase(s)** Not classified as hazardous  
**Other Information** Poisons Schedule : Not Scheduled

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical Characterization** Liquid

<b>Ingredients</b>	<b>Name</b>	<b>CAS</b>	<b>Proportion</b>
	Ammonium sulphate	7783-20-2	417 g/L

## 4. FIRST AID MEASURES

**Inhalation** Remove affected person to fresh air until recovered.  
**Ingestion** Rinse mouth and then drink plenty of water.  
**Skin** Wash affected areas thoroughly with soap and water.  
Remove contaminated clothing and launder before re-use.  
**Eye** If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes.  
**First Aid Facilities** If poisoning occurs, contact a doctor or the Poisons Information Centre (Australia) on 13 11 26.  
**Advice to Doctor** Treat symptomatically.

## 5. FIRE FIGHTING MEASURES

**Suitable Extinguishing Media** If involved in a fire, the product will not burn. Choose extinguishing media to suit the burning material.  
**Hazards from Combustion Products** If involved in a fire, the dehydrated components may emit toxic fumes of nitrogen, sulphur oxides and ammonia.  
**Special Protective Equipment for fire fighters** Breathable air apparatus may have to be worn if material is involved in fires especially in confined spaces.  
**Specific Hazards**



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## 6. ACCIDENTAL RELEASE MEASURES

<b>Spills &amp; Disposal</b>	Contain spill and absorb with clay, sand, soil or proprietary absorbent (such as vermiculite). Collect spilled material and waste in sealable open-top type containers for disposal.
<b>Clean-up Methods - Small Spillages</b>	Ammonium sulphate is used widely as a fertiliser. Small spillages can be diluted with water and worked into the soil.
<b>Environmental Precautions</b>	Prevent from entering drains, waterways or sewers.

## 7. HANDLING AND STORAGE

<b>Conditions for Safe Storage</b>	Store in the closed, original container in a cool, well ventilated area. Do not store for prolonged periods in direct sunlight.
<b>Tank Cleaning</b>	Spraymate Liase may be corrosive to metal parts of the sprayer. Thoroughly flush tanks, pumps and nozzles with water after use.
<b>Other Information</b>	Always read the label and any attached leaflet before use.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>National Exposure Standards</b>	No exposure standards have been set for this product or the active ingredients.
<b>Engineering Controls</b>	Natural ventilation is sufficient when handling concentrate and preparing spray solution.
<b>Personal Protective Equipment</b>	It is good practice to wear suitable personal protective equipment (PPE). Avoid skin and eye contact.
<b>Hygiene Measures</b>	After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Form</b>	Liquid
<b>Appearance</b>	Colourless liquid.
<b>Melting Point</b>	<0°C
<b>Boiling Point</b>	>100°C
<b>Solubility in Water</b>	Soluble in water.
<b>Specific Gravity</b>	1.19
<b>Volatile Component</b>	60% (water)
<b>Flammability</b>	Not flammable

## 10. STABILITY AND REACTIVITY

<b>Hazardous Reactions</b>	The addition of a strong alkali such as caustic soda will result in the evolution of ammonia vapour which is irritating to eyes and lungs. Ammonium sulfate reacts with sodium hypochlorite.
<b>Hazardous Polymerization</b>	Hazardous polymerisation is not possible.

## 11. TOXICOLOGICAL INFORMATION

<b>Inhalation</b>	When applying the product as a spray avoid breathing in spray mist.
<b>Ingestion</b>	The concentrate is of low toxicity if swallowed.
<b>Skin</b>	Prolonged contact with the concentrate may cause irritation.
<b>Eye</b>	The concentrate may cause irritation of the eyes unless washed off immediately.
<b>Chronic Effects</b>	No information available, no chronic effects expected.
<b>Acute Toxicity - Oral</b>	LD50 (rat) 3000 mg/kg for ammonium sulfate

## 12. ECOLOGICAL INFORMATION



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**Other Precautions** Do not contaminate dams, waterways or sewers with this product or the containers which have held this product.

### 13. DISPOSAL CONSIDERATIONS

**Product Disposal** On site disposal of the concentrated product is not acceptable.

**Container Disposal** Do not use this container for any other purpose.  
Triple rinse containers, add rinsate to the spray tank, then offer the container for recycling/reconditioning, or puncture top, sides and bottom and dispose of in landfill in accordance with local regulations.  
drumMUSTER is the national program for the collection and recycling of empty, cleaned, non returnable crop production and on-farm animal health chemical containers. If the label on your container carries the drumMuster symbol, triple rinse the container, ring your local Council, and offer the container for collection in the program.  
If recycling, replace cap and return clean containers to recycler or designated collection point.  
If not recycling, puncture or shred and bury containers in local authority landfill.  
If no landfill is available, bury the containers below 500mm 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.  
Returnable containers: empty contents fully into application equipment.  
Replace cap, close all valves and return to the point of supply for refill or storage.

### 14. TRANSPORT INFORMATION

**Transport Information** Not classified as Dangerous Goods, according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

**Storage and Transport** Considered non dangerous for transport by the Australian Code for the Transport of Dangerous Goods by Road and Rail.

### 15. REGULATORY INFORMATION

**Poisons Schedule** Not Scheduled

**Packaging & Labelling** KEEP OUT OF REACH OF CHILDREN  
READ SAFETY DIRECTIONS BEFORE OPENING OR USING

**AICS (Australia)** All of the components in this product are listed on the Australian Inventory of Chemical Substances.

### 16. OTHER INFORMATION

**Date of preparation or last revision of MSDS** Revised 19/06/2008

**Contact Person/Point** Normal Hours: Mr Volker Maier Phone: +61 3 9282 1000

After Hours: Shift Supervisor Phone: 1800 033 498

**Revisions Highlighted** The MSDS was reviewed. Minor changes were made to the information.

...End Of MSDS...

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