



SPHERE LABORATORIES (LONDON) LTD

**INVOICE ADDRESS:**

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## SAFETY DATA SHEET

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY UNDERTAKING

1.1 Product Identifier

1.1.1 Substances

Substance name Aluminium Ammonium Sulphate  
Trade name: Liquid Curb Crop Spray, Guardsman, Rezist Liquid, Sphere ASBO

MAFF Approval Numbers 03164, 05494,  
MAPP Approval Numbers 12817, 14643, 15064  
EINECS number 2320553  
CAS number 7784-26-1

Concentration 83g per litre aluminium ammonium sulphate in a water base

Synonym: Alum.

Chemical Formula:  $(\text{NH}_4)_2\text{Al}_2(\text{SO}_4)_4 \cdot 24\text{H}_2\text{O}$

**Relevant identified uses of the substance or mixture and uses advised against:**

Formulant for plant protection products  
No specific uses advised against

Details of the supplier: Sphere Laboratories (London) Ltd, c/o Mainswood,  
Putley Common, Ledbury, Herefordshire, HR8 2RF, UK  
Tel: +44 (0) 1531 670023 e-mail [Fiona.Homes@Sphere-London.co.uk](mailto:Fiona.Homes@Sphere-London.co.uk)

Emergency telephone number:  
London 24 Hour Emergency line - + 44 (0)207 188 0100  
UK Only Emergency line – 0870 600 6266

### SECTION 2: HAZARD IDENTIFICATION

2.1 Classification according to Regulation (EC) No 1272/2008:

None

2.2 Label Elements:  
Pictogram

None

Signal Word

None

Hazard Statement: (H-Statement)

None

**Precautionary Statements:**

P102 - Keep out of reach of children  
P270 - Do not eat, drink or smoke when using this product  
P273 - Avoid release to the environment  
P314 - Get medical advice/attention if you feel unwell  
P101 - If medical advice is needed, have product container or label to hand  
P308+P313 - If exposed or concerned: Get medical advice/attention  
P307+P11 - If exposed: Call a POISON CENTRE or doctor or physician

**Classification according to Directive 1999/45/EC**

Hazard Symbols:

None

R-Phrases:

None

S-Phrases:

S2 KEEP OUT OF REACH OF CHILDREN  
S13 KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDINGSTUFFS  
S20/21 WHEN USING DO NOT EAT, DRINK OR SMOKE  
S29/35 DO NOT EMPTY INTO DRAINS, DISPOSE OF THIS MATERIAL AND ITS CONTAINER IN A SAFE WAY  
S45 IF YOU FEEL UNWELL SEEK MEDICAL ADVICE IMMEDIATELY (show label where possible)  
S49 keep only in original container

**Other hazards**

None

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### SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

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<b>Concentration</b>	83g per L aluminium ammonium sulphate
<b>Synonym:</b>	Alum.
<b>Chemical Formula:</b>	$(\text{NH}_4)_2\text{Al}_2(\text{SO}_4)_4 \cdot 24\text{H}_2\text{O}$

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### SECTION 4: FIRST AID MEASURES

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**Description of first aid measures:**

**Eyes:** In case of contact, flush eyes with plenty of water for at least 15 minutes or use an eye bath.

**Skin:** After contact with skin wash thoroughly with plenty of soap and water. Launder contaminated clothing before reuse..

**Ingestion:** Consult a doctor immediately. If medical assistance is not immediately available seek assistance from emergency services.

**Most important symptoms and effects, both acute and delayed:**  
None

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

GUIDE TO DOCTOR: This product contains aluminium ammonium sulphate. Treatment for alum ingestion should be followed ie gastric lavage with care to prevent aspiration. The product is mammalian repellent and patients may exhibit severe distress. There is no known specific antidote and treatment must be supportive and symptomatic

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### SECTION 5: FIRE FIGHTING MEASURES

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**Extinguishing Media:** Contain the fire with sand or earth or use carbon dioxide, water fog, dry powder or alcohol foam extinguishers prior to the arrival of the Fire Brigade. If a fire occurs adequate protective clothing and self-containing breathing apparatus must be worn. Contain contaminated water – avoid flushing to drains/sewers and freshwater ditches/rivers.

<b>Auto ignition temperature</b>	N/A
<b>Flash Point</b>	N/A
<b>Polymerisation</b>	Does not occur

**Special hazards arising from the substance or mixture:**

Hazardous decomposition – thermal oxidative decomposition does not occur at temperatures below 600°C

**Advise for firefighters:**

Adequate protective clothing and self-containing breathing apparatus must be worn.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Restrict access to the area as appropriate until clean up operations are complete.

**Environmental precautions:**

Prevent material from entering drains or waterways. If drains, streams, soil or sewers become contaminated then notify local authority.

**Methods and material for containment and cleaning up:**

**Spills/Leaks:**

Contain the spillage with a barrier of earth, sand, sawdust or other similar absorbent material. Sweep up contaminated absorbent material and place in a marked container for disposal by an authorized contractor. Contaminated surfaces may be cleaned using water or a detergent/water mixture. If contamination occurs in a public place or if the product enters a watercourse or sewer the police and water authorities should be informed.

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## SECTION 7: HANDLING AND STORAGE

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**Precautions for safe handling:**

**Normal handling:**

This product is NOT a scheduled poison. Avoid contact with skin, eyes and clothing. Keep out of reach of children and away from food, drink and animal feeding stuffs.

**Conditions for safe storage, including any incompatibilities:**

**Storage Recommendation:**

Product must be stored in the original labeled container, tightly closed in a safe place under lock and key. The product should be protected from frost and is stable in the original packaging for at least 2 years.

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## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

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**Control Parameters:**

No occupational exposure limit values have been assigned for the substances in this mixture.

**Appropriate Engineering Control:**

Ensure that eye wash stations and safety showers are proximal to the work station location.

**Individual Protection Measures:**

Primary exposure route – ingestion  
Symptoms – unpleasant acidic taste

Suitable protective clothing must be worn when handling the concentrate. All protective clothing, especially the inside of gloves must be washed after use. For further guidance please see Section 2 of this Data Sheet and the product label. Exposure limits not determined.

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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<b>Appearance:</b>	Light yellow/white liquid
<b>Odour:</b>	Distinct chemical odour
<b>Vapour Pressure :</b>	N/A
<b>Vapour Density:</b>	Not Determined
<b>pH:</b>	3.3 (10% solution)
<b>Volatility:</b>	N/A
<b>Flammability:</b>	Not flammable

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## SECTION 10: STABILITY AND REACTIVITY

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<b>Reactivity:</b>	Stable under normal conditions.
<b>Chemical Stability:</b>	The product is stable under normal storage conditions in its original container. It must be protected from frost. See also Section 3 of this data sheet.
<b>Possibility of hazardous reactions:</b>	Hazardous polymerisation is not expected to occur.
<b>Conditions to avoid:</b>	Avoid oxidizing materials
<b>Incompatible materials:</b>	Acidic solution therefore admixture with alkaline materials is not advised
<b>Hazardous decomposition products:</b>	None known

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## SECTION 11: TOXICOLOGICAL INFORMATION

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<b>LD 50 / LC 50:</b>	Acute Oral, rat: LD50 Rat (male and female) = > 2g / kg; Acute Dermal LD50 Rat (male and female) = >2g / kg. Dermal Irritation Rabbit – not irritant Eye Irritation Rabbit – slight irritant Chronic Toxicity – no adverse effects reported
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### Potential chronic health effects

<b>Carcinogenicity:</b>	No adverse effects reported
<b>Mutagenicity:</b>	No adverse effects reported
<b>Reproductive toxicity:</b>	No adverse effects reported

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## SECTION 12: ECOLOGICAL INFORMATION

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Aluminium ammonium sulphate is of low environmental toxicity. It is subject to biodegradation and does not demonstrate bio-accumulation

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## SECTION 13: DISPOSAL CONSIDERATIONS

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**Method of Disposal:** Dispose of unwanted product and empty packaging in accordance with local regulations. Do not use container for any other purpose.

**Hazardous Waste:** The classification of the product may meet the criteria for a hazardous waste

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## SECTION 14: TRANSPORT INFORMATION

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Aluminium ammonium sulphate is not classified therefore it is recommended that the classification for aluminium sulphate Dot No. UN 3082 is applied

<b>Proper shipping Name:</b>	
<b>Pack Size:</b>	25 litre or 1 tonne IBC
<b>Hazard Class:</b>	N/A
<b>UN Number:</b>	3082
<b>Packing Group:</b>	N/A
<b>Label Class:</b>	N/A

**Transport quantity limitations:** Passenger Aircraft/Railcar – no limit  
Cargo Aircraft – no limit

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## SECTION 15: REGULATORY INFORMATION

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National, state & International Regulations  
European/International Regulations  
Classification and labeling have been performed according to EU directives 67/548/EEC, 1999/45/EC including amendments and the intended use.

**Intended Use:** Agricultural, horticultural, forestry and industrial vertebrate repellent

Contains 83g per litre aluminium ammonium sulphate in a water base.

**Risk Phrases:**

NONE

**Hazard Statements:**

NONE

**Safety Phrases:**

S2 KEEP OUT OF REACH OF CHILDREN  
S13 KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDINGSTUFFS  
S20/21 WHEN USING DO NOT EAT, DRINK OR SMOKE  
S29/35 DO NOT EMPTY INTO DRAINS, DISPOSE OF THIS MATERIAL AND ITS CONTAINER IN A SAFE WAY  
S45 IF YOU FEEL UNWELL SEEK MEDICAL ADVICE IMMEDIATELY (show label where possible)  
S49 keep only in original container

**Precautionary Statements:**

P102 - Keep out of reach of children  
P270 - Do not eat, drink or smoke when using this product  
P273 - Avoid release to the environment  
P314 - Get medical advice/attention if you feel unwell  
P101 - If medical advice is needed, have product container or label to hand  
P308+P313 - If exposed or concerned: Get medical advice/attention  
P307+P11 - If exposed: Call a POISON CENTRE of doctor or physician

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## SECTION 16: OTHER INFORMATION

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For use only in accordance with product label recommendations.

This data was accurate to the best of our knowledge at the time of printing of this information but in case of accidental poisoning seek further advice from the National Poisons Information Service 24 hour emergency helpline - + 44 (0) 207 188 0100

ALWAYS READ THE LABEL. USE PESTICIDES SAFELY.

**Composed by:** SPHERE LABORATORIES (LONDON) LTD  
**Date of Modification:** 25 February 2014

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## DISCLAIMER

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