



SPHERE LABORATORIES (LONDON) LTD

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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, Cat-a-Pult

MAFF Approval Numbers 03164, 05494,
MAPP Approval Numbers 14643, 15064, 12817
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
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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
P270 – 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

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

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

SECTION 4: FIRST AID MEASURES

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

SECTION 5: FIRE FIGHTING MEASURES

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.

Auto ignition temperature	N/A
Flash Point	N/A
Polymerisation	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.

SECTION 6: ACCIDENTAL RELEASE MEASURES

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.

SECTION 7: HANDLING AND STORAGE

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.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Light yellow/white liquid
Odour:	Distinct chemical odour
Vapour Pressure :	N/A

Vapour Density: Not Determined
pH: 3.3 (10% solution)
Volatility: N/A
Flammability: Not flammable

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Stable under normal conditions.
Chemical Stability: 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.
Possibility of hazardous reactions: Hazardous polymerisation is not expected to occur.
Conditions to avoid: Avoid oxidizing materials
Incompatible materials: Acidic solution therefore admixture with alkaline materials is not advised
Hazardous decomposition products: None known

SECTION 11: TOXICOLOGICAL INFORMATION

LD 50 / LC 50: 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

Potential chronic health effects

Carcinogenicity: No adverse effects reported
Mutagenicity: No adverse effects reported
Reproductive toxicity: No adverse effects reported

SECTION 12: ECOLOGICAL INFORMATION

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

SECTION 13: DISPOSAL CONSIDERATIONS

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

SECTION 14: TRANSPORT INFORMATION

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

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

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

SECTION 15: REGULATORY INFORMATION

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
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P307+P11 – If exposed: Call a POISON CENTRE or doctor or physician

SECTION 16: OTHER INFORMATION

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

DISCLAIMER

Information contained in this Safety Data Sheet is believed to be reliable but no representation; guarantee or warranties of any kind are made as to its accuracy, suitability for a particular application or results to be obtained from them. It is up to the user / distributor to ensure that the information contained in the material safety data sheet is relevant to the product manufactured / handled or sold by him as the case may be. There would be no warranties expressed or implied in the respect of the adequacy of this document for any particular purpose