

SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier:

Amino Acid Liquid

1.2 Relevant uses of the substance or mixture and uses advised against:

Use as a professional use fertiliser

1.3 Details of the supplier of the safety data sheet:

**Fielder (UK) Ltd
The Paddocks
Longden
Shrewsbury
Shropshire**

**Contact: The Safety Officer
Phone number:
Email:**

1.4 Emergency phone number: 07774 418047,01743 860924

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

CLASSIFICATION according to Directive 1999/45/EC and statutory instrument No.716 2009 Chemicals (Hazard Information and Packaging) regulation)

Product in not classified as dangerous for humans and the environment

2.2 Label Elements

A the product in not classified under Directive 1999/45/EC and statutory instrument No.716 2009 Chemicals (Hazard Information and Packaging) regulation) not label elements are specified

2.3 Other Hazards

None Known

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Hazardous components

Chemical Name	CAS-No./EC No	Symbol(s)	Risk Phrase(s)	Concentrations [%]
Ammonium nitrate	6484-52-2	O	R8, R9	>0.1%
Potassium nitrate	7757-79-1	O	R8	>0.1%
Phosphoric acid	7663-38-2	C	R34	>0.1% - <5.0%
Potassium hydroxide	1310-58-3	Xn, C	R22, R35	>0.1% - <1.0%

The full text for all R-Phrases if not displayed in section 2 or 3 are displayed in Section 16

FIRST AID MEASURES

4.1 Description of first aid measures

4.1.1 Inhalation

If symptoms arise remove from source of exposure to fresh air; seek medical attention if symptoms persist.

4.1.2 Skin & Eye exposure

Drench immediately with water. Remove any contaminated clothing and launder before re-use. Seek medical attention if symptoms persist.

Eyes: Immediately rinse with clean water for 15 minutes. Obtain medical attention if symptoms persist.

4.1.3 Ingestion

Do not induce vomiting. Wash out mouth with water and give water to drink. Obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Information not available

4.3 Indication of any immediate medical attention and special treatment needed.

Information not available

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Use Foam, carbon dioxide, dry powder, sand. The mixture is not classified as flammable as such extinguishing media should be chosen as appropriate for surrounding materials.

5.2 Special Hazards arising from the substance or mixture

Possible irritant fumes arising from combustion

5.3 Advice for fire-fighters

Cool down containers/equipment exposed to heat with a water spray. Contain spread of extinguishing fluids (these fluids may be hazardous for the environment). Wear complete protective clothing and self-contained breathing apparatus

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment, Avoid contact with skin and eyes

-appropriate coveralls and gloves

-eye/face protection

6.2 Environmental Precautions

Do not allow to enter storm drains or water courses. If this product enters a water course or a sewer (including via contaminated soil & vegetation) in large quantities contact local water authority and inform the Environment Agency

6.3 Methods and material for containment and cleaning up

Use soil, sand or other absorbent material. Transfer collected material into suitably labelled containers, Contact specialist waste disposal contractor

6.4 Reference to other sections

No reference necessary

7. HANDLING AND STORAGE

7.1 Precaution for safe handling

Avoid contact with skin and eyes. Wash Hands thoroughly after handling

Do not eat, drink or smoke when using this product

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool dry atmosphere, in original labelled containers. Refer to manufacturer for maximum safe stacking height. Keep away from heat sources, combustible materials.

7.3 Specific end use(s)

No Information available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters

No information available

8.2 Exposure controls

Primary hazard considered as handling of concentrate

Goggles – Eye Protection: goggles/face shield to BS EN166.

Gloves – BS EN374 – chemical protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance; Liquid, clear yellow to brown

Odour; Slight ammonia odour

Odour threshold; No Information available

pH; 3.0

Melting point/freezing; Freezing point 0°C

Initial boiling point and boiling range; 100°C

Flash point; No Information available

Evaporation rate; No Information available

Flammability (solid, gas); Mixture is not classed as flammable

Upper /lower flammability or explosive limits; Mixture is not classed as explosive

Vapour Pressure; No Information available

Vapour density; No Information available

Relative density; Specific gravity 1.1 @20°C

Solubility (ies); Miscible in all proportions of water

Partition coefficient: n-octanol/water; No Information available

Auto ignition temperature: No Information available

Decomposition temperature: No Information available

9.2 Other Information

No other relevant information available

10. STABILITY AND REACTIVITY

10.1 Reactivity

Unknown

10.2 Chemical Stability

Stable under normal conditions

10.3 Possibility of hazardous reactions

Information not available

10.4 Conditions to avoid

Extremes of temperature

10.5 Incompatible materials

None Known

10.6 Hazardous decomposition products

No hazardous decomposition products are expected when mixture is heated

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

The mixture is not classified as dangerous to humans and the environment, full classification is given in section 2.

Acute Oral (LD50) – not greater than 2000 mg/kg

Oral (gavage) – up to 4000mg/kg. No LD50 found

This mixture is not classed for mutagenicity

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Not classified as harmful to the environment in accordance with the CHIP regulations 2009 and 1999/45/EC.

Acute toxicity fish (LC50) - >3000mg/L

Chronic toxicity fish (LDO) - >2.344mg/L

Algae – no adverse effects noted

Soil organisms – no adverse effects noted

Birds – no adverse effects noted

Pollinating Insects – no adverse effects noted

12.2 Persistence and degradability

Information not available

12.3 Bioaccumulative potential

Information not available

12.4 Mobility in soil

Information not available

12.5 Results of PBT and vPvB

Not classified

12.6 Other adverse effects

Information not available

13. DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

Use only licensed waste disposal companies for unwanted chemical. Do not re-use empty containers for any purpose.

14. TRANSPORT INFORMATION

14.1 UN number: Not regulated for carriage

- 14.2 UN proper shipping name:** Not regulated for carriage
14.3 Transport hazard: Not regulated for carriage
14.4 Packing group: Not regulated for carriage
14.5 Environmental hazards: Not regulated for carriage
14.6 Special precautions for user: Not regulated for carriage
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code
Applicable for Maritime bulk transport only. Check with carrier.
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15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture.

This substance is classified and labelled in accordance with Directive 1999/45/EC, regulation 1272/2008 and the statutory instrument No.716 2009 Chemicals (Hazard Information and Packaging) regulations.

15.2 Chemical Safety Assessment

CSA not undertaken for this substance

16. OTHER INFORMATION

Other Risk Phrases assigned to individual ingredients, but not carried to final classification:

O – Oxidiser



Xn – Harmful



C – Corrosive



R7: May cause fire

R8: Contact with combustible material may cause fire

R22: Harmful if swallowed

R35: Causes severe burns

R34: Causes burns

MSDS information:

This Material Safety data sheet is compiled using data submitted for raw materials and practical experience.

This product is intended for professional users only.

This Safety Data Sheet is prepared in compliance with Directive 1999/45/EC, regulation 1272/2008 and Annex I of the REACH regulation 453/2010.

THE INFORMATION GIVEN HEREIN IS, TO THE BEST OF OUR KNOWLEDGE, CORRECT AND IS PRESENTED IN GOOD FAITH BUT NO WARRANTY, EXPRESSED OR IMPLIED IS GIVEN.

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