

SAFETY DATA SHEET

in accordance with amended directive 91/155/CEE

Created on : 21/10/2004 Rev 10/10/10

Version: 3.0

Trade name:

Liquid Fertilizer 10-34-0 (solution APP 10-34)

1. Identification of the substance / preparation and of the company / undertaking.

Product name:	Liquid Fertilizer 10-34-0 (solution APP 10-34)
Supplier / Distributor:	Agrium Europe S.A. Avenue Louise 326 Bte 36 B-1050 BRUXELLES - Belgique Tel. : +32 (0)2 646 70 00 Fax: +32 (0)2 646 68 60
Use:	Sophisticated nitrogenized and phosphated liquid fertilizer for agriculture.
Emergency contact:	National Chemical Emergency Center Abington Oxfordshire - United Kingdom Tel: +44.208.762.8322

2. Composition / information on ingredients:

Chemical designation of preparation:
Aqueous solution of mineral constituents

Salts contained in the mixture contain the following ions

Phosphate: HPO_4^{2-} Ammonium: NH_4^+

3. Hazards identification

European classification:	This preparation is regulated according to 67/548/EEC and 1999/45/EC European Directives, their adaptations and annexes.
Hazard(s) EC :	None
For human:	Prolonged contact with the skin or eyes can cause irritation. In case of large inhalation product aerosol can cause irritation of the respiratory tract. In the event of fire, the product can be decomposed and release toxic gases when evaporated to dryness.
For the environment:	Large scale or repeated discharge of the product into stagnant water can cause algae to proliferate.

4. First aid measures

Inhalation:	If the aerosol is inhaled, take the person out into the fresh air.
Skin contact:	Wash with plenty of soap and water.
Eye contact:	Thoroughly rinse with water keeping the eyes wide open. Consult an eye specialist if irritation appears.
Swallowing:	If the person is conscious, rinse the mouth, make him drink several glasses of water, do not try to induce vomiting. Seek medical advice if the person is ill.

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5. Fire-fighting measures

Exinction methods:	Product is non-combustible. Use any means of fire extinction appropriate for surrounding materials.
Not advised:	None
Particular risks in the event of fire:	Non combustible but decomposition products may cause emission of harmful or toxic gases, See chapter 10.
Special equipment:	Wearing self contained breathing apparatus is strongly recommended.
Other information:	Avoid pouring fire water down the drains.

6. Accidental release measures

Individual precautions for spillage / leakage :	If possible avoid contact with eyes. Personal precautions see Chapter 8.
Cleaning up / absorption:	Stop leak if possible to do so without risk. Pump up the product and put it in a container, it can always be used if the product is not contaminated or sent for disposal. Clean up affected area with plenty of water.
Environmental protection precautions:	Do not discharge the recovered product or clean-up water into the Environment, take steps to contain it.

7. Handling and storage

Handling:	No special measures to take when the product is well handled. Avoid the generation of aerosols. Wash apparatus after use.
Storage:	Store containers at room temperature (10 – 25 °C) in a well-ventilated place. Recommended packaging materials are plastic material (polypropylene or polyethylene) or stainless steel (304 or 316).

8. Exposure controls / personal protection

Specific control parameters:	The product does not contain constituents with known exposure limits.	
Technical measures:	Ventilation of work place.	
Individual protection equipment:	Respiratory protection:	Possibly protective mask.
	Handling protection:	Gloves.
	Eye protection :	Safety glasses.
Industrial hygiene:	Wash hands after working with the product. Do not drink, eat or smoke at the work site.	

9. Physical and chemical properties

Form:	Liquid
Colour:	Colourless to green

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Odour:	Odourless	
pH value:	undetermined	
Stage changes:	Melting point/range	undetermined
	Boiling point:	greater than 100°C (decomposition of the mixture)
Flash point:	Not applicable	
Ignition temperature:	Not applicable	
Explosive limits:	Lower	undetermined
	Upper:	undetermined
Density (kg/dm ³):	undetermined	
Water solubility:	Soluble	
Log P(o/w):	undetermined	

10.-Stability and reactivity

Stability:	The product is stable under normal conditions of storage and use.
Conditions to avoid:	None when applied and handled in accordance with conditions for use.
Substances to be avoided:	Strong alkalis and strong acids, oils, hypochlorites, perchlorates, reducing agents or catalysts (metallic powder, copper, zinc, and their alloys).
Hazardous decomposition products:	At high temperatures: possible formation NO(x), PO(x), and NH ₃ . Possible formation of NH ₃ by contact with highly alkaline products.
Further data:	May induce corrosion of metals. Consult a metallurgical specialist concerning compatibility with your equipment.

11. Toxicological information

Acute toxicity:	Of the ingredient: ammonium polyphosphate Acute oral LD ₅₀ , OECD 425 protocol: >2,000 mg/kg, rat
Sub-acute or chronic toxicity:	None of the main components is recorded on the IARC carcinogenic products lists.
Toxicological information:	If the aerosol is inhaled: Irritation of the respiratory tracts, cough. In case of prolonged contact with the skin: Possible irritation. After eye contact: Possible irritation. After ingestion: Possible pain in the esophagus and stomach, nausea, vomiting and diarrhea.
Other information:	None.

12. Ecological information

Formulation data:	Mobility: phosphates and ammonium ions are absorbed by soil. Soluble ions not absorbed enter the aqueous phase.
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Degradability: The mixture is easily degradable by plants.

Bio accumulation: Nothing known for ground and water organisms.

Ecotoxicological effects: The mixture is slightly toxic for water life. Large discharge of nitrates and phosphates into stagnant water can cause eutrophication.

Other information about ecology: There is no risk of any ecological problems when appropriately handled and used.

13. Disposal considerations

Product disposal: Using the product correctly should not generate waste.

Packaging Disposal: Disposal by incinerating or upgrading the material by recycling after disposing of product residue by washing with water.

14. Transport information

Shipping regulations:	ADR/RID/ADNR	IMDG/OMI	IATA/ICAO
Not subject to shipping regulations			

15. Regulatory Information

Labelling in accordance with EC directives and adapted versions of them:

This substance is not subject to the European DSD; it is labelled according to 99/45/EC Directive and rules in force.

Symbol(s): None

R-phrases: None

S-phrases: None

Its constituent is listed in the European EINECS substances inventory.

Regulation according to EC fertilizer directives:

Regulation 2003/2003/EC and Directive 76/116/EC and their appendices: Obligatory information for Packaging.
Directives 82/501/EC, 87/216/EC, 88/610/EC : Main hazard, SEVESO.

16. Other-information

Regulatory phrases mentioned into chapters 2 and 3: None

Origin: This data sheet was based on information supplied by the distributor.

This sheet rounds off the technical instructions but does not replace them. The information given above is based on the present state of our knowledge and experience relating to the product involved at the time of updating. It is provided in good faith. The attention of users moreover is drawn to possible risks encountered if this product is used for purposes other than those for which it was designed. Under no circumstances does this sheet release users from knowing and applying all regulations governing their businesses.