

SAFETY DATA SHEET

Date of issue / date of revision: 27 November 2024

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II/ Regulation SI 2019/758 - United Kingdom: Great Britain

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name:

Product code:

Product type: liquid

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

Professional use as fertiliser at farm – loading and spreading

Professional formulation of fertiliser products

Uses advised against: None identified.

1.3 Details of the supplier of the Safety Data Sheet

Billericay Fertiliser Services Ltd

Ilgars Fertiliser Works, Willow Grove, Woodham Ferrers, Essex CM3 8RD

Telephone number 01245 325849, email fertilisers@bfs.uk.com

1.4 Emergency telephone number 01245 325849

1.5 National advisory body/Poison Centre: Not available.

Section 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition: Mixture.

Classification according to Regulation (CLP/GHS): The product is classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

2.2 Label elements



Signal word: WARNING

Hazard statements: H319 Causes serious eye irritation

Precautionary statements

General: Wear eye protection, wash hands thoroughly after handling

Response: IF IN EYES, rinse cautiously with water for several minutes, remove contact lenses, rinsing.

If eye irritation persists get medical attention.

Supplemental label elements: Safety data sheet available on request.

EU Regulation (EC) No.1907/2006 (REACH) Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances mixtures and articles: Not applicable.

2.3 Other hazards

Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII: Not applicable.

Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII: Not applicable.

The mixture does not contain any substances that are assessed to be a PBT or a vPvB

Other hazards which do not result in classification: DO NOT allow any pump handling the product to run dry or over-heat e.g. due to blockage or closed valve in the associated lines, resulting in pumping against a dead-end. Under such conditions if over-heating occurs this may cause vaporization and possible decomposition of the product. This can create pressure build-up in the pump and, if unchecked, lead to an explosion. Ensure that the pump is used correctly according to the manufacturer's instructions at all times when pumping the product.

Section 3: Composition/Information on ingredients

3.1 Mixtures: Mixture.

Product / ingredient name	Identifiers	%	Classification: Regulation (EC) No. 1272/2008 [CLP]	Type
Ammonium nitrate	RRN: 01-2119490981-27 EC: 229-347-8 CAS: 6484-52-2	>=35- <45	Ox. Sol. 3, H272 Eye Irrit. 2, H319	[1]

Type: [1] Substance classified with a health or environmental hazard.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

See section 16 for statement declared above.

Section 4: First aid measures

4.1 Description of first aid measures

Eye contact: Rinse with plenty of running water. Check for and remove any contact lenses. Blink frequently. Get medical treatment if irritation occurs.

Inhalation: Avoid inhalation of vapour, spray or mist. If inhaled, remove to fresh air. Get medical attention if you feel unwell.

Skin contact: Take off contaminated clothing and wash exposed skin areas with mild soap and water, Rinse with warm water. Consult a doctor if irritation develops.

Ingestion: Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Get medical attention if adverse health effects persist or are severe.

Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

Eye contact: Adverse symptoms may include the following: pain or irritation, watering redness.

Inhalation: Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

Skin contact: No known significant effects or critical hazards.

Ingestion: No known significant effects or critical hazards.

Over-exposure signs/symptoms

No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments: No specific data.

Section 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media: None identified.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture: No particular dangers in normal use.

Hazardous thermal decomposition products: Decomposition products may include the following materials: carbon dioxide, carbon monoxide, nitrogen oxides, sulphur oxides, ammonia. Avoid breathing dusts, vapours or fumes from burning materials. In case of inhalation of decomposition products in a fire, symptoms may be delayed.

5.3 Advice for firefighters

Special precautions for firefighters: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for firefighters: Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive mode. Clothing for firefighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

Additional information: None.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: No action shall be taken involving personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering.

Do not touch or walk through spilled material. Avoid all contact with skin, eyes and clothing. Put on appropriate personal protective equipment.

For emergency responders: If specialised clothing is required to deal with the spillage, take note of information in Section 8. See also information in “For non-emergency personnel”.

6.2 Environmental precautions: Avoid dispersal. Clean up any spills as soon as possible, using an absorbent material to collect it. Prevent entry into sewers and drinking water or into public waters. Assure conformity with the local regulations before discharging into sewage treatment facilities. Inform the competent authorities.

6.3 Methods and materials for containment and cleaning up

Clean up any spills as soon as possible, using an absorbent material to collect it.

Small spill: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water soluble. If water insoluble absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill: Stop leak if without risk. Approach release from upwind. Prevent entry into sewers and water courses, confined spaces, Contain and collect spillage with non-combustible absorbent material e.g. sand, earth. Wash spillage into an effluent treatment plant or contain and collect spillage with non-combustible absorbent material and place in container for disposal via the local regulations. Contaminated absorbent material may pose the same hazard.

6.4 Reference to other sections

See section 1 for emergence contact information. See section 8 for information on appropriate personal protective equipment. See section 13 for additional waste treatment information.

Section 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Not for human or animal consumption

Protective measures and general occupational health : Put on appropriate personal protective equipment (see Section 8). Do not ingest Eating, Avoid contact with eyes, skin, and clothing, Avoid breathing vapor or mist, drinking and smoking should be prohibited in area where this material is handled, stored and processed. Workers should wash hands and faces before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Recommendations: Assure general extraction or ventilation of the premises in order to reduce the concentration of vapours, away from direct sunlight, food, drink and incompatible materials. Keep container tightly sealed until ready to use. If opened, must be resealed to prevent any leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. Bund storage facilities to prevent soil and water pollution in the event of spillage. The tank/container should be placed within a bunded area which should be able to contain the full content of the tank/container.

7.3 Specific end use(s)

Recommendations: Store in segregated area. Do not store above 60°C temperatures.

Industrial sector: no specific risk management measures identified beyond those operational conditions.

Section 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits: In general avoid any unnecessary exposure. No known exposure limits.

8.2 Exposure controls

Good ventilation should be sufficient to control worker exposure to airborne contaminants.

Process conditions: Provide eyewash station, washing facility or water for eye and skin cleaning, wash hands thoroughly after handling chemical, wash contaminated clothing.

Engineering measures: Provide adequate ventilation to control worker exposure to airborne contaminants.

Hand protection: Wear appropriate chemical-resistant gloves.

Eye protection: Wear anti-splash glasses (or) safety glasses complying with approved standard, this is to avoid exposure to liquid splashes, mists. Recommended Tightly fitting goggles CEN EN166.

Other protection: Chemical resistant, impervious gloves complying with an approved standard to be worn at all times. Body protection Full PPE for the body should be selected based on the task in question. Appropriate footwear and any additional skin protection measures should be selected based on the task.

Respiratory protection: In case of inadequate ventilation wear respiratory protection.

Hygiene measures: Wash hands at end of each work shift and before eating, smoking or using the toilet.

Environmental exposure controls: Emissions from ventilation or work process should be checked to ensure complying with environmental protection

Personal protective equipment

(Pictograms)



Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state: Liquid.

Colour: Clear, colour may vary

Odour: Odourless or slight ammoniacal.

Ph: 6-8

Density: 1.2-1.3 g/cm³

Melting point/freezing point: -9 °C

Initial boiling point range: 121°C

Flammability (solid, gas): Non-flammable.

Vapour pressure: 6.99825 hPa @20°C

Explosive properties Non-explosive

9.2 Other information

No additional information.

Section 10: Stability and reactivity

10.1 Reactivity: No hazardous reactions if stored and handled according to the advice and recommendations.

10.2 Chemical stability: The product is chemically stable under the recommended storage conditions.

10.3 Possibility of hazardous reactions: During the action of acids or through heating, there may be emanations of formaldehyde, which may act as a sensitizer and irritant.

10.4 Conditions to avoid: Exposure to elevated temperatures or contact with strong acids may cause polymerization – non-explosive – of the fertiliser.

10.5 Incompatible materials: Substances to avoid: alkalis combustible material, urea reacts with calcium hypochlorite. Organic peroxides, strong bases, strong acids, acids anhydrides, amino derivatives.

10.6 Hazardous decomposition products: Under normal conditions of storage and use, hazardous decomposition products should not be produced Thermal decomposition may generate formaldehyde and carbon monoxide, ammonia, nitrogen oxide and hydrocyanic acid.

Section 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product / ingredient name	Result	Species	Dose	Exposure	References
Ammonium nitrate	LD50 Oral	Rat	2,950 mg/kg OECD 401	Not applicable	CSR
	LD50 Dermal	Rat	>5,000 mg/kg OECD 402	Not applicable	

Conclusion/summary: No known significant effects or critical hazards.

Acute toxicity estimates

Irritation/corrosion

Product / ingredient name	Result	Species	Result	Exposure	References
Ammonium nitrate	OECD 405 eyes	Rabbit	Irritant	Not applicable	CSR

Conclusion/summary: No known significant effects or critical hazards.

Skin: No known significant effect or critical hazards

Eyes: Causes serious eye irritation

Respiratory: No known significant effects or critical hazards

Sensitisation: No known significant effects or critical hazards.

Mutagenicity: No known significant effects or critical hazards.

Carcinogenicity: No known significant effects or critical hazards.

Reproductive toxicity: No known significant effects or critical hazards.

Potential acute health effects

Inhalation: Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

Ingestion: Irritating to mouth, throat and stomach

Skin contact: No known significant effects or critical hazards.

Eye contact: Causes serious eye irritation

Section 12: Ecology information

12.1 Toxicity

Conclusion/summary: No known significant effects or critical hazards.

12.2 Persistence and degradability

Conclusion/summary: No known significant effects or critical hazards.

12.3 Bio accumulative potential

Conclusion/summary: No known significant effects or critical hazards.

12.4 Mobility in soil: Not available.

12.5 Results of PBT and vPvB assessment: This mixture does not contain any substances that are assessed to be PST or vPvB.

12.6 Other adverse effects: No known significant effects or critical hazards.

Section 13: Disposal considerations

13.1 Waste treatment methods

Methods of disposal: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal regulations and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste: This product is regarded as hazardous waste.

Section 14: Transport information

14.1 General: This product is not hazardous for transportation.

14.2 Special precautions for user: Transport within user's premises. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Section 15: Regulatory information

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

EU Regulation (EC) SI 2019/720 (REACH) Annex XIV – List of substances subject to authorisation Annex XIV: None of the components are listed.

EU Regulation (EC) SI 2019/720 (REACH) Annex XVII – Restrictions on the manufacture, placing market and the use of certain dangerous substances mixture and articles: Applicable, Table 65.

National regulations

Notes: To our knowledge no other country or state specific regulations are applicable.

15.2 Chemical safety assessment: This product contains substances for which Chemical Safety Assessments are still required.

Section 16: Other information

16.1 Procedure used to derive the classification according to Regulation (EC) No 2019/720 (CLP/GHS)

Full text of abbreviated H statements: H272 May intensify fire, oxidizer, H319 Causes serious eye irritation.

Full text of classification (CLP/GHS): Ox. sol 3 = Oxidizing solid - category 3 Eye Irr 2 = Serious eye damage/eye irritation – category 2.

General information: Only trained personnel should use this product

Date of printing:

Date of issue/date of revision:

Date of previous issue:

Version:

Prepared by: Billericay Fertiliser Services Ltd

NB: To the best of our knowledge, the information provided in this Safety Data Sheet is accurate as at the date of its issue. The information it contains is being given for safety guidance purposes and relates only to the specific material and uses described in it. This information does not necessarily apply to that material when combined with other material(s) or when used otherwise than as described herein, since all materials may represent unknown hazards and should be used with caution. Final determination of the suitability of any material is the sole responsibility of the user.