

SAFETY DATA SHEET

according to Regulation (EU) 2015/830

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Nutri-gem

Revision 11
Revision date 01-12-2022

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

1.1. Product identifier

Product name Nutri-gem

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

Description Fertiliser.

1.3. Details of the supplier of the safety data sheet

Company	Omex Agriculture Ltd
Address	Bardney Airfield Tupholme Lincoln LN3 5TP United Kingdom
Web	www.omex.co.uk
Telephone	01526 396000
Fax	01526 396001
Email	enquire@omex.com
Email address of the competent person	Safety@omex.com

1.4. Emergency telephone number

Emergency telephone number 01526 396000
9 - 5 Mon - Fri

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.1. Classification - 1999/45/EC	Xi; R36 Symbols: Xi: Irritant.
Main hazards	Irritating to eyes.
2.1.2. Classification - EC 1272/2008	Skin Irrit. 2: H315; Eye Irrit. 2: H319;

2.2. Label elements

Hazard pictograms	
Signal Word	Warning
Hazard Statement	Skin Irrit. 2: H315 - Causes skin irritation. Eye Irrit. 2: H319 - Causes serious eye irritation.
Precautionary Statement: Prevention	P264 - Wash thoroughly after handling. P280 - Wear protective gloves/protective clothing/eye protection/face protection.

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2.2. Label elements

Precautionary Statement: Response	P302+P352 - IF ON SKIN: Wash with plenty of water/ . P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P321 - Specific treatment (see on this label). P332+P313 - If skin irritation occurs: Get medical advice/attention. P337+P313 - If eye irritation persists: Get medical advice/attention.
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2.3. Other hazards

Other hazards	None.
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SECTION 3: Composition/information on ingredients

3.2. Mixtures

67/548/EEC / 1999/45/EC

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification	M-factor.
Potassium Nitrate		7757-79-1	231-818-8		20 - 30%	O; R8	
Ammonium Nitrate		6484-52-2	229-347-8		10 - 20%	O; R8-9 Xi; R36/37/38	
Magnesium Nitrate Hexahydrate		13446-18-9	233-826-7	01-2119491164-38	1 - 10%	Xi; R36	
Zinc disodium ethylenediaminetetraacetate (Zinc EDTA)		14025-21-9	237-865-0		0 - 0.5%		
Sodium metabisulphite (Disodium disulphite)	016-063-00-2	7681-57-4	231-673-0		0 - 0.5%	Xn; R22 Xi; R41 R31	
Cobalt disodium ethylenediaminetetraacetate (Cobalt EDTA)		15137-09-4	239-198-0		0 - 0.5%	Xn; R40 Xi; R36/38	
Sodium Molybdate		7631-95-0	231-551-7		0 - 0.5%	Xi; R36/37/38	

EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification	M-factor.
Potassium Nitrate		7757-79-1	231-818-8		20 - 30%	Ox. Sol. 3: H272;	
Ammonium Nitrate		6484-52-2	229-347-8		10 - 20%	Ox. Sol. 1: H271; Skin Irrit. 2: H315; Eye Irrit. 2: H319; STOT SE 3: H335;	
Magnesium Nitrate Hexahydrate		13446-18-9	233-826-7	01-2119491164-38	1 - 10%	Eye Irrit. 2: H319;	

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	May cause irritation to mucous membranes. Move the exposed person to fresh air.
Eye contact	May cause irritation to eyes. Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention if irritation or symptoms persist.
Skin contact	May cause irritation to skin. Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.
Ingestion	May cause irritation to mucous membranes. DO NOT INDUCE VOMITING. Seek medical attention if irritation or symptoms persist.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation	May cause irritation to respiratory system.
Eye contact	May cause irritation to eyes.
Skin contact	May cause irritation to skin.
Ingestion	May cause irritation to mucous membranes.

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

Inhalation	Inhalation of vapour may cause shortness of breath. Seek medical attention if irritation or
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Eye contact	symptoms persist.
Skin contact	Rinse immediately with plenty of water.
Ingestion	No sensitization effects reported. Wash with soap and water.
	May cause irritation to mucous membranes.

SECTION 5: Firefighting measures**5.1. Extinguishing media**

	Use extinguishing media appropriate to the surrounding fire conditions.
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5.2. Special hazards arising from the substance or mixture

	Burning produces irritating, toxic and obnoxious fumes.
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5.3. Advice for firefighters

	Wear suitable respiratory equipment when necessary.
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SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

	Ensure adequate ventilation of the working area.
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6.2. Environmental precautions

	Do not allow product to enter drains. Prevent further spillage if safe.
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6.3. Methods and material for containment and cleaning up

	Absorb with inert, absorbent material. Sweep up. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.
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6.4. Reference to other sections

	See section 2, 8, 13 for further information.
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SECTION 7: Handling and storage**7.1. Precautions for safe handling**

	Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. Adopt best Manual Handling considerations when handling, carrying and dispensing.
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7.2. Conditions for safe storage, including any incompatibilities

	Keep in a cool, dry, well ventilated area. Keep containers tightly closed. Store in correctly labelled containers.
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7.3. Specific end use(s)

	Fertiliser.
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SECTION 8: Exposure controls/personal protection**8.1. Control parameters****8.1.1. Exposure Limit Values**

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8.1.1. Exposure Limit Values

Cobalt disodium ethylenediaminetetraacetate (Cobalt EDTA)	WEL 8-hr limit ppm: WEL 15 min limit ppm: WEL 8-hr limit mg/m3 total - inhalable dust: WEL 8-hr limit mg/m3 total - respirable dust:	WEL 8-hr limit mg/m3: 0.1 WEL 15 min limit mg/m3: WEL 15 min limit mg/m3 total - inhalable dust: WEL 15 min limit mg/m3 total - respirable dust:
Potassium Nitrate	WEL 8-hr limit ppm: WEL 15 min limit ppm: WEL 8-hr limit mg/m3 total - inhalable dust: WEL 8-hr limit mg/m3 total - respirable dust:	WEL 8-hr limit mg/m3: 20.8 WEL 15 min limit mg/m3: 10 WEL 15 min limit mg/m3 total - inhalable dust: WEL 15 min limit mg/m3 total - respirable dust:
Sodium metabisulphite (Disodium disulphite)	WEL 8-hr limit ppm: - WEL 15 min limit ppm: - WEL 8-hr limit mg/m3 total - inhalable dust: WEL 8-hr limit mg/m3 total - respirable dust:	WEL 8-hr limit mg/m3: 5 WEL 15 min limit mg/m3: - WEL 15 min limit mg/m3 total - inhalable dust: WEL 15 min limit mg/m3 total - respirable dust:
Sodium Molybdate	WEL 8-hr limit ppm: WEL 15 min limit ppm: WEL 8-hr limit mg/m3 total - inhalable dust: WEL 8-hr limit mg/m3 total - respirable dust:	WEL 8-hr limit mg/m3: 5 As Mo WEL 15 min limit mg/m3: WEL 15 min limit mg/m3 total - inhalable dust: WEL 15 min limit mg/m3 total - respirable dust:
Zinc disodium ethylenediaminetetraacetate (Zinc EDTA)	WEL 8-hr limit ppm: WEL 15 min limit ppm: WEL 8-hr limit mg/m3 total - inhalable dust: WEL 8-hr limit mg/m3 total - respirable dust:	WEL 8-hr limit mg/m3: 10 WEL 15 min limit mg/m3: 3 WEL 15 min limit mg/m3 total - inhalable dust: WEL 15 min limit mg/m3 total - respirable dust:

8.2. Exposure controls

	
8.2.1. Appropriate engineering controls	Ensure adequate ventilation of the working area.
8.2.2. Individual protection measures	Wear protective clothing.
Eye / face protection	In case of splashing, wear:.. Approved safety goggles.
Skin protection - Handprotection	Chemical resistant gloves (PVC).

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

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9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Green
Odour	Characteristic
pH	4.5 - 6.5
Melting point	Not determined
Initial boiling point	Not determined
Flash point	Not applicable.
Evaporation rate	Not determined
Flammability (solid, gas)	Not applicable.
Vapour pressure	Not determined
Vapour density	Not determined
Relative density	1.5 - 1.54
Partition coefficient	Not determined
Autoignition temperature	Not applicable.
Viscosity	Not determined
Explosive properties	Not applicable.
Oxidising properties	Not applicable.
Solubility	Soluble in water

9.2. Other information

Conductivity	Not relevant
Surface tension	Not determined
Specific gravity	1.5 - 1.54
Gas group	Not determined
Benzene Content	Not relevant
Lead content	Not relevant
VOC (Volatile organic compounds)	Not relevant

Water solubility

	Soluble in water. completely soluble.
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SECTION 10: Stability and reactivity

10.1. Reactivity

	Avoid contact with: Strong bases.
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10.2. Chemical stability

	Stable under normal conditions.
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10.3. Possibility of hazardous reactions

	No data is available on this product.
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10.4. Conditions to avoid

	Burning produces obnoxious and irritating fumes.
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10.5. Incompatible materials

	Strong bases.
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10.6. Hazardous decomposition products

	No data is available on this product.
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

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11.1. Information on toxicological effects

Acute toxicity	No data is available on this product.
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11.1.4. Toxicological Information

Ammonium Nitrate	Dermal Rat LD50: 2950 mg/kg	Oral Rat LD50: 2000 mg/kg
Cobalt disodium ethylenediaminetetraacetate	Oral Rat LD50: 6671mg/kg	
Magnesium Nitrate Hexahydrate	Dermal Rat LD50: >5000 mg/kg	Oral Rat LD50: >2000 mg/kg
Potassium Nitrate	Dermal Rat LD50: 2000 Inhalation Rat LC50/4 h: 527 mg/m3	Oral Rat LD50: 2000
Sodium Molybdate	Oral Rat LD50: 520mg/kg	
Zinc disodium ethylenediaminetetraacetate	Inhalation Rat LC50/4 h: 2.75	Oral Rat LD50: 5000mg/kg

SECTION 12: Ecological information

12.1. Toxicity

Ammonium Nitrate	Fish LC50/96h: 100 mg/l	Algae LC50/96h: 1700
Magnesium Nitrate Hexahydrate	Daphnia EC50/48h: 490.0000 mg/l	Fish LC50/96h: 1378.0000 mg/l
Potassium Nitrate	Daphnia EC50/48h: 490.0000 mg/l Fish LC50/96h: 1378.0000 mg/l	Algae IC50/72h: 1700.0000 mg/l
Sodium Molybdate	Fish LC50/96h: 79.8000 mg/l	

	No data is available on this product.
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12.2. Persistence and degradability

	Readily biodegradable.
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12.3. Bioaccumulative potential

	No data is available on this product.
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Partition coefficient

	Nutri-gem Not determined Ammonium Nitrate Not applicable. Zinc disodium ethylenediaminetetraacetate No data available	Potassium Nitrate Not applicable. Magnesium Nitrate Hexahydrate No data available
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12.4. Mobility in soil

	Miscible in water.
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12.5. Results of PBT and vPvB assessment

	Caution - substance not yet fully tested.
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12.6. Other adverse effects

	May cause long-term adverse effects in the aquatic environment.
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SECTION 13: Disposal considerations

General information

	Dispose of in compliance with all local and national regulations.
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Disposal methods

	Contact a licensed waste disposal company.
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Disposal of packaging

	Do NOT reuse empty containers. Empty containers can be sent for disposal or recycling.
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SECTION 14: Transport information

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14.1. UN number

	The product is not classified as dangerous for carriage.
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14.2. UN proper shipping name

	The product is not classified as dangerous for carriage.
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14.3. Transport hazard class(es)

	The product is not classified as dangerous for carriage.
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14.4. Packing group

	The product is not classified as dangerous for carriage.
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14.5. Environmental hazards

	The product is not classified as dangerous for carriage.
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14.6. Special precautions for user

	The product is not classified as dangerous for carriage.
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14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

	The product is not classified as dangerous for carriage.
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SECTION 15: Regulatory information

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

Regulations	REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC. COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.
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15.2. Chemical safety assessment

	No data is available on this product.
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SECTION 16: Other information

Other information

Revision	This document differs from the previous version in the following areas:. 2 - 2.1. Classification of the substance or mixture. 2 - 2.1.2. Classification - EC 1272/2008. 2 - Hazard pictograms. 2 - Signal Word. 2 - Precautionary Statement: Prevention. 2 - Precautionary Statement: Response. 12 - 12.1. Toxicity. 15 - Labelling. 15 - Risk phrases.
Text of risk phrases in Section 3	R8 - Contact with combustible material may cause fire. R9 - Explosive when mixed with combustible material. R22 - Harmful if swallowed. R31 - Contact with acids liberates toxic gas. R36/37/38 - Irritating to eyes, respiratory system and skin. R36/38 - Irritating to eyes and skin. R36 - Irritating to eyes. R40 - Limited evidence of a carcinogenic effect.

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Other information

Text of Hazard Statements in Section 3	R41 - Risk of serious damage to eyes.
	Ox. Sol. 3: H272 - May intensify fire; oxidiser.
	Ox. Sol. 1: H271 - May cause fire or explosion; strong oxidiser.
	Skin Irrit. 2: H315 - Causes skin irritation.
	Eye Irrit. 2: H319 - Causes serious eye irritation.
STOT SE 3: H335 - May cause respiratory irritation.	

Further information

	The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.
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