

# SAFETY DATA SHEET

according to Regulation (EU) 2015/830

Page 1/8

## Nutri-gem

Revision 11  
Revision date 2017-01-19

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

#### 1.1. Product identifier

Product name	Nutri-gem
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#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Description	Fertiliser.
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#### 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
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### 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.

## Nutri-gem

Revision 11

Revision date 2017-01-19

## 2.2. Label elements

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

<b>Other hazards</b>	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

<b>Inhalation</b>	May cause irritation to mucous membranes. Move the exposed person to fresh air.
<b>Eye contact</b>	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.
<b>Skin contact</b>	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.
<b>Ingestion</b>	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

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

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

<b>Inhalation</b>	Inhalation of vapour may cause shortness of breath. Seek medical attention if irritation or
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## Nutri-gem

Revision 11  
Revision date 2017-01-19**4.3. Indication of any immediate medical attention and special treatment needed**

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**

## Nutri-gem


Revision 11

Revision date 2017-01-19

## 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

## Nutri-gem

Revision 11  
Revision date 2017-01-19

## 9.1. Information on basic physical and chemical properties

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

## 9.2. Other information

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

## Nutri-gem

Revision 11  
Revision date 2017-01-19

## 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

## Nutri-gem

Revision 11  
Revision date 2017-01-19

## 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.

## Nutri-gem

Revision 11

Revision date 2017-01-19

## Other information

<b>Text of Hazard Statements in Section 3</b>	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.
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## 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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