



SAFETY DATA SHEET

according to Regulation (EU) 2020/878

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CalMax Ultra

Revision 4

Revision date 2023-11-29

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

1.1. Product identifier

Product name	CalMax Ultra
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1.2. Relevant identified uses of the substance or mixture and uses advised against

Product Use	[SU22] Professional uses: Public domain (administration, education, entertainment, services, craftsmen); [SU1] Agriculture, forestry, fishery;
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	+44 (0) 1553817500
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.2. Classification - EC 1272/2008	Eye Dam. 1: H318;
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2.2. Label elements

Hazard pictograms	
Signal Word	Danger
Hazard Statement	Eye Dam. 1: H318 - Causes serious eye damage.
Precautionary Statement: Prevention	P280 - Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary Statement: Response	P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 -Immediately call a POISON CENTER/doctor/ .

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2.3. Other hazards

Other hazards	No data is available on this product.
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SECTION 3: Composition/information on ingredients

3.2. Mixtures

EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
Calcium nitrate		15245-12-2	239-289-5	01-2119493947-16		Acute Tox. 4: H302; Eye Dam. 1: H318;
AXM		9004-78-8	931-997-9			Acute Tox. 4: H302;
Monoethylene Glycol (Ethane-1,2-diol particulate)		107-21-1	203-473-3	01-2119456816-28		
Manganese Nitrate Solution		10377-66-9	233-828-8	01-2119487993-17		Acute Tox. 4: H302; Skin Corr. 1C: H314; Eye Dam. 1: H318; STOT RE 2: H373; Repr. 1B: H360FD;
boric acid	005-007-00-2	10043-35-3	233-139-2			
Sodium metabisulphite (Disodium disulphite)	016-063-00-2	7681-57-4	231-673-0	01-2119531326-45		Acute Tox. 4: H302; Eye Dam. 1: H318;

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move the exposed person to fresh air. Seek medical attention if irritation or symptoms persist.
Eye contact	Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention.
Skin contact	Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.
Ingestion	DO NOT INDUCE VOMITING. Rinse mouth thoroughly. Never give anything by mouth to an unconscious person. 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	Causes serious eye damage.
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	Move the exposed person to fresh air. Seek medical attention if irritation or symptoms persist.
Eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention.
Skin contact	Remove contaminated clothing. Wash off immediately with plenty of soap and water. Seek medical attention if irritation or symptoms persist.
Ingestion	DO NOT INDUCE VOMITING. Rinse mouth thoroughly. Never give anything by mouth to an unconscious person. Seek medical attention if irritation or symptoms persist.

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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Ensure adequate ventilation of the working area. Adopt best Manual Handling considerations when handling, carrying and dispensing. Avoid contact with eyes and skin.

6.2. Environmental precautions

Do not allow product to enter drains. Prevent further spillage if safe. Do not flush into surface water.

6.3. Methods and material for containment and cleaning up

Absorb with inert, absorbent material. Sweep up. Transfer to suitable, labelled containers for disposal. Do not allow runoff water to enter sewers or drains.

6.4. Reference to other sections

See section 2, 8, 13 for further information.

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Ensure adequate ventilation of the working area. Avoid contact with eyes and skin. Adopt best Manual Handling considerations when handling, carrying and dispensing.

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.

Suitable packaging

Plastic containers.

7.3. Specific end use(s)

Fertilisers.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters**

Occupational exposure controls.

8.1.1. Exposure Limit Values

Calcium nitrate	WEL 8-hr limit ppm:	WEL 8-hr limit mg/m ³ : 24.5
	WEL 15 min limit ppm:	WEL 15 min limit mg/m ³ : 6.3
	WEL 8-hr limit mg/m ³ total - inhalable dust:	WEL 15 min limit mg/m ³ total - inhalable dust:
	WEL 8-hr limit mg/m ³ total - respirable dust:	WEL 15 min limit mg/m ³ total - respirable dust:
	WEL 8-hr limit ppm: -	WEL 8-hr limit mg/m ³ : 10
Monoethylene Glycol (Ethane-1,2-diol particulate)	WEL 15 min limit ppm: -	WEL 15 min limit mg/m ³ : -
	WEL 8-hr limit mg/m ³ total - inhalable dust:	WEL 15 min limit mg/m ³ total - inhalable dust:
	WEL 8-hr limit mg/m ³ total - respirable dust:	WEL 15 min limit mg/m ³ total - respirable dust:
	WEL 8-hr limit ppm: 20	WEL 8-hr limit mg/m ³ : 52
	WEL 15 min limit ppm: 40	WEL 15 min limit mg/m ³ : 104
Monoethylene Glycol (Ethane-1,2-diol vapour)	WEL 8-hr limit mg/m ³ total - inhalable dust:	WEL 15 min limit mg/m ³ total - inhalable dust:
	WEL 8-hr limit mg/m ³ total - respirable dust:	WEL 15 min limit mg/m ³ total - respirable dust:

DNEL: Derived no-effect level.

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Exposure Pattern - Workers

Monoethylene Glycol	<p>Acute inhalation - Systemic effects 35 mg/m³</p> <p>Long-term - dermal - Systemic effects 106 mg/kg</p>
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Exposure Pattern - General population

Monoethylene Glycol	<p>Long-term - inhalation - Systemic effects 7 mg/kg</p> <p>Long-term - dermal - Systemic effects 53 mg/kg</p>
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8.2. Exposure controls

8.2.1. Appropriate engineering controls	Ensure adequate ventilation of the working area.
8.2.2. Individual protection measures	Adopt best Manual Handling considerations when handling, carrying and dispensing. Avoid contact with eyes and skin. Wear chemical protective clothing.
Eye / face protection	Approved safety goggles.
Skin protection - Handprotection	Chemical resistant gloves (PVC).
Respiratory protection	Not normally required. Wear: Suitable respiratory equipment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Green
Odour	Mild
Flash point	Not applicable.
pH	5.5 - 7.05
Flammability (solid, gas)	Not applicable.
Melting point	No data available
Initial boiling point	100 °C
Density / Relative Density	1.47 - 1.51 (H ₂ O = 1 @ 20 °C)
Odour threshold	Not applicable.
Autoignition temperature	No data available
Freezing Point	-2 °C
Explosive properties	No data available
Fat Solubility	Not determined
Oxidising properties	No data available
Vapour pressure	No data available
Solubility	Soluble in water
Partition coefficient (P)	No data available
Viscosity	No data available
Relative Vapour Density	No data available
Evaporation rate	No data available

9.2. Other information

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9.2. Other information

VOC (Volatile organic compounds)	Not applicable.
Benzene Content	Not applicable.
Conductivity	No data available
Lead content	Not applicable.
Specific gravity	1.47 - 1.51 g/cm ³
Gas group	No data available
Surface tension	No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

	Stable under normal conditions.
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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

	No data is available on this product.
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10.5. Incompatible materials

	Strong acids. Strong bases. Will not decompose if stored and used as recommended.
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10.6. Hazardous decomposition products

	Burning produces irritating, toxic and obnoxious fumes.
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SECTION 11: Toxicological information

11.1 Information on hazard classes

Acute toxicity	May cause irritation to mucous membranes.
Skin corrosion/irritation	May cause irritation to skin.
Serious eye damage/irritation	Causes serious eye damage.
Respiratory or skin sensitisation	No data is available on this product.
Germ cell mutagenicity	No data is available on this product.
Carcinogenicity	No data is available on this product.
Reproductive toxicity	No data is available on this product.
STOT-single exposure	No data is available on this product.
STOT-repeated exposure	Avoid prolonged or repeated exposure.
Aspiration hazard	No data is available on this product.
Repeated or prolonged exposure	No data is available on this product.

11.1.4. Toxicological Information

	No data available
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SECTION 12: Ecological information

12.1. Toxicity

Calcium nitrate	Daphnia EC50/48h: 100.0000 mg/l	Algae EC50/72h: 100
	Guppy LC50/48h: 447	
Monoethylene Glycol	Daphnia LC50/48h: >100mg/l	Fathead minnows LC50/96h: 72860mg/l

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12.2. Persistence and degradability

No data is available on this product.

12.3. Bioaccumulative potential

No data is available on this product.

12.4. Mobility in soil

No data is available on this product.

12.5. Results of PBT and vPvB assessment

No data is available on this product.

12.6 Endocrine disrupting properties

No data is available on this product.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

This material and its container must be disposed of in a safe way.

General information

Contact a licensed waste disposal company.

Disposal methods

Do not empty into drains; dispose of this material and its container in a safe way.

Disposal of packaging

Do NOT reuse empty containers. This material and its container must be disposed of in a safe way.

SECTION 14: Transport information

14.1. UN number

The product is not classified as dangerous for carriage.

14.2. UN proper shipping name

The product is not classified as dangerous for carriage.

14.3. Transport hazard class(es)

The product is not classified as dangerous for carriage.

14.4. Packing group

The product is not classified as dangerous for carriage.

14.5. Environmental hazards

The product is not classified as dangerous for carriage.

14.6. Special precautions for user

The product is not classified as dangerous for carriage.

14.7 Maritime Transport in bulk according to IMO instruments

The product is not classified as dangerous for carriage.

SECTION 15: Regulatory information

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

Regulations

COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). 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

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

(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.

15.2. Chemical safety assessment

No data is available on this product.

SECTION 16: Other information

Other information

Revision	This document differs from the previous version in the following areas: 9 - 9.1. Information on basic physical and chemical properties (Fat Solubility).
Text of Hazard Statements in Section 3	Acute Tox. 4: H302 - Harmful if swallowed. Eye Dam. 1: H318 - Causes serious eye damage. STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure . Skin Corr. 1C: H314 - Causes severe skin burns and eye damage. Repr. 1B: H360FD - May damage fertility. May damage the unborn child. EUH031 - Contact with acids liberates toxic gas.

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.