



## SAFETY DATA SHEET

according to Regulation (EU) 2020/878

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### Omex CalMax

Revision 18

Revision date 2023-02-07

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

##### 1.1. Product identifier

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

Product Use	[SU21] Consumer uses: Private households (= general public = consumers); [SU1] Agriculture, forestry, fishery; [PC12] Fertilizers; [ERC8e] Wide dispersive outdoor use of reactive substances in open systems; ----- [SU3] Industrial uses: Uses of substances as such or in preparations at industrial sites; [SU10] Formulation [mixing] of preparations and/or re-packaging (excluding alloys); [PC12] Fertilizers; [PROC5] Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact); [ERC2] Formulation of preparations; ----- [SU22] Professional uses: Public domain (administration, education, entertainment, services, craftsmen); [SU1] Agriculture, forestry, fishery; [PC12] Fertilizers; [ERC8e] Wide dispersive outdoor use of reactive substances in open systems; ----- [SU3] Industrial uses: Uses of substances as such or in preparations at industrial sites; [SU1] Agriculture, forestry, fishery; [PC12] Fertilizers; [PROC19] Hand-mixing with intimate contact and only PPE available; [ERC8e] Wide dispersive outdoor use of reactive substances in open systems;
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

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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/ soap.

## 2.3. Other hazards

Other hazards	None known.
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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	50 - 60%	Acute Tox. 4: H302; Eye Dam. 1: H318;
Monoethylene Glycol		107-21-1	203-473-3	01-2119456816-28	0.5 - 1%	Acute Tox. 4: H302; STOT RE 2: H373;
Manganese Nitrate Solution		10377-66-9	233-828-8	01-2119487993-17	0.5 - 1%	Acute Tox. 4: H302; Skin Corr. 1C: H314; Eye Dam. 1: H318; STOT RE 2: H373;
Boric Acid		10043-35-3	233-139-2	01-2119486683-25		Repr. 1B: H360FD;
Sodium metabisulphite	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	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	Wash affected area thoroughly with 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	Wash affected area thoroughly with soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.

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

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.
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## SECTION 5: Firefighting measures

## 5.1. Extinguishing media

	This product is not flammable. 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. Adopt best Manual Handling considerations when handling, carrying and dispensing. Avoid contact with eyes and skin.
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## 6.2. Environmental precautions

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

	Collect and reuse if possible. Otherwise: Absorb with inert, absorbent material. Sweep up. Transfer to suitable, labelled containers for disposal. To clean the floor and all objects contaminated by this material, use water. Do not allow runoff water to enter sewers or drains.
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## 6.4. Reference to other sections

	Personal protection equipment - See section 8.
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## 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.
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## 7.2. Conditions for safe storage, including any incompatibilities

	Keep in a cool, dry, well ventilated area. Store in correctly labelled containers. Store at temperatures between 5 °C and 20 °C.
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## Suitable packaging

Plastic containers.

## 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

Calcium nitrate	<p>WEL 8-hr limit ppm: -</p> <p>WEL 15 min limit ppm: -</p> <p>WEL 8-hr limit mg/m<sup>3</sup> total - inhalable dust:</p> <p>WEL 8-hr limit mg/m<sup>3</sup> total - respirable dust:</p>	<p>WEL 8-hr limit mg/m<sup>3</sup>: 24.5</p> <p>WEL 15 min limit mg/m<sup>3</sup>: 6.3</p> <p>WEL 15 min limit mg/m<sup>3</sup> total - inhalable dust:</p> <p>WEL 15 min limit mg/m<sup>3</sup> total - respirable dust:</p>
Monoethylene Glycol	<p>WEL 8-hr limit ppm: -</p> <p>WEL 15 min limit ppm: -</p> <p>WEL 8-hr limit mg/m<sup>3</sup> total - inhalable dust:</p> <p>WEL 8-hr limit mg/m<sup>3</sup> total - respirable dust:</p> <p>WEL 8-hr limit ppm: 20</p> <p>WEL 15 min limit ppm: 40</p> <p>WEL 8-hr limit mg/m<sup>3</sup> total - inhalable dust:</p> <p>WEL 8-hr limit mg/m<sup>3</sup> total - respirable dust:</p>	<p>WEL 8-hr limit mg/m<sup>3</sup>: 10</p> <p>WEL 15 min limit mg/m<sup>3</sup>: -</p> <p>WEL 15 min limit mg/m<sup>3</sup> total - inhalable dust:</p> <p>WEL 15 min limit mg/m<sup>3</sup> total - respirable dust:</p> <p>WEL 8-hr limit mg/m<sup>3</sup>: 52</p> <p>WEL 15 min limit mg/m<sup>3</sup>: 104</p> <p>WEL 15 min limit mg/m<sup>3</sup> total - inhalable dust:</p> <p>WEL 15 min limit mg/m<sup>3</sup> total - respirable dust:</p>

DNEL: Derived no-effect level.


## Exposure Pattern - Workers

Monoethylene Glycol	<p>Acute Inhalation - Systemic effects 35 mg/m<sup>3</sup></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.
Eye / face protection	Close fitting eye protection to the E166.4 standard should be worn to minimise contact. A face shield to the E166.3 standard should be worn to minimise contact.
Skin protection - Handprotection	Wear gloves. Gloves must be in accordance with EN374-3, tested with chemical K & L from the standard EN list. Gloves should have a minimum breakthrough time of 60 minutes for short-term handling operations. Consult with your glove supplier for advice on your specific requirements. Good glove hygiene and housekeeping practices should be followed.
Skin protection - Other	Exposed skin should be covered to prevent contact. Clothing to EN14605 standard should be worn where there is a risk of skin contact.
Respiratory protection	Not normally required. Wear respiratory protection if ventilation is inadequate. Respiratory protection should meet EN149 for a half face mask or EN136 for a full face mask, associated filters should meet the EN14387 standard, type B or E. Contact your supplier for advice on your specific application.

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Revision date 2023-02-07**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

<b>Appearance</b>	Liquid
<b>Colour</b>	Green/Dark green
<b>Odour</b>	Slight
<b>Initial boiling point</b>	> 100 °C
<b>pH</b>	5.5 - 6.5
<b>Melting point</b>	No data available
<b>Density / Relative Density</b>	1.48 - 1.52 (H <sub>2</sub> O = 1 @ 20 °C)
<b>Flash point</b>	No data available
<b>Solubility</b>	Soluble in water
<b>Flammability (solid, gas)</b>	No data available
<b>Autoignition temperature</b>	No data available
<b>Explosive properties</b>	No data available
<b>Oxidising properties</b>	No data available
<b>Vapour pressure</b>	No data available
<b>Partition coefficient</b>	No data available
<b>Viscosity</b>	No data available
<b>Relative Vapour Density</b>	No data available
<b>Evaporation rate</b>	No data available
<b>Odour threshold</b>	No data available

**9.2. Other information**

<b>Conductivity</b>	No data available
<b>Gas group</b>	No data available
<b>Surface tension</b>	No data available
<b>VOC (Volatile organic compounds)</b>	No data available
<b>Benzene Content</b>	No data available
<b>Lead content</b>	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**

	Burning produces irritating, toxic and obnoxious fumes.
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**10.5. Incompatible materials**

	Will not decompose if stored and used as recommended.
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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 hazard classes**

<b>Acute toxicity</b>	May cause irritation to mucous membranes.
<b>Skin corrosion/irritation</b>	May cause irritation to skin.

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## 11.1 Information on hazard classes

Serious eye damage/irritation	Causes serious eye damage.
Respiratory or skin sensitisation	May cause irritation to respiratory system.
Germ cell mutagenicity	Not determined. No data is available on this product.
Carcinogenicity	Not determined. 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	No data is available on this product.
Aspiration hazard	Not determined. No data is available on this product.
Repeated or prolonged exposure	No data is available on this product.

## 11.1.3. Hazard Information

	Causes serious eye damage. May cause irritation to skin.
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## 11.1.4. Toxicological Information

Calcium nitrate	Dermal Rat LD50: 3500	Oral Rat LD50: 500
Monoethylene Glycol	Oral Rat LD50: 500 mg/kg Inhalation Rat LC50/4 h: 2.5mg/l	Dermal Rabbit LD50: 10600 mg/kg

## SECTION 12: Ecological information

## 12.1. Toxicity

	No data available	
Boric Acid	NOEC / EC10 for marine or freshwater organisms 6.4000 mg/l LC50 for marine or freshwater organisms 79.7000 mg/l	EC50 for marine or freshwater organisms 52.4000 mg/l
Calcium nitrate	EC50 for marine or freshwater organisms >1000.0000 mg/l	LC50 for marine or freshwater organisms >100.0000 mg/l

	No data is available on this product. May cause long-term adverse effects in the aquatic environment.
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## 12.2. Persistence and degradability

	Warning - this preparation contains a substance not yet tested completely.
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## 12.3. Bioaccumulative potential

	Caution - substance not yet fully tested.
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## Partition coefficient

	Omex CalMax No data available Monoethylene Glycol -1.36 log P	Calcium nitrate No data available
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## 12.4. Mobility in soil

	Caution - substance not yet fully tested.
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## 12.5. Results of PBT and vPvB assessment

	Warning - this preparation contains a substance not yet tested completely.
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## 12.6 Endocrine disrupting properties

	Warning - this preparation contains a substance not yet tested completely.
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## SECTION 13: Disposal considerations

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## 13.1. Waste treatment methods

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

	Do not empty into drains; dispose of this material and its container in a safe way. Contact a licensed waste disposal company.
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## Disposal of packaging

	Do NOT reuse empty containers. Empty containers can be cleaned with water. Containers must be recycled in compliance with national legislation and environmental regulations.
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## SECTION 14: Transport information

## 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 Maritime Transport in bulk according to IMO instruments

	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	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).
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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: 9 - 9.1. Information on basic physical and chemical properties (Colour).
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
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**Further information**

	combination with any other materials or in any other process.
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