

SAFETY DATA SHEET

according to Regulation (EU) 2015/830

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Zynergy

Revision 0
Revision date 2016-07-22

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

1.1. Product identifier

Product name Zynergy

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; R41 N; R51/53 Symbols: Xi: Irritant. N: Dangerous for the environment.
Main hazards	Risk of serious damage to eyes. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
2.1.2. Classification - EC 1272/2008	Eye Dam. 1: H318; Aquatic Chronic 1: H410;

2.2. Label elements

Hazard pictograms



Signal Word

Danger

Hazard Statement

Eye Dam. 1: H318 - Causes serious eye damage.
Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.

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2.2. Label elements

Precautionary Statement: Prevention	P273 - Avoid release to the environment. 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/ . P391 - Collect spillage.
Precautionary Statement: Disposal	P501 - Dispose of contents/container to

2.3. Other hazards

Other hazards	Harmful if swallowed, in contact with skin or if inhaled.
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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.
Citric Acid		5949-29-1	201-069-1		10 - 20%	Xi; R36	
Zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate)	030-006-00-9	7446-19-7	231-793-3		10 - 20%	Xn; R22 Xi; R41 N; R50/53	
Copper sulphate	029-004-00-0	7758-98-7	231-847-6		1 - 10%	Xn; R22 Xi; R36/38 N; R50/53	M=10
Malic Acid		6915-15-7	230-022-8		1 - 10%	Xi; R36	

EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification	M-factor.
Citric Acid		5949-29-1	201-069-1		10 - 20%	Eye Irrit. 2: H319;	
Zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate)	030-006-00-9	7446-19-7	231-793-3		10 - 20%	Acute Tox. 4: H302; Eye Dam. 1: H318; Aquatic Acute 1: H400; Aquatic Chronic 1: H410;	
Copper sulphate	029-004-00-0	7758-98-7	231-847-6		1 - 10%	Acute Tox. 4: H302; Eye Irrit. 2: H319; Skin Irrit. 2: H315; Aquatic Acute 1: H400; Aquatic Chronic 1: H410;	M=10
Malic Acid		6915-15-7	230-022-8		1 - 10%	Eye Irrit. 2: H319;	

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system. Move the exposed person to fresh air. Seek medical attention if irritation or symptoms persist.
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	Harmful if swallowed. DO NOT INDUCE VOMITING. May cause irritation to mucous membranes. Seek medical attention if irritation or symptoms persist.

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

Inhalation	May cause irritation to mucous membranes. May cause irritation to respiratory system.
Eye contact	May cause irritation to eyes.
Skin contact	May cause irritation to skin.
Ingestion	Ingestion is irritating to the respiratory tract and may cause damage to the central nervous system.

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

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

Inhalation	Treat according to symptoms, no known specific antidote.
Eye contact	Inhalation of vapour may cause shortness of breath. Remove the affected person from the source of contamination immediately. Seek medical attention if irritation or symptoms persist.
Skin contact	Rinse immediately with plenty of water for 15 minutes holding the eyelids open.
Ingestion	Wash off immediately with plenty of soap and water.
	Ingestion may cause nausea and vomiting.

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. Wear suitable protective equipment.
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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.
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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**

	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.
Suitable packaging	Plastic containers.

7.3. Specific end use(s)

	Fertiliser.
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SECTION 8: Exposure controls/personal protection**8.2. Exposure controls**

	
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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	Wear suitable protective clothing.
Eye / face protection	In case of splashing, wear: Eye protection. Approved safety goggles.
Skin protection - Handprotection	Chemical resistant gloves (PVC).
Respiratory protection	Wear suitable protective equipment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Aqueous solution
Colour	Blue
Odour	Odourless
Odour threshold	Not applicable.
Melting point	± -2 °C
Initial boiling point	> 100 °C
Flash point	Not applicable.
Evaporation rate	No data available
Flammability (solid, gas)	Not applicable.
Vapour pressure	No data available
Vapour density	No data available
Relative density	1.15 - 1.35 (H2O = 1 @ 20 °C)
Partition coefficient	No data available
Autoignition temperature	Not applicable.
Viscosity	No data available
Explosive properties	Not applicable.
Oxidising properties	Not applicable.
Solubility	Soluble in water

9.2. Other information

Conductivity	No data available
Surface tension	No data available
Gas group	Not applicable.
Benzene Content	Not applicable.
Lead content	Not applicable.
VOC (Volatile organic compounds)	Not applicable.

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

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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 toxicological effects

Acute toxicity	No data is available on this product.
Skin corrosion/irritation	May cause irritation to skin.
Serious eye damage/irritation	May cause irritation to eyes.
Respiratory or skin sensitisation	May cause sensitisation by inhalation and skin contact.
Germ cell mutagenicity	No data available.
Carcinogenicity	Limited evidence of a carcinogenic effect.
Reproductive toxicity	No data available.

11.1.2. Mixtures

	No data is available on this product.
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11.1.3. Hazard Information

	Harmful if swallowed, in contact with skin or if inhaled.
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11.1.4. Toxicological Information

Citric Acid	Oral Rat LD50: 3000mg/kg	Oral Mouse LD50: 5040mg/kg
Copper sulphate	Dermal Rat LD50: >2000mg/kg	Oral Rat LD50: 300mg/kg
Malic Acid	Oral Rat LD50: >3200 mg/kg	
Zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate)	Dermal Rat LD50: >2000 mg/kg	Oral Rat LD50: >574 mg/kg (monohydrate)

SECTION 12: Ecological information

12.1. Toxicity

Citric Acid	Daphnia LC50/24h: 1535 mg/l	
Copper sulphate	Fish LC50/96h: 2.5000 mg/l	Fish LC50/48h: 0.1 ppm
	Rainbow trout LC50/96h: 0.1mg/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

	Zynergy No data available	Citric Acid Not determined
	Zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate) Not applicable.	Copper sulphate Not applicable.
	Malic Acid No data available	

12.4. Mobility in soil

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

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12.5. Results of PBT and vPvB assessment

Warning - this preparation contains a substance not yet tested completely.

12.6. Other adverse effects

Warning - this preparation contains a substance not yet tested completely.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of in compliance with all local and national regulations.

General information

Do NOT reuse empty containers.

Disposal methods

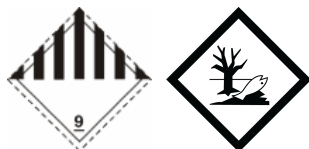
Can be sent to landfill if in compliance with local and national regulations.

Disposal of packaging

Empty containers can be cleaned with water. Empty containers can be sent for disposal or recycling.

SECTION 14: Transport information

Hazard pictograms



14.1. UN number

UN3082

14.2. UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

14.3. Transport hazard class(es)

ADR/RID	9
Subsidiary risk	-
IMDG	9
Subsidiary risk	-
IATA	9
Subsidiary risk	-

14.4. Packing group

Packing group III

14.5. Environmental hazards

Environmental hazards	Yes
Marine pollutant	Yes

ADR/RID

Hazard ID	90
Tunnel Category	(E)

IMDG

EmS Code F-A S-F

IATA

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IATA	
Packing Instruction (Cargo)	964
Maximum quantity	450 L
Packing Instruction (Passenger)	964
Maximum quantity	450 L
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.
15.2. Chemical safety assessment	
	No data is available on this product.
SECTION 16: Other information	
Other information	
Text of risk phrases in Section 3	R22 - Harmful if swallowed. R36/38 - Irritating to eyes and skin. R36 - Irritating to eyes. R41 - Risk of serious damage to eyes. R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Text of Hazard Statements in Section 3	Eye Irrit. 2: H319 - Causes serious eye irritation. Acute Tox. 4: H302 - Harmful if swallowed. Eye Dam. 1: H318 - Causes serious eye damage. Aquatic Acute 1: H400 - Very toxic to aquatic life. Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects. Skin Irrit. 2: H315 - Causes skin 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.