



SAFETY DATA SHEET
SYMBIO LIQUID MAGNESIUM

SDS COMPLETED 1ST JULY 2015

VERSION 01
REVISION NUMBER: N/A

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product Identifier:

Symbio Liquid Magnesium

1.2 Relevant uses of the substance or mixture and uses advised against:

Use as a horticultural/amenity fertiliser

1.3 Details of the supplier of the safety data sheet:

Company name:

Eco Solutions (C&R) Ltd T/a Symbio
Unit 8
Coopers Place
Combe Lane
Wormley
Surrey
GU8 5SZ

Tel: +44 (0) 1428 685762

Fax: +44 (0)1428 685702

Email: info@symbio.co.uk

1.4 Emergency phone number

Phone number: +44 (0) 1428 685762

2. Hazards Identification

2.1 Classification of the substance or mixture

CLASSIFICATION according to Directive EC 1272/2008 Classification, Labelling and Packaging

Not classified.

EUH208 Contains reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3- one [EC no. 220-239-6] (3:1). May produce an allergic reaction.

CLASSIFICATION according to Directive 1999/45/EC and statutory instrument No.716 2009 Chemicals (Hazard Information and Packaging) regulation)

Not classified.

Primary Hazards

None.

2.2 Label Elements

Symbio Liquid Magnesium

EUH208 Contains reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3- one [EC no. 220-239-6] (3:1). May produce an allergic reaction.

2.3 Other Hazards

Mixture not classed as PBT or vPvB











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3. Composition/information on ingredients

3.2 Mixtures

Chemical Name	CAS-No./ EINECS-No.	Annex Index or REACH number	Symbol(s)	R-phrases)	Concentrations [%]
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	55965-84-9/ 611-341-5	Index number: 613-167-00-5	<p>According to 1272/2008:</p> <p>GHS05 </p> <p>GHS06 </p> <p>GHS07 </p> <p>GHS08 </p> <p>According to 67/548/EEC:</p> <p> T - TOXIC</p> <p> C - CORROSIVE</p> <p> Xi - IRRITANT</p> <p> N – DANGEROUS FOR THE ENVIRONMENT</p>	<p>According to 1272/2008:</p> <p>Acute Tox. 3 * - H331 Acute Tox. 3 * - H311 Acute Tox. 3 * - H301 Skin Corr. 1B – H314 Skin Sens. 1 – H317 Aquatic Acute 1 – H400 Aquatic Chronic 1 – H410</p> <p>According to 67/548/EEC: R23/24/25 R34 R43 R50/53</p>	≤ 0.001

The full hazard information for individual components if not displayed in section 2 or 3 is displayed in Section 16.



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4. First Aid Measures

4.1 Description of first aid measures

4.1.1 Inhalation

If symptoms arise remove from source of exposure to fresh air; seek medical attention if symptoms persist or develop

4.1.2 Skin & Eye exposure

Skin: Drench immediately with water. Remove any contaminated clothing and launder before re-use. Obtain medical attention if symptoms arise or persist.

Eyes: Immediately rinse with clean water for 15 minutes. Obtain medical attention if symptoms arise or persist.

4.1.3 Ingestion

Do not induce vomiting. Wash out mouth with water and give water to drink. Obtain medical attention if symptoms arise or persist.

4.2 Most important symptoms and effects, both acute and delayed

Information not available.

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

Information not available.

5. Fire-Fighting measures

5.1 Extinguishing media

Use foam, carbon dioxide, dry powder, sand. The mixture is not classified as flammable as such extinguishing media should also be chosen as appropriate for surrounding materials.

5.2 Special Hazards arising from the substance or mixture

Possible irritant fumes arising from combustion

5.3 Advice for fire-fighters

Cool down containers/equipment exposed to heat with a water spray. Contain spread of extinguishing fluids (these fluids may be hazardous for the environment). Wear complete protective clothing and self-contained breathing apparatus

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

The following precautions are considered to be good practice when using any chemicals irrespective of their classification unless otherwise specified.

Ensure adequate ventilation

Use personal protective equipment,

- Gloves

- Eye protection

- Suitable respirator if dust is generated during handling



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6.2 Environmental Precautions

Do not allow to enter storm drains or water courses. If this product enters a water course or a sewer (including via contaminated soil & vegetation) in large quantities contact local water authority and inform the Environment Agency

6.3 Methods and material for containment and cleaning up

Use soil, sand or other absorbent material. Contact specialist waste disposal contractor.

6.4 Reference to other sections

See also section 8

7. Handling and storage

7.1 Precaution for safe handling

Avoid contact with skin and eyes. Wash Hands thoroughly after handling
Do not eat, drink or smoke when using this product

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool dry atmosphere, in original labelled containers. Refer to manufacturer for maximum safe stacking height. Keep away from heat sources, metals, combustible materials and strong oxidising agents.

7.3 Specific end use(s)

No Information available

8. Exposure controls/personal protection

8.1 Control Parameters

None set.

8.2 Exposure controls

The following precautions are considered to be good practice when using any chemicals irrespective of their classification unless otherwise specified.

Primary Hazard considered as handling of concentrate.

Gloves: to BS EN374 of gauntlet type in Natural Rubber or PVC (not Nitrile) recommended for acid resistance.

Clothing: Coveralls/apron to BS EN465/466/467

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance;	Brown solution
Odour;	No Information available
Odour threshold;	No Information available
pH;	3.5 – 4.5
Melting point/freezing;	No Information available
Initial boiling point and boiling range;	No Information available
Flash point;	Mixture is not classified as flammable.
Evaporation rate;	No Information available
Flammability (solid, gas);	Mixture is not classed as flammable
Upper /lower flammability or explosive limits;	Mixture is not classed as explosive



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Vapour Pressure;	No Information available
Vapour density;	No Information available
Specific Gravity;	1.2 – 1.25
Solubility (ies);	No Information available
Partition coefficient: n-octanol/water;	No Information available
Auto ignition temperature;	No Information available
Decomposition temperature;	No Information available

9.2 Other Information

No other relevant information available

10. Stability and reactivity

10.1 Reactivity

Unknown

10.2 Chemical Stability

Stable under normal conditions

10.3 Possibility of hazardous reactions

Possibility of corrosive reaction with metals

10.4 Conditions to avoid

Extremes of temperature

10.5 Incompatible materials

Metals

10.6 Hazardous decomposition products

Possible Irritant fumes

11. Toxicological Information

11.1 Information on toxicological effects

The mixture has not been assessed for toxicological effects, the mixture classification is given in section 2 based on individual component contents. Individual component hazards are given in section 3

Toxicological information on hazardous ingredients:

reaction mass of:

5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3- one [EC no. 220-239-6] (3:1)

Oral LD50: 67 mg/Kg (rat)

Dermal LD50: >140 mg/Kg (rat)

Inhalation LC50/4hr 0.17 mg/l (rat) Aerosol THR 48/971458

Primary irritant effect:

On the skin: Caustic effect on skin and mucous membranes

On the eye: Strong caustic effect

Sensitization: Sensitization possible by skin contact



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12. Ecological Information

12.1 Toxicity

Mixture not classified as toxic to aquatic life.

Ecotoxicity of ingredients where available:

reaction mass of:

5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3- one [EC no. 220-239-6] (3:1)

EC50/48 h 0.12 mg/l (Daphnia)

EC50/72 h 0.048 mg/l (Pseudokirchneriella subcaitata)

EC50/90 h 0.22 mg/l (rainbow trout)

12.2 Persistence and degradability

Information not available

12.3 Bioaccumulative potential

Information not available

12.4 Mobility in soil

Information not available

12.5 Results of PBT and vPvB

Not classified

12.6 Other adverse effects

Information not available

13. Disposal considerations

13.1 Waste Treatment Methods

Use only licensed waste disposal companies for unwanted chemical. Do not re-use empty containers for any purpose.

14. Transport Information

14.1 UN number:

Product is unclassified for transport

14.2 UN proper shipping name:

Product is unclassified for transport

14.3 Transport hazard

Product is unclassified for transport

14.4 Packing group:

Product is unclassified for transport

14.5 Environmental hazards:

Product is unclassified for transport



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14.6 Special precautions for user:

No information available

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code

Applicable for Maritime bulk transport only. Check with carrier.

15. Regulatory information

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

This substance is classified and labelled in accordance with regulation 1999/45/EC, 1272/2008, the statutory instrument No.716 2009 Chemicals (Hazard Information and Packaging) regulations and the EC Fertiliser Regulations 2003, 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, including amendments. Regulation (EC)

15.2 Chemical Safety Assessment

CSA not undertaken for this substance

16. Other Information

Hazard Information assigned to individual ingredients, but not carried to final classification:

- H301 Toxic if swallowed
- H302 Harmful if swallowed
- H311 Toxic in contact with skin
- H314 Causes severe skin burns and eye damage
- H317 May cause an allergic skin reaction
- H331 Toxic if inhaled.
- H400 Very toxic to aquatic life
- H410 Very toxic to aquatic life with long lasting effects

- R22: Harmful if swallowed
- R23/24/25: Toxic by inhalation, in contact with skin and if swallowed
- R34: Causes burns.
- R43: May cause sensitisation by skin contact.

SDS information:

This Safety data sheet is compiled using data submitted for raw materials and practical experience. This product is intended for professional users only.

This Safety Data Sheet is prepared in compliance with Directive 1999/45/EC, regulation 1272/2008 and Annex I of the REACH regulation 453/2010.

Disclaimer

The information in this SDS was obtained from sources which we believe to be reliable. Symbio provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate handling of the product by properly trained and qualified personnel. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.



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