



SAFETY DATA SHEET
SYMBIO LIQUID 20.0.10

SDS COMPLETED 24TH JUNE 2015

VERSION 01
REVISION NUMBER: N/A

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

1.1 Product Identifier:

Symbio Liquid 20-0-10

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

Use as a professional use 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

Tel: +44 (0) 1428 685762

2. Hazards Identification

2.1 Classification of the substance or mixture

CLASSIFICATION according to Regulation (EC) No 1272/2008 (EU-GHS/CLP)

This mixture is not classified as dangerous to humans or the environment

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

This mixture is not classified as dangerous to humans or the environment

Primary Hazard

None.

2.2 Label Elements

There are no statutory labelling requirements under Directive 1999/45/EC, regulation 1272/2008 and regulation 453/2012.

2.3 Other Hazards

Mixture not classed as PBT or vPvB

3. Composition/information on ingredients





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3.2 Mixtures

Hazardous components

Chemical Name	CAS-No./ EINECS-No.	Annex Index or REACH number	Symbol(s)	R-phrase(s)	Concentrations [%]
Potassium nitrate	7757-79-1/ 231-818-8	REACH no.: 01-2119488224- 25	According to 1272/2008: GHS07  According to 67/548/EEC:  OXIDISING	According to 1272/2008: Oxid. Solid 3; H272 According to 67/548/EEC: R8	< 10.0

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. Obtain medical attention if symptoms develop or persist.

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 persist or develop.

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

4.1.3 Ingestion

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

4.2 Most important symptoms and effects, both acute and delayed

None recorded

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

Not known

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.



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5.2 Special Hazards arising from the substance or mixture

Possible irritant fumes arising from combustion

5.3 A 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

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, combustible materials.

7.3 Specific end use(s)

No Information available



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8. Exposure controls/personal protection

8.1 Control Parameters

Potassium nitrate:

DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	20,8 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	36,7 mg/m ³
DNEL/DMEL (General population)	
Acute - systemic effects, oral	12,5 mg/kg bodyweight
Long-term - systemic effects, inhalation	10,9 mg/m ³
Long-term - systemic effects, dermal	12,5 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	0,45 mg/l
PNEC aqua (marine water)	0,045 mg/l
PNEC aqua (intermittent, freshwater)	4,5 mg/l
PNEC (STP)	
PNEC sewage treatment plant	18 mg/l

8.2 Exposure controls

Considered for handling bulk concentrate

Goggles – Eye Protection: goggles/face shield to BS EN166.

Gloves – BS EN374 – chemical protection: physical barrier protection only

Suitable engineering controls should be in place for measuring and decanting of product. Avoid formulation of dust

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance;	brown liquid
Odour;	No Information available
pH;	9.0 – 10.0
Melting point/freezing;	No Information available
Initial boiling point and boiling range;	No Information available
Flash point;	Mixture not classed as Flammable
Flammability (solid, gas);	mixture not classed as flammable
Explosive Properties;	Mixture not classed as explosive
Oxidising Properties;	Mixture not classed as oxidising
Vapour Pressure;	No Information available
Vapour density;	No Information available
Specific gravity;	1.20 ± 0.02
Solubility (ies);	No Information available
Viscosity;	No Information available
Partition coefficient: n-octanol/water;	No Information available

9.2 Other Information

No other relevant information available

10. Stability and reactivity



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10.1 Reactivity

Unknown

10.2 Chemical Stability

Stable under normal conditions of use

10.3 Possibility of hazardous reactions

Information not available

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

This mixture has not been assessed for toxicological effects as the mixture is not classified as dangerous based on its individual components.

Toxicological information on hazardous ingredients:

Potassium nitrate

LD50 oral rat	> 2000 mg/kg (OECD 425)
LD50 dermal rat	> 5000 mg/kg (OECD 402)
LC50 inhalation rat (mg/l)	> 527 mg/m ³ (OECD 403)
Skin corrosion/irritation :	Not irritating. rabbit. OECD 404
pH:	5 - 8
Serious eye damage/irritation :	Not irritating. rabbit. OECD 405 pH: 5 - 8
Respiratory or skin sensitisation :	Did not cause sensitisation. mouse, OECD 429
Germ cell mutagenicity :	Negative /OECD 471. Negative/OECD 476
Carcinogenicity :	Not a carcinogen suspected agent.
Reproductive toxicity :	NOAEL: > = 1500 mg/kg bw/day(rat, oral, 28 days, OECD 422)
Specific target organ toxicity (single exposure) :	Not classified
Specific target organ toxicity (repeated exposure):	NOAEL: > = 1500 mg/kg bw/day(rat, OECD 422)
Aspiration hazard :	Not classified

12. Ecological Information

12.1 Toxicity

Mixture not classified as harmful to aquatic life.

12.2 Persistence and degradability

Information not available

12.3 Bioaccumulative potential

Information not available



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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, dispose of packaging in accordance with local regulations.

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

14.6 Special precautions for user:

Product is unclassified for transport

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.



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15.2 Chemical Safety Assessment

CSA not undertaken for this substance

16. Other Information

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

R8: Contact with combustible material may cause fire

H272: May intensify fire; oxidiser.

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, 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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