



**SAFETY DATA SHEET**  
**SYMBIO LIQUID SULPHUR**

SDS COMPLETED 24<sup>TH</sup> JUNE 2015

VERSION 01  
REVISION NUMBER: N/A

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

**1.1 Product Identifier:**

Liquid Sulphur

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

Supplied for 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](mailto: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 Directive EC 1272/2008 Classification, Labelling and Packaging

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**

No hazard

**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**

**Product Code:**







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**3.2 Mixtures**

**Hazardous components**

Chemical Name	CAS-No./ EINECS-No.	Annex Index or REACH number	Symbol(s)	Phrase(s)	Concentration [%]
Ammonia aqueous solution	1336-21-6/ 215-647-6	007-001-01-2	According to 1272/2008: GHS05  GHS09  According to 67/548/EEC:  C - CORROSIVE  N-DANGEROUS FOR THE ENVIRONMENT	According to 1272/2008: H314: Causes severe skin burns and eye damage. H400: Very toxic to aquatic life.  According to 67/548/EEC: R34, R50	≤0.9

The full text for all R-Phrases if not displayed in section 2 or 3 are displayed in Section 16

**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**

Drench immediately with water. Remove any contaminated clothing and launder before re-use. Seek medical attention if symptoms persist or develop.

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

**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



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**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 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**

Use personal protective equipment  
-appropriate coveralls and gloves  
-eye/face protection  
-appropriate respirators  
Avoid contact with skin and eyes

**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**

Contain spillages. Use absorbent inert material such as sand and contain in suitably labelled – acid resistant containers. Neutralize non recoverable remainder.

**6.4 Reference to other sections**

No reference necessary

**7. Handling and storage**

**7.1 Precaution for safe handling**

Open container with care to avoid splashes. Avoid contact with skin and eyes. Wash Hands thoroughly after handling  
Do not eat, drink or smoke when using this product. Remove contaminated clothing and protective equipment before entering eating areas.

**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 specific information available



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### 8. Exposure controls/personal protection

#### 8.1 Control Parameters

Information not specified

#### 8.2 Exposure controls

Goggles – Eye Protection : goggles/face shield to BS EN166.  
Gloves – BS EN374 – chemical protection.  
Respirators – BS approved protection device with P3 filter.

### 9. Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

Appearance;	A clear colourless liquid
Odour;	ammoniacal odour
Odour threshold;	Information not available
pH;	approximately 8.5
Melting point/freezing;	May crystallise below 5°C
Initial boiling point and boiling range;	The water constituent will boil at approx. 105°C.
Flash point;	Information not available
Evaporation rate;	Information not available
Flammability (solid, gas);	Not applicable
Upper /lower flammability or explosive limits;	Not applicable
Vapour Pressure;	Negligible
Vapour density;	Information not available
Specific gravity;	1.33 at 20°C
Solubility (ies);	Completely miscible with water
Partition coefficient: n-octanol/water;	Information not available
Auto ignition temperature;	Not applicable
Decomposition temperature;	Information not available

#### 9.2 Other Information

No other relevant information available

### 10. Stability and reactivity

#### 10.1 Reactivity

Incompatible with acids, alkalis and oxidising agents.  
Corrodes copper and its alloys.

#### 10.2 Chemical Stability

Stable under normal conditions of use.  
Avoid prolonged high temperatures (above 40°C).

#### 10.3 Possibility of hazardous reactions

No specific hazardous reactions known

#### 10.4 Conditions to avoid

Stable under normal conditions of use.  
Avoid prolonged high temperatures (above 40°C).



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### 10.5 Incompatible materials

Incompatible with acids, alkalis and oxidising agents.  
Corrodes copper and its alloys.

### 10.6 Hazardous decomposition products

Ammonia (NH<sub>3</sub>), nitrogen oxides (NO<sub>x</sub>), and sulphur oxides, including sulphur dioxide (SO<sub>x</sub>), hydrogen sulphide (H<sub>2</sub>S).

## 11. Toxicological Information

### 11.1 Information on toxicological effects

LD50 oral rat 2890 mg/kg.

No reports of long term effects have been received.

#### **Toxicological information on hazardous ingredients:**

##### **Ammonia solution:**

LD50 oral rat 350 mg/kg

LDLO human 43 mg/kg Ref. 2

This product will cause damage to the throat and gastrointestinal tract. It should be treated as poisonous.

Effect: The vapour is irritating to eyes and the respiratory system.

Prolonged skin contact will cause burns.

If ingested, damage to the gastrointestinal tract is likely.

Long Term Effects: Ammonia solution has been widely used for many decades with no reports of long term effects.

## 12. Ecological Information

### 12.1 Toxicity

**Mixture NOT classified as dangerous to the environment in accordance with CHIP regulations 2009**

### 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



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**13.1 Waste Treatment Methods**

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

**14. Transport Information**

**14.1 UN number:**

mixture not classified for transport

**14.2 UN proper shipping name:**

mixture not classified for transport

**14.3 Transport hazard:**

mixture not classified for transport

**14.4 Packing group:**

mixture not classified for transport

**14.5 Environmental hazards:**

mixture not classified for transport

**14.6 Special precautions for user:**

mixture not classified for transport

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

mixture not classified for transport.

**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.

**15.2 Chemical Safety Assessment**

CSA not undertaken for this substance

**16. Other Information**

**Other Risk Phrases assigned to individual ingredients, but not carried to final classification:**



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- R34** Causes burns.  
**R50** Very toxic to aquatic organisms.
- H314** Causes severe skin burns and eye damage.  
**H400** Very toxic to aquatic life.

**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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