

**Cypher**

**Section 1: Identification of the substance/preparation and of the company/undertaking**

**1.1 Product identifier**

Product Name: **Cypher**  
Supplier: Engage Agro Europe Ltd  
Chorley Business & Technology Centre  
Euxton Lane,  
Euxton, Chorley  
Lancashire PR7 6TE  
England  
Telephone: +44 (0) 1257 226590

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

Product use: Agricultural/Horticultural  
Uses advised against: All uses not specified in this section or in section 7.3.

**1.3 Emergency telephone**

Emergency Telephone	Type of Assistance	Opening Hours
0845 4647	England and Wales: NHS Direct – Health advice and assistance	24 Hours
08454 242424	Scotland: NHS24	24 Hours

**Section 2: Hazards identification**

**2.1 Classification of the Substance and Mixture**

CLP Regulation (EC) n°1272/2008: This product is not classified as hazardous under current legislation

**Section 3: Composition/information on ingredients**

**3.1 Mixtures**

In accordance with Annex II of Regulation (EC) n°1907/2006

Identification	Chemical name/Classification	Concentration
CAS: 7446-20-0	<b>Zinc Sulphate Monohydrate</b>	<1
EC: 231-793-3	Regulation 1272/2008	
Index: Not available	Regulation 67/548/EEC / 1999/45/EC	
REACH: Not available	Acute Tox. 4; Eye Dam. 1; Aquatic Acute 1; Aquatic Chronic 1; H302, H318, H400, H410	

**Section 4: First aid measures**

**4.1 Description of first aid measures**

**By inhalation:** If Inhaled, move person to fresh air, If not breathing give artificial respiration. Seek medical advise.  
**By skin contact:** Wash area with soap and plenty of water. Seek medical advise  
**By eye contact:** Rinse eyes with water for at least 15 minutes. Seek medical advise  
**By Ingestion:** Wash out mouth with water. Consult a doctor.  
**Further medical treatment:** Shouldn't be needed but treat symptomatically

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

Immediate/special treatment: Eye bathing equipment should be available on the premises.

**Cypher**

**Section 5: Fire-fighting measures**

**5.1 Extinguishing media**

**Extinguishing media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

**5.2 Special hazards arising from the substance or mixture**

**Exposure hazards:** None Known

**5.3 Advice for firefighters**

**Advice for fire-fighters:** Wear self-contained breathing apparatus if necessary

**Section 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures**

**Personal precautions:** Use Personal Protective Equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation

**6.2 Environmental precautions**

**Environmental precautions:** Prevent further spillages if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided

**6.3 Methods and material for containment and cleaning up**

**Clean-up procedures:** In event of spillage, evacuate area and attempt to contain and absorb with sand, earth or other inert material. Sweep up and place in waste sealed containers. Contact Local Authority for controlled waste disposal

**6.4 Reference to other sections**

**Reference to other sections:** Refer to Section 8 of SDS.

**Section 7: Handling and storage**

**7.1 Precautions for safe handling**

**Precautions for safe handling:** Avoid contact with skin or eyes. Always use PPE when handling/transporting chemicals

**7.2 Conditions for safe storage, including any incompatibilities**

**General conditions for storage:** Keep containers tightly closed when not in use

**Storage temperature:** Store in cool, dry, well ventilated place

**Storage life:** Stable in normal conditions

**Specific use:** Agricultural/Horticultural

**7.3 Specific end use(s)**

**Specific end use(s):** No data is available for this product.

**Cypher**

**Section 8: Exposure controls/personal protection**

**8.1 Control Parameters**

**Workplace exposure limits:** No data available

**8.2 Exposure controls**



**A - General security and hygiene measures in the work place**

Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space.

**B - Specific Respiratory Protection**

When necessary use of a full-face particle respirator is recommended

**C - Specific protection for the hands**

Chemical-resistant gloves (i.e nitrile) should be worn at all times when handling this material

**D - Ocular and facial protection**

Use safety goggles

**Occupational exposure limits:**

Substance	CAS No.	LTEL (8hr TWA ppm)	LTEL (8hr TWA mg/m <sup>3</sup> )	STEL (ppm)	STEL (mg/m <sup>3</sup> )	Notes
Ethylene Glycol	107-21-1	20	52	40	104	According Limit Value (IOELV) list in 2nd Indicative Occupational Exposure adopted by Health and Safety Executive

**Section 9: Physical and chemical properties**

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

State:	Liquid
Colour	Black
Odour	Characteristic
Evaporation rate:	No data available
Oxidising:	No data available
Solubility in water:	Miscible
Viscosity:	No data available
Boiling point/range:	No data available
Melting point/range:	No data available
Flammability limits % lower:	Non-flammable
Flammability limits % upper:	No data available
Explosive properties:	Not predicted to be explosive
Flash point:	No data available
Partition coefficient:	No data available
Autoflammability:	Non-flammable
Vapour pressure:	No data available
Relative density:	1.08-1.12
pH:	6.0 - 7.0
VOC:	No data available

**Cypher**

**Section 10: Stability and reactivity**

**10.1 Reactivity**

**Reactivity:** No data available

**10.2 Chemical stability**

**Chemical stability:** No data available

**10.3 Possibility of hazardous reactions**

**Hazardous reactions:** None known

**10.4 Conditions to avoid**

**Conditions to avoid:** No data available

**10.5 Incompatible materials**

**Incompatible materials:** Bases

**10.6 Hazardous decomposition products**

**Haz. Decomposition Products:** No data available

**Section 11: Toxicological information**

**11.1 Information on toxicological effects**

**Skin Contacts:** No data available

**Eye contact:** No data available

**Ingestion:** No data available

**Inhalation:** No data available

**Long term exposure:** No data available

**11.2 Specific toxicology information on the substances**

No data available

**Section 12: Ecological information**

**12.1 Toxicity**

No data available

**12.2 Persistence and degradability**

**Ecotoxicity values:** No data available

**Persistence and degradability:** No data available

**12.3 Bioaccumulative potential**

**Bioaccumulative potential:** No data available

**Cypher**

**12.4 Mobility in soil**

No data available

**12.5 Results of PBT and vPvB assessment**

**PBT Identification:** No data available

**12.6 Other adverse effects**

No data available

**Section 13: Disposal considerations**

**13.1 Waste treatment methods**

**Regulatory information:** Should be disposed of by a licensed disposal company. Do not re-use packaging for any other purpose  
**Recommended:** Use of a licensed disposal company is recommended

**Section 14: Transport information**

**14.1 UN Number**

This product is not classified as dangerous for carriage.

**14.2 UN proper shipping name**

The product is not classified as dangerous for carriage.

**14.3 Transport hazard class(es)**

This product is not classified as dangerous for carriage.

**14.4 Packaging group**

The products is not classified as dangerous for carriage.

**14.5 Environmental hazards**

The product is not classified as dangerous for carriage.

**14.6 Special precautions for user**

The product is not classified as dangerous for carriage.

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

The product is not classified as dangerous for carriage.

Cypher

**Section 15: Regulatory information**

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

**Specific 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 with amendments.

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)

REGULATION (EC) No 1727/2008 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) of 16 December 2008 on classification, labelling and packaging of substances and mixture, amending and repealing Directives 6/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; with amendments

Regulation (EU) No 946/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals

Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on Persistent organic Pollutants and amending Directive 79/117/EC

European Agreement Concerning the Carriage of Dangerous Goods by Road (ADR), 2015

**Section 16 Other information**

**Legislation related to safety data sheets:**

This safety data sheet has been designed in accordance with Annex II-Guide to the compilation of safety data sheets of Regulation (EC) N° 1907/2006 (Regulation (EU) N° 453/2010, Regulation (EC) N° 2015/830)

**Modifications related to the previous security card which concerns the ways of managing risks:**

Non-applicable

**Legal disclaimer:**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

[www.engageagroeuropa.com](http://www.engageagroeuropa.com)

© Engage Agro Europe

**Engage Agro Europe Ltd**

Chorley Business & Technology Centre | Euxton Lane | Euxton | Chorley | Lancashire PR7 6TE  
T: +44 (0) 1257226590 E: [info@engage-agro.com](mailto:info@engage-agro.com)