

**MAS-Power Zn**

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

**1.1 Product identifier**

Product Name: **MAS-Power Zn**  
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: Fertiliser. For professional use only.  
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**

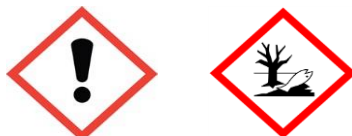
**2.1 Classification of the Substance and Mixture**

CLP Regulation (EC) n°1272/2008: Classification of this product has been carried out in accordance with CLP Regulation (EC) N° 1272/2008.  
Acute Tox. 4: H302  
Eye Irrit. 2: H318  
Aquatic Chronic 1: H410  
Met. Corr. 1: H290  
Skin Corr. 1B: H314  
STOT RE 2: H373

**2.2 Label elements**

Hazard Statements: Acute Tox. 4: H302 - Harmful if swallowed  
Eye Irrit.2: H318 - Causes serious eye damage  
Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects  
Met. Corr 1: H290 - May be corrosive to metals  
Skin Corr. 1B: H314 - Causes severe skin burns and eye damage  
STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure

**Hazard Pictograms:**



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**2.3 Other Hazards**

**Signal Words:** Warning  
**Precautionary Statement:** P280 - Wear protective gloves, protective clothing, eye protection, face protection  
**Prevention**  
**Precautionary Statement:**  
**Response**  
**Precautionary Statement:** P403+P233: Store in a well ventilated place. Keep container tightly closed  
**Storage**  
**Precautionary Statement:**  
**Disposal**

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

**3.1 Substances**

Hazardous ingredients	%W/W	CAS No.	EC. No.	EC Classification
Phosphoric Acid	<1	7664-38-2	231-633-2	Met. Corr. 1, Skin Corr. 1B, H290, H314
Zinc Sulphate Monohydrate	20-25	7446-19-7	231-793-3	Aquatic Acute 1, Aquatic Chronic 1, Acute Tox. 4, Eye Dam. 1, H302, H318, H410

**Section 4: First aid measures**

**4.1 Description of first aid measures**

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention.

**By inhalation:** If inhaled, move person to fresh air. If not breathing give artificial respiration. Seek medical advice.  
**By skin contact:** Wash area with soap and plenty of water. Seek medical advice.  
**By eye contact:** Rinse eyes with water for at least 15 minutes. Seek medical advice.  
**By Ingestion:** Rinse mouth with water. Seek medical advice.

**4.2 Most important symptoms and effects, both acute and delayed:**

Most important known symptoms and effects are described in Section 2.

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

TREAT SYMPTOMATICALLY. If you feel unwell seek medical advice. Show the label where possible. Show this safety data sheet to the doctor in attendance

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**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:** Use 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 vapours, 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 environment must be avoided.

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

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

**6.4 Reference to other sections**

**Reference to other sections:**

**Section 7: Handling and storage**

**7.1 Precautions for safe handling**

**Precautions for safe handling:** Avoid contact with skin and 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.  
Store in a cool, dry, well ventilated place.

**7.3 Specific end use(s)**

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

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

**8.1 Control Parameters**

Substances whose occupational exposure limits have to be monitored in the work environment.

Substance	CAS No.	LTEL (8hr TWA mg/m <sup>3</sup> )	STEL (mg/m <sup>3</sup> )	Note:
Phosphoric Acid	7664-38-2	1	2	UK. EH40 WEL - Workplace exposure limits

**DNEL (General population):** Non-applicable  
**PNEC:** Non-applicable

**8.2 Exposure controls**



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

Adopt best Manual Handling considerations when handling, carrying and dispensing. Avoid contact with skin and eyes. Handle in accordance with good industrial hygiene and safety practice. Use appropriate personal protective equipment. Wear suitable protective clothing and eye/face protection.

**B - Specific Respiratory Protection**

When necessary use of a full face 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.

**E - Bodily protection**

Wear suitable protective clothing.

**Environmental exposure controls:**

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. Prevent further leakage or spillage if safe to do so

**Volatile organic compounds**

Non-applicable

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**Section 9: Physical and chemical properties**

9.1 Information on basic physical and chemical properties

Form:	Liquid
Colour:	Pale grey
Odour:	No data available
pH:	1.5-2.5
Boiling point:	No data available
Flash point:	No data available
Flammable limits:	Non-flammable
Explosive properties:	Not predicted to be explosive
Oxidising properties:	No data available
Vapour pressure:	No data available
Density:	S.G. = 1.319-1.339
Solubility (water):	Miscible
Partition coefficient:	No data available
Viscosity:	No data available
Vapour density:	No data available
Relative evaporation rate:	No data available

9.2 Other Information

Not applicable

**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:** No data available

10.6 Hazardous decomposition products

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

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**Section 11: Toxicological information**

**11.1 Information on toxicological effects**

**Acute health effects:**

<b>Inhalation:</b>	No data available
<b>Ingestion:</b>	No data available
<b>Skin:</b>	No data available
<b>Eyes:</b>	Irritation on contact
<b>Long term exposure:</b>	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**

No data available

**12.3 Bioaccumulative potential**

No data available

**12.4 Mobility in soil**

No data available

**12.5 Results of PBT and vPvB assessment**

The substance does not meet the criteria for PBT or vPvB

**12.6 Other adverse effects**

No data available

**Section 13: Disposal considerations**

**13.1 Waste treatment methods**

<b>Waste treatment methods:</b>	Should be disposed of by a licenced disposal company.
<b>Disposal of packaging:</b>	Do not reuse empty containers. Dispose of empty container in compliance with local and national regulations.

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**Section 14: Transport information**

Transport of dangerous goods by land With regard to ADR 2015 and RID 2015:		Transport of dangerous goods by sea With regard to IMDG 37-14	
<b>14.1 - UN number:</b>	UN3082	<b>14.1 - UN number:</b>	UN3082
<b>14.2 - UN proper shipping name:</b>	Environmentally hazardous substance, Liquid N.O.S (Zinc Sulphate)	<b>14.2 - UN proper shipping name:</b>	Environmentally hazardous substance, Liquid N.O.S (Zinc Sulphate)
<b>14.3 - Transport hazard class(es):</b>	ADR/RID:9	<b>14.3 - Transport hazard class(es)</b>	IMDG: 9
Labels:		Labels:	Non-applicable
<b>14.4 - Packing group</b>	III	<b>14.4 - Packing group</b>	III
<b>14.5 - Dangerous for the env.:</b>	Yes	<b>14.5 - Dangerous for the env.:</b>	Yes
<b>14.6 - Special precautions for user</b>		<b>14.6 - Special precautions for user:</b>	
Special regulations:		Special regulations:	Non-applicable
Tunnel restriction code:	-	EmS codes:	-
Physico-Chemical properties:	See section 9	Physico-chemicalproperties:	See section 9
Limited Quantities:	Non-applicable	Limited quantities:	Non-applicable
<b>14.7 - Transport in bulk according to Annex II of Marpol and IBC Code:</b>	Non-applicable	<b>14.7 - Transport in bulk according to Annex II of Marpol and IBC code:</b>	Non-applicable
Transport of dangerous goods by air With regard to IATA/ICAO 2015:			
<b>14.1 - UN number:</b>	UN1993		
<b>14.2 - UN proper shipping name:</b>	Environmentally hazardous substance, Liquid N.O.S (Zinc Sulphate)		
<b>14.3 - Transport hazard class(es):</b>	Non-applicable		
Labels:	Non-applicable		
<b>14.4 - Packing group</b>	III		
<b>14.5 - Dangerous for the environment:</b>	No		
<b>14.6 - Special precautions for user</b>			
Physico-Chemical properties:	See section 9		
<b>14.7 - Transport in bulk according to Annex II of Marpol and IBC Code:</b>	Non-applicable		
Packing instruction (Cargo):	-		
Maximum quantity:	-		
Packing instruction (Passenger):	-		
Maximum quantity:	-		

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**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

**15.2 Chemical Safety Assessment**

**Chemical safety assessment:** No data available



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**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

**Texts of the legislative phrases mentioned in section 2:**

H290 -May be corrosive to metals

H302 - Harmful if swallowed

H314 - Causes severe skin burns and eye damage

H318 - Causes serious eye damage

H373 - May cause damage to organs through prolonged or repeated exposure

H410 - Very toxic to aquatic life with long lasting effects

**Texts of the legislative phrases mentioned in section 3:**

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3.

**CLP Regulation (EC) n° 1272/2008:**

Acute Tox. 4: H302 - Harmful if swallowed

Eye Irrit.2: H318 - Causes serious eye damage

Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects

Met. Corr 1: H290 - May be corrosive to metals

Skin Corr. 1B: H314 - Causes severe skin burns and eye damage

STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure

**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.

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