

**Sion**

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

**1.1 Product identifier**

Product Name: **Sion**  
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.  
Flam. Liq. 3: H226  
Skin Irrit. 2: H315  
Eye Dam. 1: H318  
Acute Tox. 4: H332  
STOT SE 3: H335  
Aquatic Chronic 3: H412

**2.2 Label elements**

Hazard Statements: Flam. Liq. 3: H226 - Flammable liquid and vapour  
Eye Irrit. 2: H319 - Causes serious eye irritation  
Eye Dam. 1: H318 - Causes serious eye damage  
Acute Tox. 4: H332 - Harmful if inhaled  
STOT SE 3: H335 - May cause respiratory irritation  
Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects

Hazard Pictograms:



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<b>Signal Words:</b>	Danger
<b>Precautionary Statement:</b>	P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
<b>Prevention</b>	P233 - Keep container tightly closed P242 - Use only non-sparking tools P243 - Take precautionary measures against static discharge P261 - Avoid breathing dust/fume/gas/mist/vapours/spray P264 - Wash hands and other contacted skin thoroughly after handling P271 - Use only outdoors in a well ventilated area P280 - Wear Protective gloves/protective clothing/eye protection/face protection
<b>Precautionary Statement:</b>	P302+P352 - IF ON SKIN: Wash with plenty of water.
<b>Response</b>	P303+P361+P338 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 - Immediately call a POISON CENTRE/doctor if you feel unwell. P321 - Specific treatment (see % on this label). P332+P313 - If skin irritation occurs: Get medical advice/attention. P370+P378 - In case of fire: Use carbon dioxide or foam to extinguish.
<b>Precautionary Statement:</b>	P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
<b>Storage</b>	P403+P235 - Store in a well-ventilated place. Keep cool. P405 - Store locked up.
<b>Precautionary Statement:</b>	P501 - Dispose of contents/container to an approved waste contractor.
<b>Disposal</b>	

**2.3 Other Hazards**

**Other Hazards** PBT not identified as a PBT substance

**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: 78-10-4 EC: 201-083-8 Index: 014-005-00-0 REACH: 01-2119496195-28	<b>Tetraethyl silicate (Tetraethylacetate)</b> Regulation 1272/2008 Flam. Liq. 3: H225, Eye Irrit. 2: H319, Acute Tox. 4: H332, STOT SE 3: H335	70-80%
CAS: 134180-76-0 EC: Non-applicable Index: Non-applicable REACH: Non-applicable	<b>Polyether modified polysiloxane</b> Regulation 1272/2008 Acute Tox. 4: H312+H332, Eye Irrit. 2: H319, Aquatic Chronic 2: H411	1-10%
CAS: 68131-40-8 EC: Non applicable Index: Non-applicable REACH: Non-applicable	<b>Alkyloxypolyethyleneoxyethanol</b> Regulation 1272/2008 Acute Tox. 4: H302, Skin Irrit. 2: H316, Eye Dam. 1: H318, Acute Tox. 4: H332	10-20%
CAS: 11099-06-2 EC: 234-324-0 Index: Non-applicable REACH: Non-applicable	<b>Ethylpolysilicate</b> Regulation 1272/2008 Flam. Liq. 3: H226, Eye Irrit. 2: H319, Acute Tox. 4: H332, STOT SE 3: H335	1-10%

Further Information: Product Shelf Life Recommended shelf life 3 years from date of delivery.

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### 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.

<b>By inhalation:</b>	Move the exposed person to fresh air.
<b>By skin contact:</b>	Remove contaminated clothing. Wash with water and soap as a precaution.
<b>By eye contact:</b>	Rinse immediately with plenty of water. Contact lenses should be removed.
<b>By Ingestion:</b>	DO NOT INDUCE VOMITING. Rinse mouth thoroughly.

#### 4.2 Most Important symptoms and effects, both acute and delayed:

<b>By Inhalation:</b>	High concentration of vapour in enclosed space may cause irritation, headaches and nausea. Harmful by inhalation.
<b>By Skin Contact:</b>	May cause skin dryness and irritation. Prolonged contact may cause defatting of the skin. Harmful in contact with skin.
<b>By Eye contact:</b>	Harmful. Causes serious eye damage.
<b>By Ingestion:</b>	May cause irritation to mucous membranes. Harmful if swallowed.

#### 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.

<b>By inhalation:</b>	Move the exposed person to fresh air. Seek medical attention if irritation or symptoms persist. Show this safety data sheet to the doctor in attendance.
<b>By Skin Contact:</b>	Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.
<b>By Eye Contact:</b>	Contact lenses should be removed. Rinse immediately with plenty of water. Seek medical attention if irritation or symptoms persist.
<b>By Ingestion:</b>	If swallowed, seek medical advice immediately and show container or label.

### Section 5: Fire-fighting measures

#### 5.1 Extinguishing media

<b>Extinguishing media:</b>	Flammable liquid. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
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#### 5.2 Special hazards arising from the substance or mixture

<b>Exposure hazards:</b>	Burning produces irritating, toxic and obnoxious fumes.
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#### 5.3 Advice for firefighters

<b>Advice for fire-fighters:</b>	Wear suitable respiratory equipment when necessary.
<b>Additional provisions:</b>	In the event of a fire and/or explosion do not breath fumes. Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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### Section 6: Accidental release measures

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

**Personal precautions:** Wear suitable protective equipment. Flammable liquid. Avoid Sparks, flames, heat and sources of ignition.

#### 6.2 Environmental precautions

**Environmental precautions:** Advise local authorities if large spills cannot be contained.

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

**Clean-up procedures:** Absorb with inert, absorbent material. Sweep up. Transfer to suitable, labelled containers for disposal. Avoid sparks, flames, heat and sources of ignition.

#### 6.4 Reference to other sections

**Reference to other sections:** See section 2, 7, 8 and 13 for further information.

### Section 7: Handling and storage

#### 7.1 Precautions for safe handling

**Precautions for safe handling:** Adopt best manual handling considerations when handling, carrying and dispensing.

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

**General conditions for storage:** Flammable liquid. Avoid sparks, flames, heat and sources of ignition. Avoid storing in direct sunlight. Store in a well ventilated place. Keep cool. Store in original container. Keep container tightly closed. Keep away from combustible material. Keep out of the reach of children.

#### 7.3 Specific end use(s)

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

### Section 8: Exposure controls/personal protection

#### 8.1 Control Parameters

Substances whose occupational exposure limits have to be monitored in the work environment.  
There are no environmental limits for the substances contained in the product.

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

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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**

No personal respiratory protective equipment normally required. In case of insufficient ventilation wear suitable respiratory equipment.

**C - Specific protection for the hands**

Wear Rubber gloves.

**D - Ocular and facial protection**

Avoid contact with eyes. If splashes are likely to occur wear safety glasses with side shields.

**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.

**Volatile organic compounds**

Non-applicable

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**Section 9: Physical and chemical properties**

9.1 Information on basic physical and chemical properties

Appearance:	Liquid
Colour:	Clear
Odour:	Slight
Odour threshold:	No data available
pH:	No data available
Melting point:	No data available
Initial boiling point:	No data available
Flash point:	35°C
Evaporation rate:	No data available
Flammability (solid, gas):	No data available
Vapour pressure:	No data available
Vapour density:	No data available
Relative density:	0.95-0.96 (H <sub>2</sub> O = 1 @ 20°C)
Partition coefficient:	No data available
Autoignition coefficient:	No data available
Viscosity:	No data available
Explosive properties:	No data available
Oxidising properties:	No data available
Solubility:	Miscible in water

9.2 Other Information

Conductivity:	No data available
Surface tension:	No data available
Gas group:	No data available
Benzene content:	No data available
Lead content:	No data available
VOC (Volatile organic compounds)	No data available

**Section 10: Stability and reactivity**

10.1 Reactivity

**Reactivity:** Flammable liquid. Stable under normal conditions.

10.2 Chemical stability

**Chemical stability:** Flammable liquid. Stable under normal conditions.

10.3 Possibility of hazardous reactions

**Hazardous reactions:** Oxidising agents. Combustible materials.

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### 10.4 Conditions to avoid

**Conditions to avoid:** Avoid sparks, flames, heat and sources of ignition. Avoid storing in direct sunlight.

### 10.5 Incompatible materials

**Incompatible materials:** Oxidising agents

### 10.6 Hazardous decomposition products

**Haz. Decomposition Products:** No hazardous decomposition products when stored and handled correctly. Burning produces irritating, toxic and obnoxious fumes.

## Section 11: Toxicological information

### 11.1 Information on toxicological effects

**Skin corrosion/irritation:** May cause irritation to skin.

**Serious eye damage/irritation:** Not anticipated under normal conditions of use. Causes serious eye damage.

**Respiratory or skin sensitisation:** Not anticipated under normal conditions of use. May cause irritation to respiratory system. Causes skin irritation

**Repeated or prolonged exposure:** Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed. Prolonged contact may cause defatting of the skin.

## Section 12: Ecological information

### 12.1 Toxicity

No data available

### 12.2 Persistence and degradability

Substance biodegrades at a moderate rate and inherently biodegradable according to the OECD guidelines.

### 12.3 Bioaccumulative potential

No data available

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

No data available

### 12.6 Other adverse effects

No data available

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**Section 13: Disposal considerations**

**13.1 Waste treatment methods**

**Waste treatment methods:** Dispose of waste and residues in accordance with local authority requirements.

**Disposal of packaging:** Do not reuse empty containers. Dispose of empty container in compliance with local and national regulations.

**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> UN1993	<b>14.1 - UN number:</b> UN1993
<b>14.2 - UN proper shipping name:</b> FLAMMABLE LIQUID N.O.S. (contains Tetraethyl silicate solution)	<b>14.2 - UN proper shipping name:</b> FLAMMABLE LIQUID N.O.S. (contains Tetraethyl silicate solution)
<b>14.3 - Transport hazard class(es):</b> ADR/RID:3 Labels: 3	<b>14.3 - Transport hazard class(es)</b> IMDG: 3 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> No	<b>14.5 - Dangerous for the env.:</b> No
<b>14.6 - Special precautions for user</b> Special regulations: Hazard ID 30 Tunnel restriction code: Category D/E Physico-Chemical properties: See section 9 Limited Quantities: Non-applicable	<b>14.6 - Special precautions for user:</b> Special regulations: Non-applicable EmS codes: F-E-S-E Physico-chemicalproperties: See section 9 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> FLAMMABLE LIQUID N.O.S. (contains Tetraethyl silicate solution)	
<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	
<b>Packing instruction (Cargo):</b> 366 <b>Maximum quantity:</b> 220 L <b>Packing instruction (Passenger)</b> 355 <b>Maximum quantity:</b> 60 L	



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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.

COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on 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.

**Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH):**

Non-applicable

**Specific provisions in terms of protecting people or the environment:**

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of the local circumstances in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product

**Other legislation:**

The product could be affected by sectorial legislation

Regulation (EC) No 2003/2003 of the European Parliament and of the Council of 13 October 2003 relating to fertilisers

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:**

H226 - Flammable liquid and vapour

H319 - Causes serious eye irritation

H332 - Harmful if inhaled

H335 - May cause respiratory irritation

H312+H332 - Harmful in contact with skin or if inhaled

H411 - Toxic to aquatic life with long lasting effects

H302+H332 - Harmful if swallowed or inhaled

H315 - Causes skin irritation

H318 - Causes serious eye damage

**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:**

Flam. Liq. 3: H226 Flammable liquid and vapour

Eye Irrit. 2: H319 Causes serious eye irritation

Acute Tox. 4: H332 Harmful if inhaled

STOT SE 3: H335 May cause respiratory irritation

Acute Tox.4: H312+H332 Harmful in contact with skin or if inhaled

Aquatic Chronic 2. H411 Toxic to aquatic life with long lasting effects

Acute tox. 4:H302+H332 Harmful if swallowed or inhaled

Skin Irrit. 2: H315 Causes skin irritation

Eye Dam. 1: H318 Causes serious eye damage

**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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**Engage Agro Europe Ltd**

Chorley Business & Technology Centre | Euxton Lane | Euxton | Chorley | Lancashire PR7 6TE

T: +44 (0) 1257226590

E: info@engage-agro.com

www.engageagroeuropa.com