



**SAFETY DATA SHEET**  
**ACCORDING TO 1907/2006/EC, 453/2010/EU,**  
**2015/830/EU (REACH)**

**UKELP**

Revised on / Version: 06.09.2018 / 0001  
Replaces revision of / Version: N/A

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

- 1.1 Product Identifier**  
Product Name : UKELP  
Product description : Fertiliser  
Product Type : Suspension
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**  
Relevant uses: Agriculture, Fertiliser  
Uses advised against: All uses not specified in this section or in section 7.3
- 1.3 Details of the supplier of the safety data sheet**  
Abundigro  
16 Bree St, 1808  
Cape Town  
South Africa  
Tel: +31 6 44665601  
Fax: +27(0)12 803 8418
- 1.4 Emergency telephone number,**  
**National advisory body/Poison Centre**  
Telephone number : SOUTH AFRICA  
Griffon Poison Information Centre  
(24 Hour Poisoning Emergency Helpline)  
+27(0)82 446 8946

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture:**

**CLP Regulation (EC) no 1272/2008:**  
Not classified

**2.2 Label elements**

**CLP Regulation (EC) no 1272/2008:**

**Hazard pictogram(s)** : None  
**Signal word** : None  
**Hazard statement(s)** : Non Hazardous

**Precautionary statement(s) :**

These precautionary statements are not prescribed by directive 1272/2008, as this product is not classified as hazardous under this directive.

P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

P103 - Read label before use.

P501 - Dispose of the contents/containers in accordance with the current legislation on waste treatment

**2.3 Other hazards**

Non-applicable

**SECTION 3: Composition/information on ingredients****3.1 Substance:**

Non-applicable

**3.2 Mixture:**

**Chemical description:** Fertiliser based on seaweed (*Ecklonia maxima*)

**Components:** The components of this product is not classified as hazardous

**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 for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

**By inhalation:**

This product does not contain substances classified as hazardous for inhalation, however, in case of symptoms of intoxication remove the person affected from the exposure area and provide with fresh air. Seek medical attention if the symptoms get worse or persist.

**By skin contact:**

In case of contact it is recommended to clean the affected area thoroughly with water and neutral soap. In case of modifications on the skin (stinging, redness, rashes, blisters) seek medical advice with this Safety data Sheet.

**By eye contact:**

This product does not contain substances classified as hazardous for eye contact. Rinse eyes thoroughly for at least 15 minutes with lukewarm water, ensuring that the person affected does not rub or close their eyes.

**By ingestion / aspiration:**

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

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

Acute and delayed effects are indicated in sections 2 and 11.

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

**Notes to physician:** In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments:** No specific treatment.

**SECTION 5: Firefighting measures****5.1 Fire Extinguishing Media****Suitable extinguishing media:**

Use any means suitable for extinguishing surrounding fire.

**Unsuitable extinguishing media:**

None known.

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

Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

**5.3 Additional provisions:**

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures:**

Isolate leaks provided that there is no additional risk for the people performing the task. Personal protection equipment must be used against potential contact with the spilt product (see section 8). Evacuate the area and keep out those who do not have protection.

**6.2 Environmental precautions:**

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways or soil). Collect spillage

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

Absorb the spillage using sand, saw dust or inert absorbent and move it to a safe place. For any concern related to disposal consult section 13.

**6.4 Reference to other sections:**

See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

**SECTION 7: Handling and storage****7.1 Precautions for safe handling:**

- A. Precautions for safe manipulation  
Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.
- B. Technical recommendations for the prevention of fires and explosions  
Due to its non-flammable nature, the product does not present a fire risk under normal conditions of storage, manipulation and use.
- C. Technical recommendations to prevent ergonomic and toxicological risks  
Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.
- D. Technical recommendations to prevent environmental risks  
It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

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

- A. Technical measures for storage  
Minimum Temp.: 5 °C  
Maximum Temp.: 30 °C  
Maximum time: 36 Months
- B. General conditions for storage  
Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

**7.3 Specific end use(s)**

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of 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 occupational exposure limits for the substances contained in the product

**8.2 Exposure controls****Appropriate engineering controls:**

No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

**Individual protection measures****Hygiene measures:**

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

**Eye/face protection:**

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. Possible: safety glasses with side-shields

**Skin protection****Hand protection:**

Protective gloves against minor risks.

**Body protection:**

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Other skin protection:**

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection:**

Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary.

**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. For additional information see subsection 7.1.D

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties,****Appearance**

Physical state	: Suspension concentrate
Colour	: Green
Odour	: Slight marine odour
Odour threshold	: Not available.
pH	: 6.15 (0.01% dilution with DI water @ 20.5° C)
Melting/freezing point	: Not available.
Specific Gravity	: 1.02 g/ml @ 22° C
Boiling point at atmospheric pressure	: Non-applicable *
Vapour pressure at 20 °C	: Non-applicable *
Vapour pressure at 50 °C	: Non-applicable *
Evaporation rate at 20 °C	: Non-applicable *

**Product description:**

Density at 20 °C	: Non-applicable *
Relative density at 20 °C	: Non-applicable *
Dynamic viscosity at 20 °C	: Non-applicable *
Kinematic viscosity at 20 °C	: Non-applicable *
Kinematic viscosity at 40 °C	: Non-applicable *
Vapour density at 20 °C	: Non-applicable *
Partition coefficient n-octanol/water 20 °C	: Non-applicable *
Solubility in water at 20 °C	: Soluble in water.
Solubility properties	: Non-applicable *
Decomposition temperature	: Non-applicable *
Melting point/freezing point	: Non-applicable *
Explosive properties	: Non-explosive in the presence of the following materials or conditions: open flames, sparks and static discharge, heat, shocks and mechanical impacts, oxidizing materials, reducing materials, combustible materials, organic materials, metals, acids, alkalis and moisture.

Oxidising properties : Non-applicable \*

**Flammability:**

Flash Point : Non Flammable (>60 °C)  
 Auto ignition temperature : Non-applicable \*  
 Lower flammability limit : Non-applicable \*  
 Upper flammability limit : Non-applicable \*

\*Not relevant due to the nature of the product, not providing information property of its hazards.

**9.2 Other information**

No additional information.

**SECTION 10: Stability and reactivity****10.1 Reactivity:**

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

**10.2 Chemical stability:**

Chemically stable under the conditions of storage, handling and use.

**10.3 Possibility of hazardous reactions:**

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

**10.4 Conditions to avoid:**

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Not applicable	Avoid	Not applicable

**10.5 Incompatible materials:**

Acids	Water	Combustive materials	Combustible materials	Others
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

**10.6 Hazardous decomposition products:** Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under fire conditions this product may decompose to liberate toxic carbon oxides (CO, CO<sup>2</sup>), nitrogen oxides (NO, NO<sup>2</sup>) and sulfur oxides (SO<sup>2</sup>, SO<sup>3</sup>).

**SECTION 11: Toxicological information****11.1 Information on toxicological effects**

The experimental information related to the toxicological properties of the product itself is not available.

**11.2 Dangerous health implications:**

In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure:

**A. Ingestion (acute effect):**

- Acute toxicity: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
- Corrosively/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

**B. Inhalation (acute effect):**

- Acute toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for inhalation. For more information see section 3.
- Corrosively/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

**C. Contact with the skin and the eyes (acute effect):**

- Contact with the skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for skin contact. For more information see section 3.
- Contact with the eyes: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

**D. CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):**

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for the effects mentioned. For more information see section 3.
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

**E. Sensitizing effects:**

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensitising effects. For more information see section 3.
- Cutaneous: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

**F. Specific target organ toxicity (STOT)-time exposure:**

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

**G. Specific target organ toxicity (STOT)-repeated exposure:**

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

**H. Aspiration hazard:**

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

**Other information:**

Non-applicable

**Specific toxicology information on the substance:**

No data available

**SECTION 12: Ecological information**

The experimental information related to the eco-toxicological properties of the product itself is not available.

**12.1 Toxicity:**  
Not available

**12.2 Persistence and degradability:**  
Not available

**12.3 Bio accumulative potential:**  
Not available.

**12.4 Mobility in soil:**  
Not available

**12.5 Results of PBT and vPvB assessment:**  
Not available

**12.6 Other adverse effects:**  
Not available

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods:**

The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

**Type of waste (Regulation EU no 1357/2014)**

Non hazardous

**Waste management (disposal and evaluation)**

Consult the authorized waste service manager on the assessment and disposal operations. We do not recommend disposal down the drain. See paragraph 6.2

**SECTION 14: Transport information**

	<b>Land transport (ADR/RID)</b>	<b>Inland waterway transport (AND/ADNR)</b>	<b>Sea Transport (IMDG)</b>	<b>Air transport (ICAO-TI / IATA-DGR)</b>
<b>14.1 UN Number</b>	Not regulated.	Not regulated.	Not regulated.	Not regulated.
<b>14.2 UN proper shipping name</b>	-	-	-	-
<b>14.3 Transport hazard class(es)</b>	-	-	-	-
<b>14.4 Packing group</b>	-	-	-	-
<b>14.5 Environmental hazards</b>	No.	No.	No.	No.
<b>14.6 Special precautions for user</b>	Not available.	Not available.	Not available.	Not available.
<b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:</b>	Not applicable	Not applicable	Not applicable	Not applicable



**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:**

Candidate substances for authorisation under the Regulation (EC) 1907/2006 (REACH): Non-applicable

Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable

Regulation (EC) 1005/2009, about substances that deplete the ozone layer: Non-applicable

Article 95, REGULATION (EU) No 528/2012: Non-applicable

Regulation (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

**Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc. ....):** 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:** Not available.**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)

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

Not Classified

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

Non hazardous

**CLP Regulation (EC) n° 1272/2008 (refer to section 3):**

Non hazardous

**Advice related to training:**

Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

**Principal bibliographical sources:**

<http://echa.europa.eu>

[www.dguv.de/ifa/gestis-dnel](http://www.dguv.de/ifa/gestis-dnel)

<http://eur-lex.europa.eu>

**Relevant P-, H- and EUH-phrases (number and full text)**

P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

P103 - Read label before use.

P501 - Dispose of the contents/containers in accordance with the current legislation on waste treatment

**Abbreviations and acronyms:**

ADR - European agreement concerning the international carriage of dangerous goods by road  
IMDG - International maritime dangerous goods code  
IATA - International Air Transport Association  
ICAO - International Civil Aviation Organisation  
COD - Chemical Oxygen Demand  
BOD5 - 5-day biochemical oxygen demand  
BCF - Bio concentration factor  
Log-POW - Octanol–water partition coefficient  
KOC - Partition coefficient of organic carbon

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The information and recommendations contained in this Safety Data Sheet ("SDS") relate only to the specific material referred to herein (the "Material") and do not relate to the use of such Material in combination with any other material or process. The information and recommendations contained herein are believed to be current and correct as of the date of this SDS. HOWEVER, THE INFORMATION AND RECOMMENDATIONS ARE PRESENTED WITHOUT WARRANTY, REPRESENTATION OR LICENSE OF ANY KIND, EXPRESS OR IMPLIED, WITH RESPECT TO THEIR ACCURACY, CORRECTNESS OR COMPLETENESS, AND THE SELLER, SUPPLIER AND MANUFACTURER OF THE MATERIAL AND THEIR RESPECTIVE AFFILIATES (COLLECTIVELY, THE "SUPPLIER") DISCLAIM ALL LIABILITY FOR RELIANCE ON SUCH INFORMATION AND RECOMMENDATIONS.

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