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**SECTION 1: PRODUCT AND COMPANY**

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- a. Product identifier: **TSL29 SEAWEED LIQUID FERTILIZER**
- b. Application: SEAWEED LIQUID FERTILIZER (Ascophyllum Nodosum)
- c. Name of Supplier, address and emergency telephone number:  
**Techsealab Company**  
**360, Rue Edmond Michelet**  
**29760, Penmarc'h – France**  
**+33 (0)2.98.58.61.12**  
**Contact Person: Mr André Yvin**  
**Issued by: Technical Department (Techsealab)**
- d. Name of Manufacturer, address and emergency telephone number:  
**Techsealab Company**  
**360, Rue Edmond Michelet**  
**29760, Penmarc'h – France**  
**+33 (0)2.98.58.61.12**  
**Contact Person: Mr André Yvin**  
**Issued by: Technical Department (Techsealab)**

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**SECTION 2: COMPOSITION OF PRODUCT**

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No.	Ingredients Name	CAS-NO	Cons. (weight%)	Classification
1	Seaweed Liquid Fertilizer	n/a	100%	IK

Legend: T+ = Very Toxic, T = Toxic, C = Corrosive, Xn = Harmful, Xi = Irritant, IK = No Classification Required, E = Explosive, O = Oxidizing, F+ = Extremely Flammable, F = Very Flammable, Fo = Flammable, N = Dangerous to Environment, Mu = Genotoxic, Sens = Sensitizing, Carc = Carcinogen, Repr = Causes Birth Defects

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**SECTION 3: HAZARD IDENTIFICATION**

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This product does not require labeling.

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**SECTION 4: FIRST AID MEASURES**

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- a. **General:** Non-hazardous material. If irritation or discomfort occurs, seek medical advice from a physician.
- b. **Eye contact:** Non-irritating to ocular tissue. Immediately flush eyes with plenty of water. Keep eyes wide open while flushing. Seek medical attention if irritation occurs.
- c. **Skin contact:** Non-irritating to skin. Wash with mild soap and water. Seek medical attention if discomfort occurs.
- d. **Inhalation:** Non-toxic. Do not intentionally breathe vapors.

- e. **Ingestion:** Non-toxic if ingested. Drink plenty of water or milk. Seek medical attention if discomfort occurs. Ascophyllum nodosum is classified as novel food by CSHPF 2007.
- f. **Over exposure:** Not applicable.

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**SECTION 5: FIRE FIGHTING MEASURES**

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- a. **Flash point:** Not applicable.
- b. **Flammable limits:** Not applicable.
- c. **Proper firefighting equipment:** Use extinguishing media appropriate for surrounding fire. Caution, slippery in liquid form or when mixed with water.
- d. **Fire and explosion hazards:** Non-flammable. Non-explosive.

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**SECTION 6: UNINTENTIONAL LIBERATION OR RELEASE MEASURES**

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- a. **Safety measurements to protect persons:** Gloves and eye protection should be worn when handling based on staining.
- b. **Proper methods for damage limitation and cleanup:** Spills may be easily cleaned by removing as much material as possible and washing remaining spill with copious amounts of water. Product may become slippery with the addition of clean-up water. Gloves and eye protection should be worn due to temporary staining.

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**SECTION 7: HANDLING AND STORAGE**

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- a. **Handling advice:** Avoid handling which may cause staining. Use personal protective equipment as specified in Section 8.
- b. **Storage:** Store in cool place and out of direct sunlight. Keep from freezing below -15°C. Do not contaminate water, food or feed by storage or disposal.

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**SECTION 8: EXPOSURE CONTROL AND PERSONAL PROTECTION**

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- a. **Exposure control:** No specific ventilation requirements. Eyewash facilities should be available.
- b. **Respiration protection:** No respirator is required.
- c. **Eye protection:** Eye protection should be worn when handling due to temporary staining.
- d. **Hand protection:** Gloves should be worn when handling due to temporary staining.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Form</b>	Liquid suspension	<b>Air Reactive</b>	n/a
<b>Color</b>	Green	<b>Percent Volatile (by Volume)</b>	n/a
<b>Odor</b>	Marine-Like	<b>Density</b>	1,07 g/cc
<b>Solubility</b>	100% Water dispersible	<b>Solubility in Water</b>	100% at 20°C
<b>Melting Point/Range</b>	n/a	<b>Saturation Conc.</b>	Not Determined
<b>Expl. Limit LEL-UEL. %-%</b>	n/a	<b>Rel. Density Sat. Air (Air=1)</b>	Not Determined
<b>Vapor Pressure</b>	Not Determined	<b>Boiling Point/Range</b>	100°C (212°F)
<b>Decomposition Temp.</b>	Not Determined	<b>pH Concentrate</b>	3,5 ± 0,5
<b>pH Solution</b>	3,5 ± 0,5	<b>Viscosity</b>	<100 cp
<b>Flash Point</b>	Not Determined	<b>Smelling Limits lo-hi</b>	Not Determined
<b>Molecular Weight</b>	n/a	<b>Rel. Evap. Velocity</b>	Not Determined
<b>Ignition Temp.</b>	550°C	<b>Water Reactive</b>	n/a
<b>Rel. Vapor Density (air=1)</b>	Not Determined		

## SECTION 10: STABILITY AND REACTIVITY

- a. **Stability:** Product is stable.
- b. **Conditions to avoid:** Excessive heat or freezing.
- c. **Materials to avoid:** Oxidants and acids may cause degradation.
- d. **Hazardous decomposition products:** Not applicable.
- e. **Hazardous polymerization:** Will not occur.

## SECTION 11: TOXICOLOGICAL INFORMATION

- a. **Acute oral toxicity:** Non-toxic orally. Ingestion of significant amounts may cause nausea and discomfort.
- b. **Acute ocular toxicity:** Non-irritating to the ocular tissue of non-irrigated eyes.
- c. **Acute dermal toxicity:** Not toxic dermally. No treatment-related effects were observed.
- d. **Acute dermal irritation:** No irritation or corrosive effects were observed.
- e. **Inhalation toxicity:** Not hazardous by inhalation.
- f. **Skin sensitization:** Very slight erythema observed with no other signs of irritation.

## SECTION 12: ECOLOGICAL INFORMATION

- a. **Breakdown:** Biodegradable. Product presents minimal environmental impact.
- b. **Ecotoxicity:** Plant nutritional supplement and growth stimulant, high concentrations may cause burn of plants. Non toxic to marine algae, vertebrates or invertebrates.

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**SECTION 13: DISPOSAL CONSIDERATIONS**

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Not classified as hazardous waste. Product must be disposed of according to Federal State or local procedures.

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**SECTION 14: TRANSPORT INFORMATION**

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**General:** Non hazardous material according to transport regulations. No special precautions are necessary.

**Proper shipping name:** TSL29 SEAWEED LIQUID FERTILIZER

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**SECTION 15: REGULATORY INFORMATION**

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- a. **Composition:** Seaweed Liquid Fertilizer (Ascophyllum nodosum. Linnae, Lamouroux).
- b. **R-phrases:** The product does not require labeling. Marking according to hazardous product regulations is not required.
- c. **References:** The M.S.D.S is prepared on basis of careful analysis of informations available at Techsealab.

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**SECTION 16: OTHER INFORMATION**

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a. **Issued:** January 2019

b. **Vendor notes:**

Every endeavor has been made to ensure that the information contained in this M.S.D.S leaflet is reliable, but we cannot accept liability for any loss, injury or damage, which may result from its use or misuse. Data given in this M.S.D.S is solely for the guidance in safe handling and use of the product by customers; they do not form part of any specification. If any difficulties arise, we shall be glad to discuss them. Customers are encouraged to conduct their own tests following discussion with our technical department. The above information is based on experience, but it is always advisable for customers to satisfy themselves, by consultation with our technical department and small-scale testing is necessary, that product, which they have selected, is suitable for their purpose under their conditions of use.