

## SAFETY DATA SHEET

Version: 4.0 / 04-22-2021  
Exclusive use: EE. UU.

### 1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY

#### 1.1 Product identifier

**Name of the product:** ZnKelp®

**Other means of identification:** None.

**Description of the product:** Zinc sulfate solution stabilized with seaweed extract (*Macrocystis pyrifera* and *Gelidium robustum*).

#### 1.2 Identified uses of the substance or mixture

**Identified uses:** Organ-mineral fertilizer liquid for agricultural use.

#### 1.3 Manufacturer information

**Name of the company:** Algas y Extractos del Pacífico Norte AEP, S.A. de C.V.  
Prolongación Río Grijalva #1034 Col. Carlos Pacheco. Z.C. 22890,  
Ensenada, B.C., México.

**Phone numbers** +52 (646) 172 2091 / 120 7984

**e-mail:** contacto@algaspacific.com

**Website:** www.algaspacific.com

#### 1.4 Emergency phone numbers

**National Center of Communications / National Civil Protection System (CENACOM for its initials in Spanish)**

+52 (800)-004-1300 / +52 (55)-5128-0000

Hours: 24/7, 365 days of the year.

**Guidance Center for Environmental Emergencies Response (COATEA for its initials in Spanish)\***

+52 (800)-710-4943 / (55)-5449-6391

Hours: Monday to Friday from 09:00 to 18:00 hrs.

\*In case of an emergency, only information, guidance and technical assistance are provided for the response of environmental emergencies associated with the handling of hazardous materials and waste, and chemicals in general.

**Transportation Emergency System for the Chemical Industry (SETIQ for its initials in Spanish)**

+52 (800)-002-1400 / (55)-5559-1588

### 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance / mixture

Non-dangerous substance or mixture.

The product is not classified as dangerous according to the NOM-018-STPS-2015.

#### 2.2 Elements of signaling, precautionary statements, and hazard pictograms

Non-dangerous substance or mixture. However, consider the following warnings:

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Name of the product **ZnKelp®**

Pictogram



Signalword Warning

### Hazard statement(s)

H303 May be harmful if swallowed.  
H313 May be harmful in contact with skin.  
H320 Causes eye irritation.

### Precautionary statement(s)

P391 Collect spillage.  
P501 Dispose of contents/container in an authorized waste plant.  
P103 Read label before use.  
P263 Avoid contact during pregnancy/while nursing.  
P264 Wash thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P280 Wear protective gloves, protective clothing, eye protection, and face protection.  
P301+P312 If swallowed, call a poison center or a doctor.  
P302+P352 If on skin, wash with plenty of water.  
P333+P313 If skin irritation or a rash occurs, get medical attention.  
P301+P330+P331 If swallowed, rinse mouth. Do not induce vomiting.  
P305+P351+P338 If in eyes, rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do.

### 2.3 Other hazards not otherwise classified

This product does not have components considered as persistent, bioaccumulative, and toxic (PBT) at levels of 0.1 % or higher.

Under normal use and in its original form, the product has no negative effects on health and on the environment.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

### 3.1 Substances and mixtures

#### Seaweeds' extract:

Type of seaweed	No. CAS	Concentration
<i>Macrocystis pyrifera</i>	347174-92-9	80.00 %
<i>Gelidium robustum</i>	Not available	

#### Auxiliary ingredients:

Inert, stabilizing, minerals agents	Not applicable	20.00 %
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### 3.2 Other available data

GUARANTEED ANALYSIS	%
Total Nitrogen (N)	0.26 %
0.03 % Ammoniacal Nitrogen	
0.10 % Nitrate Nitrogen	
0.04 % Water Soluble Nitrogen	
0.09 % Water Insoluble Nitrogen	
Available Phosphoric Acid (P <sub>2</sub> O <sub>5</sub> )	0.24 %
Soluble potash (K <sub>2</sub> O)	1.85 %
Sulfur (S)	3.20 %
Zinc (Zn)	5.20 %

## 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

#### General recommendations

Have product container or label at hand before getting medical attention.

#### If on skin

Take off immediately all contaminated clothing. Wash the area with soap and water.

#### If in eyes

Rinse or wash the eyes with plenty of water for at least 15 minutes. If eye irritation persists, get medical attention.

#### If swallowed

Drink plenty of water and do not induce vomiting. If poisoned, get medical attention and show the product's label or safety data sheet.

#### If inhaled

If thermal decomposition of the product occurs, remove the affected person from the expose area. Keep them in a ventilated and fresh place, even if they do not have obvious symptoms. Get medical attention if the person feels unwell.

### 4.2 Main symptoms and major, acute, and chronic effects

**Skin:** Contact may cause irritation.

**Eyes:** Splash in the eyes may cause irritation.

**Swallowing:** May cause gastrointestinal tract disorders.

**Inhaling:** Does not irritate the respiratory tract.

**Acute and chronic:** No known acute or delayed effects resulting from exposure to the product.

### 4.3 Medical attention and special treatments that must be immediately provided

A symptomatic treatment appropriate to the condition of the patient is recommended.

## 5. FIREFIGHTING MEASURES

### 5.1 Suitable extinguishing media

Use water mist extinguishers CO<sub>2</sub> or chemical powder.

### 5.2 Fire or explosion hazard

The product is not flammable.

### 5.3 Specific hazards on exposure of the substance to fire

No data available.

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### 5.4 Firefighting protective equipment

Use a breathing mask or self-contained breathing apparatus when fire fighting.

### 5.5 Other available data

Keep away from smoke. Fight the flames downwind and from a safe distance to minimize contact with the materials. Cool the containers exposed to the fire with spray water.

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Precautions, protective equipment, and emergency procedures

Use appropriate personal protective equipment (see section 8). Secure adequate ventilation and evacuate the staff to safe areas.

### 6.2 Environmental precautions

Avoid spillage on soil, rivers, lakes, lagoons, or other water bodies.

### 6.3 Methods and materials for containment and cleanup

Clean and dispose in accordance with federal, state, and local regulations or permits. Isolate the spillage area. The product is considered nontoxic and it may be easily collected or diluted using water, sawdust, or other absorbent material. Keep in suitable and closed containers for its disposal.

### 6.4 References to other sections

For waste disposal, see section 13.

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

The product is harmless when properly handled. If the product is mixed with any other chemical compound, it is recommended to use appropriate protection (overalls, gloves, rubber boots, and mask) for its application.

### 7.2 Conditions for safe storage

Keep the container hermetically sealed in a fresh, dry, well-ventilated place. Keep away from direct sunlight. Do not store alongside food products. Keep out of reach of children.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

#### **Components with occupational exposure environmental limit values**

No data available.

### 8.2 Exposure controls

#### **Suitable technical controls**

Use basic application equipment: gloves, rubber boots, overalls, and face protection.

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### 8.3 Personal protective measures

<b>Respiratory protection:</b>	Not required.
<b>Skin protection:</b>	Neoprene or latex gloves. Tyvek coveralls with hood.
<b>Eyes protection:</b>	Protective glasses with side shields.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information about physical and chemical properties

<b>Appearance:</b>	Liquid, light brown.
<b>Odor:</b>	Characteristic of seaweed.
<b>Odor threshold:</b>	No data available.
<b>pH:</b>	6 ± 0.5
<b>Melting point / freezing point:</b>	No data available.
<b>Initial boiling point and boiling range:</b>	100°C (212°F)
<b>Flashpoint:</b>	No data available.
<b>Evaporation rate:</b>	No data available.
<b>Flammability (solid or gas):</b>	No data available.
<b>Upper/lower flammable/explosive limit:</b>	No data available.
<b>Vapor pressure:</b>	No data available.
<b>Vapor density:</b>	No data available.
<b>Relative density:</b>	1.15 ± 0.05 g/cm <sup>3</sup>
<b>Solubility:</b>	Water soluble.
<b>Partition coefficient: n-octanol/water:</b>	No data available.
<b>Auto-ignition temperature:</b>	No data available.
<b>Decomposition temperature:</b>	No data available.
<b>Viscosity:</b>	No data available.
<b>Specific gravity:</b>	No data available.
<b>Volatile organic compounds:</b>	No data available.
<b>Corrosiveness:</b>	No data available.

### 9.2 Other safety information

No data available.

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

Stable product. Non reactive.

### 10.2 Chemical stability

The product is stable if used according to specifications.

### 10.3 Potential dangerous reactions

No data available.

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### 10.4 Conditions to be avoided

Excessive heat or freezing.

### 10.5 Incompatible materials

The product is incompatible with strong acid or alkaline reaction materials.

### 10.6 Hazardous decomposition products

The nature of decomposition products is unknown.

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information about toxicological effects

<b>Acute toxicity:</b>	No data available.
<b>Skin corrosion or irritation:</b>	Non irritating for skin.
<b>Severe eye injury or irritation:</b>	Non irritating for the eyes.
<b>Respiratory or skin sensitization:</b>	Non sensitizing for skin.
<b>Mutagenicity germ cells:</b>	Non mutagenic.
<b>Carcinogenicity:</b>	No compound listed as carcinogenic or with carcinogenic potential by the IARC, NTP, or OSHA is identified.
<b>Reproductive toxicity:</b>	No data available.
<b>Teratogenicity:</b>	No data available.
<b>Specific toxicity in certain organs (one-time exposure):</b>	No data available.
<b>Specific toxicity in certain organs (repeated exposure):</b>	No data available.
<b>Inhalation hazard:</b>	No data available.

### 11.2 Additional information

No data available.

## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

No data available.

### 12.2 Persistence and degradability

Biodegradable. The product shows a minimum environmental impact.

### 12.3 Bioaccumulative potential

No data available.

### 12.4 Mobility in soil

No data available.

### 12.5 Other adverse effects

No data available.

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### 13. DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment method

##### Product

It is recommended to rinse the container with water when it is emptied. The remnant may be used as a product in the same crop field.

##### Containers

Dispose the container in compliance with the General Law for the Prevention and Integral Management of Waste or Handling Plan for Pesticides Containers registered at the SEMARNAT.

### 14. TRANSPORT INFORMATION

#### 14.1 UN Number

ADR/RID: -                      IMDG: -                      IATA: -

#### 14.2 UN proper shipping name:

ADR/RID:                      Non-hazardous goods.  
IMDG:                      Non-hazardous goods.  
IATA:                      Non-hazardous goods.

#### 14.3 Transport hazard classes

ADR/RID: -                      IMDG: -                      IATA: -

#### 14.4 Packing group

ADR/RID: -                      IMDG: -                      IATA: -

#### 14.5 Environmental risks

ADR/RID: -                      IMDG: -                      IATA: -

#### 14.6 Special precautions for users

No data available.

### 15. REGULATORY INFORMATION

#### SARA Title III

This material does not contain any chemical component of the known CAS numbers that exceed the reported level threshold (de minimis) established by SARA III, sections 302, 311/312 and 313.

#### CERCLA (US)

No relevant CERCLA quantity has been established for this material.

#### TSCA (US)

No ingredient of this product is regulated in the TSCA inventory.

#### FDA

This material does not contain any components subject to the requirements reported by the FDA.

#### Declaraciones-R

Unclassified.

#### Declaraciones-S

Unclassified.

#### Declaraciones-H

Unclassified.

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### 16. OTHER INFORMATION

#### 16.1 Dates of preparation and reviews

Preparation date: Jun 15, 2020.  
Last review date: April 22, 2021.

#### 16.2 Acronyms and abbreviations

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
US	United States of America
FDA	Food and Drug Administration
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Code CAS
No.CAS	Chemical Abstracts Service Number
NTP	National Toxicology Program
UN	United Nations Organization
OSHA	Occupational Safety and Health Administration
RID	European Agreements concerning the International Carriage of Dangerous Goods by Rail
SARA	Superfund Amendments and Reauthorization Act
SEMARNAT	Secretaría de Medio Ambiente y Recursos Naturales (Secretariat of Environment and Natural Resources)
TSCA	Toxic Substances Control Act
cm <sup>3</sup>	Cubic centimeters
g	Gram
pH	Potential Hydrogen
°C	Celsius Degrees
°F	Fahrenheit Degrees

#### 16.3 Additional information

**ALGAS Y EXTRACTOS DEL PACÍFICO NORTE AEP S.A. de C.V.**, guarantees the composition and net content of the product as long as the security seals of the containers have not been tampered with or broken. Since storage, transportation, handling, application, and dosage of the product are beyond our control, no liability is accepted for the effects and/or results.