



**SAFETY DATA SHEET ACCORDING TO NCh.2245:2015****1. PRODUCT IDENTIFIER AND PRODUCER**

Product name	SEABIOSOIL® TRIO
Recommended Use	Liquid fertilizer for agricultural use and soil enhancer.
Usage restrictions	Not described in this safety data sheet
Supplier name	COMEXAL SPA
Address	La Capitanía N°80, Of 108 - Santiago, Chile.
Telephone	T: +569 9737 9372
Emergency telephone in Chile	T: +569 5811 2204
Manufacturer information	COMEXAL SPA
Email address of supplier	ventas@seabiotech.cl

**2. HAZARDS IDENTIFICATION**

Classification NCh382	Classified as non hazardous according to N.Ch (Chilean Standard) 382:2017
Certification Mark NCh2190	Not applicable
Classification SGA (GHS)	Skin corrosion/Irritation category 1. Serious eye damage /Eye irritation category 1
Pictogram SGA (GHS)	
Specific classification according to Chilean resolution NCH1411/4 -year 2000	
Specific classification RES according to Chilean resolution N°2.196 year 2000	Not applicable
Specific Mark	Not applicable

Hazard description (Precautionary Statements)	<p>P264 Wash thoroughly after handling</p> <p>P280 Wear protective gloves/Protection clothes /eye protection /face protection</p> <p>P302 + P352 IF ON SKIN wash with plenty of water</p> <p>P332 + P317 If skin irritation occurs; seek for medical advice</p> <p>P362 + P364 Take off contaminated clothing and wash before reuse.</p> <p>P305 + P351 + P338 IF ON EYES : Rinse cautiously with water for several minutes.</p> <p>Remove contact lens if present and continue rinsing.</p> <p>P337 + 317 If eye irritation persists, seek for medical advice</p>
Description of specific hazards (Hazard Statements)	<p>H315 Causes skin irritation</p> <p>H319 Cause serious eye damage</p>
Other Hazards	Not applicable

### 3. COMPOSITION/ COMPONENTS INFORMATION

This product is classified as a mixture. It is not considered as Hazardous according to N.Ch. (Chilean Standard) 382:2017

Common/ generic name: Humic acid extracts and marine macroalgae

		Component 2
Systematic Chemical Name	Humic acid extract	Marine algae extract
Common generic Name	Humic acid extract	Marine algae extract
CAS number	1415-93-6	N/A
Concentration Range	65%	35%

### 4. FIRST AID – PRECAUTIONS

This product is classified as a mixture. It is not considered as Hazardous according to N.Ch. ( Chilean Standard ) 382:2017

Common/ generic name: Humic acid extracts and marine macroalgae

Contact Method	First Aid Measure
Inhalation	Move the person to fresh air
Skin contact	Wash thoroughly with neutral soap and water
On contact with eyes	Rinse thoroughly with plenty water for at least 15 minutes (If contact lens remove)

Ingestion	Rinse mouth with water and afterwards drink plenty of water
Expected acute effects	No effects known
Expected delayed effect	No effects known
Most important symptoms/effects	Irritant effects on the skin
Protection for first Aid responders, notes for the attending physician	Treat symptomatically, wear nitrile gloves and safety goggles. In case of contact, rinse with plenty of water

## 5. FIRE – FIGHTING MEASURES

Suitable extinguishing Media	Water spray, dry chemical, carbon dioxide or chemical foam
Unsuitable extinguishing media	No restrictions described
Special hazards arising from the substance combustion and thermal degradation	In case of fire, smoke may contain components of the product and may be toxic and/or irritating. Thermal decomposition may release carbon dioxide (CO <sub>2</sub> ) and carbon monoxide (CO)
Specific extinguished methods	<p>Proceed according to the workplace emergency plan, otherwise, follow the instructions below:</p> <ul style="list-style-type: none"> <li>- Keep personnel away from the fire and isolate the affected area</li> <li>- Do not take any action unless you are properly trained</li> <li>- Remove materials from the fire area and apply the recommended extinguishing measures, only if it can be done without risk.</li> </ul>
Precautions for fire fighters and/or emergency responders	Avoid contact with the skin and eyes: Its effect is diluted in water. Use protective equipment.

## 6. ACCIDENTAL REALEASE MEASURES

Spillage	Contain the spill and absorb with appropriate inert material. If material is uncontaminated, it may be reused.
Personal protective equipment	Use personal protective equipment when handling the spill to avoid direct contact. For further information refer to section 8 of this SDS, "Exposure Controls/Personal protection."
Emergency procedures	Act according to the workplace emergency plan; otherwise, follow the instructions below: Isolate the area and evacuate personnel to a previously designated safe zone. Contain the spread of the spilled material by setting up a containment barrier.
Environmental precautions	Isolate the spill and prevent spills from reaching sources of water.

Methods and materials for containment and confinement/control	Remove containers from the spilled area. Do not allow to reach sewage or sources of water. Absorb with non-combustible materials such as vermiculite, sand or dry soil. Thoroughly clean the contaminated surface.
Methods and materials for cleaning up, recovering, neutralization and final disposal	Clean the material using absorbent cloths, collect it with shovels and place it in properly labeled containers for final disposal: Dilute any remaining residues with water and wash the affected area.
Additional disaster prevention measure	Do not dispose of waste into water sources or drainage systems.

## 7. HANDLING AND STORAGE

Precautions for safe handling	Handling must be performed by adults only. Avoid contact with eyes and skin. Follow the personal protective measures described in section 8. Respiratory protection is not required. Sealed containers may develop internal pressure. Once opened, close carefully and store upright.
Operational and technical measures for exposure prevention	Avoid dropping or damaging containers; store in an area away from direct sunlight and at ambient temperature to maintain the integrity of the containers and lids.
Other precautions	Not applicable.
Conditions for safe storage	Store in a cool place away from direct sunlight. Keep out of the reach of children and animals and separate from food.
Incompatible substances and mixtures	Do not mix with acidic products that may lower the pH of the irrigation tank solution below 5.
Recommended packaging material	Recyclable high-density polyethylene (HDPE) containers with high molecular weight (HMW) or similar materials.

## 8. PERSONAL PROTECTION

Maximum available concentration	Not specified
Personal protective Equipment	The use of chemical protective goggles, rubber or nitrile gloves, apron, and waterproof footwear is recommended when handling.
Respiratory Protection	Not required. If desired, respiratory protection meeting current standards may be used.
Hand protection	Rubber or nitrile gloves
Eye protection	Chemical eyes goggles

Skin and body protection	Apron and waterproof footwear
Engineering control to reduce exposition	Not applicable

## 9. PHYSICAL PROPERTIES

Form	Liquid
Color	Deep black liquid, with a mild smell of algae.
Concentration	65% Leonardite + 35% seaweed extract
pH at 10%	11
Boiling point	100°C approx
Flash point	Not applicable
Auto-ignition temperature	Not applicable
Flammability limits	Not inflammable
Vapor density	Not available information
Density	1100.00 g/l
Solubility in water and other solvents	99.9% solubility in wáter

## 10. STABILITY

Stability	Stable for 3 years, under recommended storage, transport and handling.
Conditions to avoid	Store away from direct sunlight below 0 or above 30°C.
Incompatible materials	Strong oxidizing agents and metals.
Hazardous decomposition products	Not applicable.
Hazardous combustion products	Carbon Dioxide (CO <sub>2</sub> ) and Carbon Monoxide (CO).
Intended use and misuse	Compatible with most pesticides. Dilute before performing compatibility test with other products.

## 11. TOXICOLOGICAL INFORMATION

Acute toxicity (LD50, LC50)	Classified as non-toxic according to GHS. Potassium hydroxide CAS 1310-58-3: LD50 oral: 333 mg/kg in rats.
Skin irritation/corrosion	May cause skin irritation - Category 1.
Serious eye damage	May cause serious eye irritation category 1.
Respiratory or skin sensitization	No information available.
Mutagenicity of reproductive cells	No information available.
Carcinogenicity	No information available.
Reproductive toxicity	No information available.
Inhalation hazard	May cause irritation.

## 12. ECOLOGICAL INFORMATION

Ecotoxicity (EC, IC, LC)	Not classified as ecotoxic according to GHS. Potassium hydroxide CAS 1310-58-3: LC50: 80 mg/L - mosquito fish (96 h).
Persistence/degradability	No information available.
Bio accumulative potential	No information available.
Mobility in soil	No information available.

## 13. DISPOSAL CONSIDERATIONS

Recommended and approved methods under Chilean regulation for safe final disposal	Does not classify as hazardous under Chilean regulations Supreme Decree (S.D.) 148. Contaminated absorbents and surplus products must be buried according to local regulations. Do not incinerate containers.
Container disposal	This container is not classified as hazardous waste according to D.S. N°148/2004. Rinse the container thoroughly with water before disposal. The container should be recycled in accordance with local regulations. Do not reuse the container for water or food.

#### 14. TRANSPORT INFORMATION

	LAND	MARITIME	AIR
Regulations	ADR/RID	IMDG	IATA
UN number	Not applicable	Not applicable	Not applicable
Proper shipping name	Not applicable	Not applicable	Not applicable
Primary Hazard class	Not hazardous	Not hazardous	Not hazardous
Subsidiary Hazard class	Not applicable	Not applicable	Not applicable
Packing group	Not assigned	Not assigned	Not assigned
Environmental hazards	None identified	None identified	None identified

#### 15. REGULATORY INFORMATION

	<p>NCh 2245. Of2015 INN: Chemical substances - Safety Data sheets</p> <p>NCh 382. Of2017 INN: Hazardous substances – General information</p> <p>NCh 1411/4, Of2000 INN: Risk prevention: Safety signs for Hazard identification of material</p> <p>NCh. 2190, Of2003 INN: Transport of Hazardous substances and Risk identification.</p> <p>Exempt Resolution N°408/2016. MINSAL, (Chilean Ministry of Health) List of hazardous substances and labels for risk identification</p>
Local Regulations	<p>S.D N° 18/1982 Certification of quality Standards for Personal Protective Equipment (PPE) for occupational risk protection</p> <p>S.D N° 594/2000 Regulation on Basic Environmental and sanitary conditions in workplaces.</p> <p>S.D N° 298/1994 Ministry of Transport and Telecommunications. Transport of dangerous goods on public roads .</p> <p>S.D N° 43/2015 MINSAL: Regulation on Storage of Hazardous substances</p> <p>Law N° 20.089 Ministry of Agriculture, National Organic Product Certification System</p> <p>SGS, Safety Management System</p> <p>RID, International Regulations concerning the International Carriage of Dangerous Goods by rail or ADR, Accord européen relatif au transport international des marchandises dangereuses par route .</p>
International Regulations	<p>IMDG, International Maritime Dangerous Goods &lt;br&gt;IATA, International Air Transport Association</p> <p>REACH, EC Regulation, 1907/2007, Registration, Evaluation, Authorization and Restriction of Chemicals</p> <p>Regulation (CE) 1272/2008, on classification, labeling and Packaging of substances and mixtures.</p>
Mark on Label	<p>GRE2020, Emergency Response Guide 2020 de Canadá, EE.UU y México.</p> <p>Not applicable</p>

## 16. ADDITIONAL INFORMATION

Update date	Safety Data Sheet updated in accordance with new Chilean Standard N.CH 22415/2015 14-04-2024
Next review date	3 years from the update date (April 14, 2024)
Sources of information	MINSAL, <a href="https://www.minsal.cl/wp-content/uploads/2016/10/NCh-2245-2015.pdf">https://www.minsal.cl/wp-content/uploads/2016/10/NCh-2245-2015.pdf</a> REACH, Regulation for Registration, Evaluation, and Restrictions of Chemicals Substances of December 18th 2006 ECHA, European Chemicals Agency HSDB, Hazardous Substances Data Bank