

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

Name of the product	SEABIO®DUO
Recommended use	Bioestimulant
Usage restrictions	Uses not specified in this safety data sheet
Supplier name	COMEXAL SPA
Address	La Capitanía N°80, Of 108 - Santiago, Chile
Telephone	+569 9737 9372
Emergency telephone number in Chile	+569 5811 2204
Manufacturer	COMEXAL SPA
E-mail 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
GHS Classification	Skin corrosion/Irritation category 1. Serious eye damage /eye irritation category 1

GHS pictogram



Signal words



Warning

Specific classification
according to Chilean resolution N°2.196 del 2000 Not applicable

Specific mark	Not applicable
Hazard description	<p>P264 wash hands thoroughly after handling</p> <p>P280 Wear protective gloves, clothing, and eye/face protection</p> <p>P302 + P352 In case of skin contact rinse with plenty of water</p> <p>P332 + P317 If skin irritation occurs, seek medical advice</p> <p>P362 + P364 Remove contaminated clothing and wash before use</p> <p>P305 + P351 + P338 In case of eye contact: Rinse cautiously with water for several minutes. Remove contact lens if present and continue rinsing.</p> <p>P337 + 317 If eye irritation persists, consult a physician</p>
Description of specific hazards	<p>H315 Cause 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 hazardous according to N.Ch. (Chilean Standard) 382:2017

Comon/ Generic Name: Seaweed Extract

	Component
Systematical Chemical name	Marine algae extract
Common or Generic Name	Marine Algae Extract
CAS Number	N/A
Concentration Range	100%

4. FIRST AID AND PRECAUTIONS

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 lenses remove)
Ingestion	Rinse mouth with water and afterwards drink plenty of water
Expected acute effects	No information available
Expected delayed effects	No information available
Most important symptoms/effects	Irritant on the skin
Protection for first aid responders/specific notes for the attending physician	Treat symptomatically, wear nitrile gloves and chemical safety goggles. In contact rinse with plenty of water.

5- FIRE – FIGHTING MEASURES

Extinguishing media	Use water spray, dry chemical, carbon dioxide (CO ₂) 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 ₂) and carbon monoxide (CO).
Specific Extinguished Methods	Proceed according to the site's emergency response plan. If unavailable, follow the instructions below: - Keep personnel away from fire and isolate the affected area - Do not take any action without proper training. - Remove materials from the fire area if it can be done without risk, apply recommended extinguishing measures as appropriate.
Precautions for firefighters and/or emergency responders	Avoid contact with the skin and eyes. Its effects are diluted in water. Use protective equipment.

5. ACCIDENTAL RELEASE MEASURES

Spillage	Contain the spill and absorb. If the spilled material is uncontaminated, it may be reused.
Personal protective equipment	Use personal protective equipment when handling the spill to avoid direct contact.
Emergency Procedures	Proceed according to the site's emergency response plan. If unavailable, follow the instructions below: Isolate the area and evacuate personnel to a designated safe zone. Prevent the spread of spilled material by building a containment barrier.
Environmental precautions	Isolate the spilled material and avoid contact with sources of water.
Methods and materials for containment and confinement/control	Remove containers from the spilled area. Do not allow sewage or effluent systems to reach. 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 properly labeled containers for final disposal: Dilute any remaining residues with water and wash the affected area.

Additional measures for disaster prevention	Do not dispose the residues in sources of water or sewage effluent systems.
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6. HANDLING AND STORAGE

Precautions Safe handling	Handling should be performed only by adults, avoiding contact with eyes and skin. Use the personal protective equipment recommended in section 8. Respiratory protection is not required. Sealed containers may develop internal pressure. Once opened close tightly and store in upright position.
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 containers and lids.
Other precautions	Not applicable
Conditions for safe storage	Store in a cool place, away from direct sunlight. Keep out of 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 6.
Recommended Packaging Materials	Recyclable high-density polyethylene (HDPE) containers with high molecular weight (HMW) or similar materials.

7. PERSONAL PROTECTION

Maximum available concentration	Not specified
Personal Protective equipment	The use of chemical safety 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 safety goggles
Skin and body protection	Apron and waterproof footwear
Engineering controls to reduce exposure	Not applicable

8. PHYSICAL PROPERTIES

<u>Form</u>	Liquid
<u>Color and odour</u>	Amber, seaweed smell
<u>Concentration</u>	100% seaweed extract
<u>pH at 10%</u>	6,8
<u>Boiling point</u>	Approximately 100°C
<u>Flash point</u>	Not applicable
<u>Auto-ignition temperature</u>	Not applicable
<u>Flammability limits</u>	Not flammable
<u>Vapor pressure</u>	Not available information
<u>Vapor density</u>	Not available information
<u>Density</u>	1070.00 g/L
<u>Solubility in water and other solvents</u>	99.9% in water

9. STABILITY

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

10. TOXICOLOGICAL INFORMATION

Acute toxicity (LD50, LC50)	Classified as non-toxic according to GHS criteria. Contains Potassium Hydroxide (CAS 1310-58-3) Oral – LD50 (Rats); 333mg/kg.
Skin corrosion/irritation	May cause severe skin irritation - Category 1.
Serious eye damage/eye irritation	May cause serious eye irritation – Category 1.
Respiratory or skin sensitization	No Information available.
Germ cell mutagenicity (in Vitro)	No information available.

Carcinogenicity	No information available.
Reproductive toxicity	No information available.
Aspiration hazard	May cause irritation by inhalation.

11. ECOLOGICAL INFORMATION

Ecotoxicity	No clasificado como peligroso para el medio ambiente acuático según GHS. Contiene Hidróxido de Potasio (CAS 1310-58-3) LC50: 80 m/L (96 h), pez mosquito.
Persistence / degradability	No hay información disponible.
Bio accumulative potential	No hay información disponible.
Mobility in soil	No hay información disponible.

12. DISPOSAL CONSIDERATIONS

Recommended and approved methods under Chilean regulations for safe and final disposal	Does not classify as hazardous waste under Chilean regulations S.D (Supreme Decree) number 148. Contaminated absorbents and surplus products must be buried in accordance with local regulations. Do not incinerate containers.
Container disposal	Does not classify as hazardous under Chilean regulations S.D 148/2004. Wash the container with water and recycle. Do not reuse the container for water or food.

13. 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 classified	Not classified	Not classified
Environmental hazards	Not present	Not present	Not present

14. REGULATORY INFORMATION

National Regulations	<ul style="list-style-type: none">- NCh 2245.Of 2015 INN-Chemical Substances - Safety Data Sheets.- NCh 382. Of2017 INN - Hazardous Substances General information.- NCh 1411/4, Of2000 INN-Risk Prevention: Safety Signs for Hazard Identification of material.- NCh. 2190, Of2003 INN- Transport of Hazardous Substances and Risk identification.- Exempt Resolution N°408/2016. MINSAL. (Health Ministry of Chile) – List of Hazardous Substances and Labels for Risk Identification- SD (Supreme Decree) N° 18/1982 Certification of Personal Protective Equipment Against Occupational Hazards.- SD N° 594/2000 Regulation on Basic Environmental and Sanitary Conditions in workplaces.- DS (Supreme Decree) N° 298/1994: Ministry of Transport and Telecommunications Transport of Dangerous Goods on public roads- DS (Supreme Decree) N° 43/2015 MINSAL: Regulation on Storage of Hazardous Substances.- Law N° 20.089 Ministry of Agriculture, National Organic Product Certification system.
International Regulations	<ul style="list-style-type: none">- SGS, Safety Management System- RID, International Regulations Concerning the international Carriage of Dangerous Goods by Rail or ADR, Accord europeen relatif au transport international des marchandises dangereuses par route.- IMDG, International Maritime Dangerous Goods- IATA, International Air Transport Association- REACH, EC regulation, 1907/2007, Registration, Evaluation, Authorization and Restriction of Chemicals.- (EC) Regulation 1272/2008, On Classification, Labeling and Packaging of Substances and Mixtures.- GRE2020, Emergency Respond Guide 2020 of Canada, USA and Mexico.
Mark on label	Not applicable

15. ADDITIONAL INFORMATION

Update date	Material safety data sheet updated to the new Chilean standard 22415/2015 14-04-2024
Next review date	3 years from the date of update.
Information sources	MINSAL: https://www.minsal.cl/wp-content/uploads/2016/10/NCh-2245-2015.pdf REACH: Regulation for Registration, Evaluation, Authorization and Restriction of Chemicals. Chemicals Substances, 18 December 2006. ECHA: European Chemicals Agency HSDB: Hazardous Substances Data Bank