



SAFETY DATA SHEET IN COMPLIANCE TO NCh.2245:2015

1. PRODUCT IDENTIFIER AND PRODUCER

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| Trade name of the product | SeabioSOIL® |
| 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 (Chile) | +569 5811 2204 |
| E-mail address of supplier | ventas@seabiotech.cl |

2. HAZARD IDENTIFICATION

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|---|---|---|
| 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 word | Warning |  |
| Specific classification (Res. N°2.196/2000) | Not Applicable | |
| Specific Mark | Not Applicable | |

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| Hazard description (P-phrases) | <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 (H-phrases) | <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 1 |
|----------------------------|----------------------|
| 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

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| Inhalation | Move the person to fresh air. |
| Skin contact | Wash thoroughly with neutral soap and water. |
| On contact with eyes | Rinse thoroughly with plenty of 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 | Irritating effects on the skin. |
| Protection for first Aid responders | Treat symptomatically, wear nitrile gloves and safety goggles. In case of contact, rinse with plenty of water. |

5. FIRE-FIGHTING MEASURES

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| Suitable Extinguishing Media | Water spray, dry chemical, carbon dioxide (CO ₂), or chemical foam. |
| Unsuitable Extinguishing Media | No restrictions described. |
| Special Hazards | 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 Extinguishing Methods | Proceed according to the workplace emergency plan, otherwise: Keep personnel away from the fire and isolate the affected area. Do not take any action unless you are properly trained. Remove materials from the fire area and apply recommended measures only if it can be done without risk. |
| Precautions for Firefighters | Avoid contact with skin and eyes; its effect is diluted in water. Use appropriate protective equipment. |

6. ACCIDENTAL RELEASE MEASURES

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| 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 refers 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 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 disaster prevention measure | Do not dispose waste into water sources or drainage systems. |

7. HANDLING AND STORAGE

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| 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 they are opened, close carefully and store upright. |
| Operational and technical measures | 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. |

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| 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, as 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

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| Maximum available concentration | Not specified |
| Personal Protective Equipment | The use of chemical protective goggles, rubber or nitrile gloves, aprons 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 eye goggles. |
| Skin and body protection | Apron and waterproof footwear. |
| Engineering control to reduce exposition | Not applicable. |

9. PHYSICAL PROPERTIES

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| Physical state | Liquid |
| Appearance and odor | Amber liquid, with algae odor |
| Concentration | 100% Algae extract |
| pH (10% solution) | 12 |
| Boiling point | Approximately 100°C |
| Flash point | Not applicable |
| Auto-ignition temperature | Not applicable |
| Flammability limits | Not flammable |
| Vapor pressure | No information available |
| Vapor density | No information available |
| Density | 1070.00 g/l |
| Solubility | 99.9% soluble in water and other solvents |

10. STABILITY

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| 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 ₂) and Carbon Monoxide (CO). |
| Intended use and misuse | Compatible with most pesticides; dilute before performing compatibility test with other products. |

11. TOXICOLOGICAL INFORMATION

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| Acute toxicity (LD ₅₀ , LC ₅₀) | Classified as non-toxic according to GHS criteria. Contains Potassium Hydroxide (CAS 1310-58-3) Oral – LD ₅₀ (Rats): 333 mg/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. |

12. ECOLOGICAL INFORMATION

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| Ecotoxicity | Not classified as hazardous to the aquatic environment according to GHS. Contains Potassium Hydroxide (CAS 1310-58-3) LC ₅₀ : 80 mg/L (96 h), Mosquito fish. |
| Persistence / degradability | No information available. |
| Bioaccumulative potential | No information available. |
| Mobility in soil | No information available. |

13. DISPOSAL CONSIDERATIONS

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| 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. |

14. TRANSPORT CONSIDERATION

| | LAND (ADR/RID) | MARITIME (IMDG) | AIR (IATA) |
|-------------------------|----------------|-----------------|----------------|
| 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 |

15. REGULATORY INFORMATION

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| Category | Regulations / Standards |
| National Regulations (Chile) | NCh 2245. Of 2015: Safety Data Sheets NCh 382. Of 2017: Hazardous Substances General information- NCh 1411/4. Of 2000: Safety Signs for Hazard Identification. NCh 2190. Of 2003: Transport of Hazardous Substances and Risk identification. Exempt Resolution N°408/2016 (MINSAL): List of Hazardous Substances and Labels. |
| National Decrees & Laws (Chile) | SD N° 18/1982: Certification of PPE against occupational hazards. SD N° 594/2000: Basic Environmental and Sanitary Conditions in workplaces. SD N° 298/1994: Transport of Dangerous Goods on public roads. SD N° 43/2015 (MINSAL): Storage of Hazardous Substances. Law N° 20.089 (MinAgri): National Organic Product Certification system. |
| International Regulations | SGS: Safety Management System. RID/ADR: International Carriage of Dangerous Goods by Rail/Road. IMDG / IATA: Maritime and Air Transport Association regulations. REACH (EC 1907/2006): Registration, Evaluation, Authorization and Restriction of Chemicals. EC 1272/2008: Classification, Labeling, and Packaging (CLP). GRE 2020: Emergency Response Guide (CAN/USA/MEX). |
| Label Marking | Not applicable |

16. ADDITIONAL INFORMATION

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| 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 |