



RUBICON
ORGANIC
established 1997

Marinis Liquid Seaweed
(0-0-6)



Approved for organic agriculture • Made in Canada





RUBICON ORGANIC

established 1997

For pricing and ordering please contact

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Two convenient shipping locations:

FOB Victoria, BC
FOB Mont St Hilaire, QC

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Visit www.rubiconorganic.com for additional information



Overview

Marinis Seaweed Liquid Extract (0-0-6) is a concentrated extract of *ascophyllum nodosum* harvested from cold water. The extract contains a wide range of micronutrients, growth-promoting substances, and soil conditioners. Our extract is completely water soluble with no insoluble particle.

It is suitable for use in foliar and irrigation water applications. Foliar application allows uptake of nutrients across leaf surfaces and induces systemic acquired resistance response in plants (activation of general and specific plant defense mechanisms). This product is not a fertilizer, it's a biostimulant that improves crop health and productivity. Rubicon Marinis liquid seaweed is made with only one ingredient. It does not contain any pesticides. The liquefied product is stored in plastic totes out of direct sun. Please contact us if you require additional technical information.

Features

- Increases root growth and promotes shoot formation and branching
- Increases resistance to disease and pest organisms
- Increases mineral uptake from the soil
- Corrects micronutrient deficiencies
- Improves seed germination and transplantation of cutting
- Stimulates micro-organism activity
- Increases resistance to environmental stress (salinity, drought, frost)
- Increases and stabilizes chlorophyll level in plants

Global Profile

- Water soluble concentrated extract (solid: 20%, organic matter: 10%)
- Over 60 chelated minerals and elements
- Macronutrients: 0% N – 0% P₂O₅ – 6% K₂O
- Short-chain carbohydrates: B-glucans, oligo-alginates, oligo-fucoidans
- Growth biostimulants: cytokinins and betaines
- Chelating agents: mannitol and oligo-alginates

Packaging

Available in the following:

- 1000 L (polyethylene tanks)
- 200 L (polyethylene drum)
- 10 L and 20 L pail
- 4 L jugs

Dosage

The recommended dosage is typically 3 litres of Marinis Seaweed Liquid Extract (0-0-6) per hectare for field crops (diluted in an appropriate volume of water). The typical recommended dilution for domestic application is 2.5ml extract per litre of water.

Marinis Seaweed Liquid Extract (0-0-6) should be used as a part of a complete fertilization program that relates to the fertility of the soil. Please contact us for specific crop information.

Analysis

| | Percent |
|----------------------------------|---------|
| Total Nitrogen | 0 |
| Available phosphoric acid (P205) | 0 |
| Soluble potassium (K20) | 6 |
| Organic Matter | 20 |
| Solids | 20 |
| Calcium | .15 |
| Chlorides | .8 |
| Magnesium | .07 |
| Sodium | .8 |
| Sulfur | .15 |

| Analysis | PPM |
|-----------|-----|
| Boron | 25 |
| Iron | 30 |
| Manganese | 5 |
| Zinc | 5 |

MATERIAL SAFETY DATA SHEET

Section 01 – Product and company identification

| | |
|------------------------------|--|
| Description: | Aqueous extract of brown seaweed (<i>Ascophyllum nodosum</i>). |
| Commercial name: | Liquid Seaweed Extract 0-0-6 |
| CAS number: | Not applicable. |
| General use: | Fertilizer. |
| Company: | Rubicon inc 271 montée industrielle, Upton, QC J0H 2E0 |
| WHMIS classification: | Uncontrolled product. |

Section 02 – Composition / ingredient information

| | |
|-------------------------------|--|
| Composition: | Aqueous extract of <i>Ascophyllum nodosum</i> . |
| Hazardous ingredients: | No chemical and biological hazardous ingredient. |

Section 03 – Hazards identification

| | |
|----------------------------------|---------------------|
| Fire hazards: | No. |
| Potential health effects: | Data not available. |

Section 04 – First aid measures

| | |
|----------------------|---|
| Eyes contact: | Flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating eyelids with fingers. |
| Skin contact: | Wash skin with water. |
| Inhalation: | Non irritating under normal use conditions. Get victim into fresh air if necessary. |
| Ingestion: | Give water to the victim. |

Section 05 – Fire fighting hazards

| | |
|--|--|
| Flammability: | No. |
| Ignition conditions: | inflammable. |
| Extinguishing media: | Water spray, carbon dioxide, dry chemical powder, foam. |
| Special fire fighting procedure: | Beware of slippery floors if spillage occurs in wet areas during firefighting. |
| Unusual fire and explosion hazards: | No. |
| Flash point: | Not applicable. |
| Lower flammable limit: | Not applicable. |
| Upper flammable limit: | Not applicable. |
| Auto-ignition temperature: | Not applicable. |
| Sensitivity to mechanical impact: | No. |
| Sensitivity to static discharge: | No. |

Section 06 – Accidental release measures

| | |
|-----------------------------|--|
| Personal protection: | Chemical safety goggles, gloves and protective clothing. |
| Procedure: | Wash with copious amount of water. |

Section 07 – Handling and storage

| | |
|-----------------|---|
| Storage: | Keep the product in a cool place away from direct sunlight. |
|-----------------|---|

Section 08 – Exposure control / personal protection

| | |
|-------------------------------------|--|
| Respiratory protection: | Non irritating under normal use conditions. |
| Eyes and skin protection: | Chemical safety goggles, gloves and protective clothing. |
| Threshold limit value (TLV): | Data not available. |

Section 09 – Physical and chemical properties

| | |
|--|---|
| Physical state: | Liquid. |
| Appearance and odor: | Viscous dark-brown liquid with characteristic odour of seaweed. |
| Odor threshold: | Not available. |
| Specific gravity: | 1,1 g/ml. |
| Vapor pressure: | Not available. |
| Vapor density: | Not available. |
| Evaporation rate: | Not available. |
| Boiling point: | 100 °C |
| Melting point: | 0 °C |
| pH (concentrated solution): | 12-13 |
| pH (3 ml / 1000 ml water): | 8,5 |
| Water / oil distribution coefficient: | Not available. |
| Solubility: | Completely soluble in water. |

Section 10 – Stability and reactivity

| | |
|---------------------------------------|---|
| Stability: | Keep the product in a cool place away from direct sunlight. |
| Incompatibility: | Strong oxidizing agents, strong acids. |
| Hazardous combustion products: | Carbon monoxide, carbon dioxide and nitrogen oxides. |
| Hazardous polymerisation: | No. |

Section 11 – Toxicological information

Data not available.

Section 12 – Ecological information

| | |
|--------------------------|------|
| Biodegradability: | Yes. |
|--------------------------|------|

Section 13 – Disposal considerations

Observe all federal, state and local environmental regulations.

Section 14 – Transport information

Non-hazardous. Transport with compatible products.

Section 15 – Regulatory information

The product is not dangerous and required no special labels. This product has been classified according to the hazard criteria of the *Controlled products regulation* and this material safety data sheet contains all of the information required by the *Controlled products regulation*.

Section 16 – Other information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The manufacturer and seller shall not be held liable for any damage resulting from handling or from contact with the above product.

Revision date: February 28, 2014