



# SUBONEYO CHEMICALS & PHARMACEUTICALS P LIMITED

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## MATERIAL SAFETY DATA SHEET

### SECTION 1 – PRODUCT & COMPANY/INFORMATION

**Substance:** PLANT NUTRIENT BIOSTIMULANT LIQUID  
**Product Name:** **FRIVON®**  
**Product Use:** Plant Nutrient bio-stimulant in the agricultural industry.  
**Manufacturer:** SUBONEYO Chemicals & Pharmaceuticals P Limited  
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### SECTION 2 – HAZARD IDENTIFICATION

**Common Name:** Seaweed extract based Plant Nutrient bio-stimulant HSN 31059090

**Classification of the mixture :**

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

### SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

**Common Name:** Ascophyllum nodosum 22% Liquid ,Seaweed ext based Plant Nutrient bio-stimulant HSN 31059090  
**Ingredients /CAS No.:** Ascophyllum nodosum seaweeds ext.: 22-23% : (CAS # 84775-78-0)  
Lacto Bacteria : 0.1-1.0% : (CAS # 68333-16-4)  
Trade Secret 2 : 18-24% : (Non hazardous,Fermentation media)  
Octyl phenol ethoxylate : 0.5-1% : (CAS # 9002-93-1) ,  
Aqua : 40-60% : (CAS # 7332-18-5),

**Use:** Plant Nutrient bio-stimulant in the agricultural industry

### SECTION 4 – FIRST AID MEASURES AND PRECAUTIONS

**Eye contact:** Immediately flush with copious amounts of water for 15 minutes. If irritation persists, contact physician.

**Skin contact:** Wash thoroughly with soap and water.

**Inhalation:** Remove person to fresh air. If irritation persists, contact physician.

**Ingestion:** Give glass of water if the victim is conscious. Never give water to an unconscious person. DO NOT INDUCE VOMITING unless told to do so by the Poison Control Center or physician. If vomiting occurs naturally, rinse mouth and repeat administration of water. Contact physician or Poison Control Center immediately

**Advice to physician:**

There is no specific antidote. Treat symptomatically and supportively as and when required.

### SECTION 5 - FIRE-FIGHTING MEASURES

**General hazards:** Active ingredient does not burn or support combustion.

**Fire and explosion hazard:**

**Flash point:** None – as it is water based. This material is not flammable. Non explosive.

**Extinguishing agents:**

Extinguish fires with water spray ,carbon dioxide, dry powder, or alcohol-resistant foam.

**Flammability classification (29 CFR 1910.1200):** Active ingredient is non-flammable.

**Fire fighting:**

Remove spectators from surrounding area. Remove container from fire area if possible. Contain fire control agents for later disposal. Use a recommended extinguishing agent for the type of surrounding fire.

## SECTION 6 - ACCIDENTAL RELEASE MEASURES (SPILLAGE)

**General:** Product at high concentrations may be harmful to plants.

**Personal precautions:**

Wear appropriate protective clothing. Avoid contact with skin and eyes. Do not breathe in spray or fumes. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate For personal protection see Sec. 8.

**Environmental precautions:**

Do not allow entering drains or watercourses. Spillage or uncontrolled discharges into water courses (or public waters) to be reported immediately to the Department of Water/Environmental Affairs.

**Land spill:** Isolate spill area. When necessary confine spill with dike area. Collect liquid portion if clean and re-use it. Absorb the residual product with an absorbent such as clay, sand, or soil. Shovel, vacuum or sweep up the spilled material including absorbent into a plastic container and dispose in accordance with applicable local regulations. Avoid contamination of water bodies (streams, lakes, etc.) and sewers during cleanup and disposal. Use protective clothing and gloves if skin or eye contact is possible. Wear NIOSH approved respirator and eye protection if aerosol is generated.

**Spillage into water:** Where possible remove containers with product from the water. Advise local water authorities of spillage.

**Waste hazard classification:** None of the active ingredients are listed as hazardous waste in RCRA (40 CFR 261).

## SECTION 7 - HANDLING AND STORAGE REQUIREMENTS

**Precautions for safe handling** -Not for human or animal consumption

**Precautions for Safe Handling and Storing:** Keep out of the reach of children.

Do not store with food, feed, or other materials for human or animal consumption. Do not store in direct sunlight.

Store away from strong alkali. Keep container tightly closed. Store at temperatures between freezing and 43°C (110°F).

**Other Precautions:** Put on appropriate personal protective equipment (see Section 8). Avoid contact with eyes and skin.

Handle product with caution. Remove clothing immediately if the product gets inside. Then wash skin thoroughly using a non-abrasive soap and put on clean clothing. Operators should change and wash clothing after use. Operators should wash hands before eating, drinking, chewing gum, smoking or using the toilet. Wash hands after handling. Do not eat, drink or smoke while handling the product (see Section 8 for details).

## SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

**Engineering Controls:** Not required under normal conditions. If eye or skin contact can occur, washing facility for eyes and skin should be available nearby.

**Work Clothing:** Not required under normal conditions. Use protective clothing to prevent repeated or prolonged skin contact.

**Eye & Face Protection:** Not required under normal conditions. Splash guard goggles recommended if splashing or aerosol conditions exist.

**Respiratory:** General ventilation is sufficient for intended use. Use NIOSH/MSHA-approved respirator if aerosol conditions exist and whenever workplace conditions warrant respirator use.

**Gloves:** Not required under normal conditions. Recommended for repeated or prolonged skin contact and for workers with dermatitis.

**Personal Hygiene:** Avoid getting the product on or in you. Wash hands after handling. Do not eat, drink or smoke while handling the product. A washing facility or water for eye and skin cleaning purposes should be present. Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Wash contaminated clothing before reusing.

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	:	Brown to Dark Brown liquid
<b>Specific Gravity/Density</b>	:	1.23 Kg/L min
<b>Solubility in water</b>	:	Soluble.
<b>pH as is</b>	:	3 to 4
<b>Kinematic Viscosity at 40 deg C</b>	:	100 - 350 cps
<b>Thixotropy</b>	:	Product does not have thixotropic nature
<b>Flash point</b>	:	None. Water based. Does not flash.
<b>Auto Ignition point</b>	:	None. Water based. Does not flash.
<b>Boiling point</b>	:	>100 Deg Cel
<b>Oxidising Property</b>	:	None
<b>Explosiveness</b>	:	None
<b>Flammability</b>	:	None

## SECTION 10 - STABILITY AND REACTIVITY

### Stability:

Stable under recommended storage & handling conditions under normal temperatures and storage conditions.

### Storage stability:

Stable under normal warehouse conditions. Store at temperatures below 40 Deg Cel away from direct sunlight.

### Incompatibility:

Incompatible with strong alkali Incompatible with strong oxidizing agents. Avoid contact with incompatible agents.

**Reactivity** : May be corrosive to metals

**Hazardous decomposition products:** No hazardous decomposition products are produced under normal conditions of storage and use.

## SECTION 11 - TOXICOLOGICAL INFORMATION

Data presented below are based on the active ingredients:

### Acute Oral LD<sub>50</sub>:

Ascophyllum nodosum seaweeds ext.(84775-78-0) > 5000 mg/Kg body weight in rats

Potassium Hydroxide (1310-58-3) :- 273 mg/kg body weight in rats

Trade secret compound (7664-38-2) : 1530 mg/kg body weight in rats.

Octyl phenol ethoxylate : 1800 mg/kg body weight in rats.

**Eye Effect:** Draize test not available. **Acute Dermal LD<sub>50</sub>:** No data available. **Skin Effect:** No data available.

**Inhalation LC<sub>50</sub>:** No data available

**Skin Sensitization:** No data available.

**Carcinogenicity:** No data available **Mutagenecity:** Has not been identified.

**Acute Toxicity:** No data are available.

**Chronic Toxicity:** No data are available

Data below are based on the inert ingredient(s): Water: Non-toxic

## SECTION 12 - ECOLOGICAL INFORMATION/ECOTOXICOLOGY:

Ecotoxicological Data:

**General:** Elements present are essential for healthy growth of plants and are often applied to agricultural and horticultural crops, but they can be harmful at high concentrations.

At recommended rates product is not phytotoxic or harmful to the environment.

Ecotoxicity to Terrestrial Organisms

**Plant toxicity:** At recommended rates product is not phytotoxic.

**Acute Toxicity to fish LC 50** - No data available

**Acute Toxicity to earthworm LC50** - No data available

**Acute Contact Toxicity LD50to bees** - No data available

**Avian Acute Oral Toxicity** - No data available

**Environmental Fate:** - The product is regarded as biodegradable.

## SECTION 13 - DISPOSAL CONSIDERATION :

**Disposal Method:** Consult local and federal guidelines for disposal regulations.

**RCRA (40 CFR 261):** None of the active ingredients are listed as hazardous waste.

**Empty Container:** Completely empty the container into the application equipment. Rinse with water and empty the rinsate into the application equipment. Then dispose of the container in a sanitary landfill or by incineration if allowed by local authorities.

Prevent contamination of food, feedstuffs, drinking water and eating utensils. Comply with local legislation applying to waste disposal.

## SECTION 14 - TRANSPORT INFORMATION

**UN NUMBER:** NOT REGULATED .THE PRODUCT MERITOR IS NOT COVERED BY INTERNATIONAL REGULATION ON TRANSPORT OF DANGEROUS GOODS .

### Road Transport ADR/IRD:

Class: NOT REGULATED

Packing group: NOT REGULATED

Shipping name: NOT REGULATED

### Maritime Transport IMDG/IMO:

Class: NOT REGULATED

Packing group: NOT REGULATED

Shipping name: NOT REGULATED

## **SECTION 15 - REGULATORY INFORMATION**

**EC Classification** –This product is not classified according to the EU regulations.

## **SECTION 16 - OTHER INFORMATION**

**Packaging and Labelling:** Packed in 250, 500, 1000 ml plastic containers.

**Disclaimer:**

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