

MATERIAL SAFETY DATA SHEET (MSDS)

SAGARIKA (SAP LIQUID)

1. IDENTIFICATION OF PRODUCT AND COMPANY

Trade Name: Sagarika

Chemical name: Concentrated extract of seaweed *Kappaphycus alvarezii*

Manufactured by: AquAgri Processing Private Limited
Plot F1 & B5, SIPCOT Industrial complex
Manamadurai- 630606, Sivagangai Dt, TamilNadu, INDIA

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Website: www.aquagri.in

2. COMPOSITION AND INFORMATION ON INGREDIENTS

Raw material: Extract of fresh form of seaweed *Kappaphycus alvarezii*. 100%

Use: Plant growth regulators

AMINO ACIDS

Sagarika concentrate has over 16 amino acids in it including glycine, alanine, aspergine, methionine, tyrocine etc.

3. HAZAARD IDENTIFICATION

Possible exposure: Ingestion, inhalation and skin contact

Eye contact: Non-irritant

Skin contact: Non-irritant

Indigestion: Non-toxic

Inhalation: Non-toxic

4. FIRST AID MEASURES AND PRECAUTIONS

Eye contact: Immediately rinse with water for 5min

Skin contact: Wash skin with soap and water

Indigestion: Rinse mouth with water and drink large quantity of water

Inhalation: Remove product or move person to fresh air

5. FIRE HAZARDS

Flash point: None to boiling

Flammable limits: Not applicable

Extinguishing media: Use water spray, dry chemical or carbon dioxide

Fire fighting procedure: Remove container from fire area

Combustion products: Vapors are non-toxic and non-irritant

6. ACCIDENTAL RELEASE MEASURES

Spillage/Leakage: Stop spillage/leakage. Sweep up waste and place in container for disposal.

Personal precautions: No personal precaution required

Environmental precautions: It is an organic (seaweed) product and easily decomposable

Method for cleaning up: Simple disposal

7. HANDLING AND STORAGE

Handling: No special apparatus is required; it can be handled without gloves also. Avoid eye contact and prolonged skin contact. Respiratory protection is not normally required. Wash hands thoroughly after handling the product

Storage: It can be stored in ambient temperature. Store it in the original labeled container in a cool place and away from direct sunlight. Keep separate from food and feed products and out of reach of children and animals

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Personal protective equipments: Chemical goggles or shielded safety glasses and rubber or neoprene gloves are not required, but its use is recommended

Respiratory: Protection normally not required

Occupational Exposure Limits: Non-toxic

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Dark brown powder

Form: Liquid

Odour: Typical seaweed smell (marine odour)

pH (Value): 8-9 (1% solution)

Boiling Point: NA

Melting Point: NA

Flash Point: NA

Flammable Limits: NA

Auto Ignition Temperature: NA

Explosive Properties: NA

Oxidising Properties: NA

Vapour Pressure (mm Hg): NA

Bulk Density (gm/gm): >1.1 (gm/cc)

Solubility (Water): Water soluble

Solubility (Other): Poorly miscible in organic solvents

Partition Coefficient: NA

10. STABILITY AND REACTIVITY

Stability: Stable for at least 2 years under normal storage conditions

Conditions to avoid: Storage in direct sunlight

Incompatibility: Strong bases and oxidizing agents

Hazardous decomposition: No products known

Hazardous polymerization: None known

11. TOXICOLOGY INFORMATION

Acute toxicity: This product is relatively non-toxic in nature

Inhalation: This product is not expected to be toxic by inhalation

Chronic effect: None known

12. ECOLOGICAL INFORMATION

Environmental Hazards: It is an organic product and easily decomposable

Persistence and Degradation: Organic product and easily decomposable by microorganism

Toxicity: Non-toxic in nature

Effect on Effluent Treatment: NA

13. DISPOSAL CONSIDERATIONS

No specific disposable method is required, simple cleaning is enough

14. TRANSPORT INFORMATION: Non-hazardous for air, sea and road freight

Storage and transport: No special requirements of storage required. This material has no UN Classification. Not a Scheduled Poison. Containers should be kept closed in order to minimize contamination.

15. REGULATORY INFORMATION

Classification and labeling Danger symbol: Nil

Danger Label: Nil

Safety phrases: Nil

Date of Issue: 07 May 2016

16. OTHER INFORMATION

Sagarika Concentrate is extract from seaweed which is farmed in Indian waters is concentrated to obtain Sagarika Concentrate. This product is used as plant nutrients on various crops to increase the yield.