

MATERIAL SAFETY DATA SHEET (MSDS)

AQUASAP POWDER

1. IDENTIFICATION OF PRODUCT AND COMPANY

Trade Name: **AQUASAP Powder**

Chemical name: **Powder of *Kappaphycus alvarezii* seaweed extract**

Manufactured: **Aquagri Processing Private Limited**

Plot F1 & B5, SIPCOT Industrial complex

Manamadurai- 630606, Sivaganga District, Tamil Nadu, INDIA

Phone No. 04574 258252 / 9443123657 / 9810135951

Website: www.aquagri.in

2. COMPOSITION AND INFORMATION ON INGREDIENTS

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

Preservatives: Nil

Use: **Plant growth regulators**

INGREDIENTS OF AQUASAP POWDER

PLANT GROWTH HORMONES

Cytokinin : 0.060 – 0.090%

Auxin : 0.090 – 0.120%

Gibberellins : 0.170 – 0.220%

PRIMARY & SECONDRY NUTRIENTS

Nitrogen (N) = 0.20 to 0.30%

Phosphorous (P) = 0.05 to 0.07%

Potassium (K) = 35.5 to 37.5%

Magnesium (Mg) = 0.5 to 0.8%

Sulphur (S) = 0.10 to 0.20%

AMINO ACIDS

AQUASAP Powder 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: **Stop spillage. Sweep up waste and place in container for disposal.**

Uncontaminated spilled material may be reused

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: Powder

Odour: Typical seaweed smell (marine odour)

pH (Value): 7-8 (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): 1.5 (gm/cc)

Solubility (Water): Water soluble

Solubility (Other): Poorly soluble 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: **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 minimise contamination.**

15. REGULATORY INFORMATION

Classification and labeling Danger symbol: **Nil**
Danger Label: **Nil**
Safety phrases: **Nil**
Date of Issue: **1 October 2013**

16. OTHER INFORMATION

SAP (juice) extracted from seaweed which is farmed in Indian waters is dried to obtain AQUASAP powder. This powder is used as plant nutrients on various crops to increase the yield.