

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION

1.1 Product Identifier

Substance name:	<i>Kappaphycus alvarezii</i> , extract
Product name:	AGROGAIN®
Product Code:	LBS6
EC number	955-903-0
EC name:	Aqueous extract from Solieriaceae family seaplants <i>Kappaphycus alvarezii</i> and/or <i>Eucheuma cottonii</i> and/or <i>Kappaphycus striatus</i> and/or <i>Eucheuma denticulatum</i>
REACH registration number:	01-2120924581-57-0000

1.2 Relevant identified uses of the substance and uses advised against

Relevant use(s):	Liquid fertilizer containing plant nutrients for use in agriculture and horticulture.
Uses advised against:	There is no evidence of uses advised against.

1.3 Details of the supplier of the safety data sheet and importer

Identification of the company (Manufacturer):	Sea6 Energy Pvt. Ltd. 1 st floor, C-CAMP, NCBS-TIFR, GKVK Post, Bangalore-560 065, India
E-mail address of the competent person responsible for the Safety Data Sheet: sawan@sea6energy.com	
Identification of the company (Importer):	Summit Agro USA, LLC 240 Leigh Farm Rd, Ste 415 Durham, North Carolina 27707 Web: summitagro-usa.com

1.4 Emergency telephone number

Emergency telephone number (office hours): 984-260-0407

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance

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

2.2 Label elements

Classification of the chemical in accordance with paragraph (d) of §1910.1200

The product is not classified as hazardous in accordance with The Hazard Communication Standard (HCS) (29 CFR 1910.1200).

Signal word, hazard statement(s), symbol(s) and precautionary statement(s) in accordance with paragraph (f) of §1910.1200..

Other hazards.

SECTION 3: COMPOSITION/ INFORMATION ON INGREDIENTS

Description:

Name of the component	<i>Kappaphycus alvarezii</i> , extract
Concentration	20 % w/w soluble extract of red seaweed, <i>Kappaphycus alvarezii</i> .

SEA6 ENERGY PRIVATE LIMITED

Corporate identity number: U40102KA2010PTC081073 2010-2011

Registered Office and Labs: 1st Floor, Centre for Cellular and Molecular Platforms (C-CAMP), NCBS-TIFR, Bellary road, Bangalore – 560065

Website: <https://www.sea6energy.com>; Email: contact@sea6energy.com Phone: +91-80-67185225/23623400

Structural formula	Not applicable; <i>Kappaphycus alvarezii</i> ext. is an UVCB substance
CAS name	<i>Kappaphycus alvarezii</i> ext.
CAS number	1220882-73-4
IUPAC name	Not available
EC number	955-903-0
Index number	Not available

Other information:

This product does not pose a danger to health in accordance with paragraph (d) of §1910.1200 or the ingredients are below their cut-off/concentration limits and not present a health risk.

SECTION 4: FIRST AID MEASURES

4.1 Description of the first aid measures

Under normal circumstances, the product has no harmful effect. If irritation occurs, seek medical advice.

<i>Inhalation</i>	Not harmful
<i>Eye contact</i>	Rinse with water/ordinary eye wash.
<i>Skin contact</i>	Rinse with water.
<i>Ingestion</i>	Avoid ingestion. If swallowed, drink plenty of water.

4.2 Most important symptoms and effects (acute and delayed)

- <i>Acute:</i>	Inhalation: Not harmful Skin: Non-irritant. Eyes: May cause redness and discomfort. Ingestion: Not harmful. May cause nausea.
- <i>Delayed:</i>	Delayed symptoms and effects are not known

4.3 Indication of any immediate medical attention and special treatment needed

- <i>Medical monitoring:</i>	As advised by the doctor
- <i>Antidotes, if known:</i>	Unknown

SECTION 5: FIREFIGHTING MEASURES

This substance is non-flammable and non-explosive.

5.1 Extinguishing media

- <i>Suitable extinguishing media</i>	Water spray, alcohol resistant foam, dry carbon dioxide etc. can be used.
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5.2 Special hazards arising from the substance

<i>Hazardous combustion products</i>	Thermal decomposition or combustion may generate toxic and hazardous fumes.
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5.3 Advice for firefighters

<i>Technical actions for protection</i>	Don't try to extinguish the fire without a suitable firefighting equipment.
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- <i>Special protective equipment for firefighters</i>	Wear self-contained breathing apparatus for firefighting if necessary.
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SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment, and emergency procedures

Evacuate personnel to safe areas. Ventilate the areas and remove all sources of ignition.
Wear appropriate protective equipment to minimize exposure to the product.

6.2 Environmental precautions

It is an extract of seaweed and is completely biodegradable. No special precautions required.

6.3 Methods and material for containment and cleaning up

Spills may be cleaned by mopping or washing with enough water.

6.4 Reference to other sections

See also section 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

- <i>Recommendations for handling:</i>	Handle in a well-ventilated place. Wear suitable personal Protection Equipment. Keep the substance away from drains, surface or ground waters. If irritation occurs get medical advice/attention. Keep out of the reach of children. Avoid breathing the mist. Wash hands after use.
- <i>Recommendations for personal hygiene:</i>	Keep away from food, drink and animal feedstuffs. Do not eat, drink and smoke in the working areas. Wash hands after handling the substance. Remove contaminated clothing and protective equipment after use.

7.2 Condition for safe storage including any incompatibilities

- <i>Recommendations for storage:</i>	Keep in original container, tightly closed. Store in a cool dry place, away from direct heat and sunlight. Protect from frost. Store above 5 °C.
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7.3 Specific end use(s)

Recommendations for specific end use as an agriculture input: avoid contact with eyes, skin and inhalation of the mist/spray.

SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

8.1 Control parameters

The product does NOT contain substances with Professional Exposure Environmental Limit Values. The product does NOT contain substances with Biological Limit Values.

8.2 Exposure Controls

Eye/Face protection:	Use of suitable eye gear is recommended
Hands protection	Use of hand gloves is recommended
Skin protection:	Use of apron is recommended

Respiratory protection:	Use of respirator/ mask is recommended
Environmental exposure controls:	Prevent the product from reaching surface water or groundwater.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	Liquid
Colour:	Brown
Odour:	Marine smell
Solubility (in water)	Completely soluble at ambient temperature
pH (0.1% solution in tap water):	>5
Melting/ freezing point:	Not determined
Vapor Pressure:	Not determined
Evaporation Rate:	Not determined
Air Reactive	Not determined
Specific gravity	1.12-1.15
Flash point:	Not determined
Initial boiling point and boiling range	Not determined
Self ignition temperature	Not determined
Flammability:	Not determined
Upper/lower flammability or explosive limits:	Not determined
Decomposition Temperature:	Not determined
Partition coefficient:	Not determined

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

The product does not present hazards by their reactivity

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

Excessive heat / cold

10.5 Incompatible materials

Strong oxidizing agents, acids and bases.

10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: INFORMATION ON TOXICOLOGICAL EFFECTS

Acute toxicity	
- <i>Oral</i>	LD ₅₀ Oral: Rat > 2000 mg/kg; Pigeon: > 2000 mg/kg
- <i>Dermal</i>	LD ₅₀ dermal: Rabbit > 2000 mg/kg
- <i>Inhalation</i>	LC ₅₀ Inhalation: Rat > 4.9 mg/L
Skin corrosion/ irritation	Rabbit & Guinea pig: Non-irritant
Serious eye damage/ irritation	Non-irritant, may cause redness and discomfort
Respiratory or skin sensitization	Non-sensitizer
Germ cell mutagenicity	Data not available
Carcinogenicity	Data not available
Reproductive toxicity	Data not available
Repeated dose toxicity	Data not available

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Fish: <i>Cyprinus carpio</i>	LC ₅₀ : > 244 mg/L at 96h; NOEC 196 mg/L at 96 h
Honey bees:	LD ₅₀ (Oral and contact): > 100 µg/bee at 48 h
Earthworm	LC ₅₀ : > 1000 mg/kg after 14 days exposure

12.2 Persistence and degradability

Kappaphycus alvarezii, extract is readily biodegradable.

12.3 Bioaccumulative potential

This information is not available.

12.4 Mobility in soil

This information is not available.

12.5 Results of PBT / vPvB assessment

Based on the assessment described in the subsections above the submission substance is not a PBT/ vPvB substance.

12.6 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: DISPOSAL CONSIDERATION

13.1 Waste treatment methods

- Offer surplus and non-recyclable solutions to a licensed disposal company.
- Dispose the containers as local regulations allow.
- Person carrying out disposal should wear gloves.
- Do not contaminate surface waters or drain and sewers with the product or used containers.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number

ADR/RID: -

IMDG: -

IATA: -

14.2 UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

14.3 Transport hazard class(es)

ADR/RID: -

IMDG: -

IATA: -

14.4 Packaging group

ADR/RID: -

IMDG: -

IATA: -

14.5 Environmental hazards

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

14.6 Special precautions for user

Further information

Not classified as dangerous in the meaning of transport regulations.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

The safety datasheet complies with the standard regulatory guidelines.

15.2 Chemical safety assessment

For this product, a chemical safety assessment was not carried out.

SECTION 16: OTHER INFORMATION

This product is a liquid fertilizer prepared from seaweed. It is used in agriculture to increase crop productivity. It is recommended that the product only be employed for the purposes advised.

Key literature references and sources for data:

The Hazard Communication Standard (HCS) (29 CFR 1910.1200)

United Nations Globally Harmonized System of Classification and Labelling of Chemicals

(GHS) <https://www.osha.gov>

<https://www.epa.gov/>

<http://echa.europa.eu/>

The information given in this Safety Data Sheet has been drafted in accordance with The Hazard Communication Standard (HCS) (29 CFR 1910.1200) and United Nations Globally Harmonized System of Classification and Labelling of Chemicals (GHS). Employers must ensure that the SDSs are readily accessible to employees for all hazardous chemicals in their workplace.

The information in this Safety Data Sheet on the Preparation is based on current knowledge and national laws, as far as the working conditions of the users is beyond our knowledge and control. The product must not be used for purposes other than those that are specified without first having written instructions on how to handle. It is always the responsibility of the user to take the appropriate measures in order to comply with the requirements established by current legislation. The information contained in this Safety Sheet only states a description of the safety requirements for the preparation, and it must not be considered as a guarantee of its properties.