

MATERIAL SAFETY DATA SHEET:

ALGAE SEAWEED POWDERS

I. IDENTIFICATION OF THE SUBSTANCE AND THE COMPANY / UNDERTAKING

PRODUCT NAME: Oceanfeed Seaweed Powder/Meal

ADDRESS: OCEAN HARVEST TECHNOLOGY
UNIT 5 N17 BUSINESS PARK
MILLTOWN
TUAM
COUNTY GALWAY
IRELAND

TEL: +353 93 51807

2. COMPOSITION / INFORMATION ON MAJOR INGREDIENTS

PRODUCT DESCRIPTION: DRIED SEAWEED MEAL/GRANULES /PELLETS

HAZARDOUS INGREDIENTS: NONE

3. HAZARDOUS IDENTIFICATION: NOT APPLICABLE This substance is not classified as dangerous according to Directive 67/548/EEC.

4. FIRST AID MEASURES

Inhalation: Non hazardous

Skin contact: Non hazardous

Eye contact: Non hazardous

Ingestion: Discomfort from swallowing large amounts, may be alleviated by vomiting or drinking large volumes of water or milk. Swallowing small amounts usually require no treatment other than drinking generous volumes of water.

Further medical treatment: Not applicable

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5. FIRE FIGHTING MEASURES

Non-flammable

6. ACCIDENTAL RELEASE MEASURES

Flush away with copious amounts of water

7. HANDLING AND STORAGE

7.1 HANDLING: No special requirements

7.2 STORAGE: Cool, dry place in original packaging

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure limits: Not applicable - No hazardous ingredients

9 PHYSICAL AND CHEMICAL PROPERTIES

Form	: Powder
Colour	: Brown-Green
Odour	: Typical Seaweed
Bulk density	: 400-600 g/litre
Toxicity	: Non toxic for humans / animals
Flash point	: Not applicable
Explosive properties	: Not applicable
Oxidising properties	: Not applicable
Solubility (water)	: Not applicable
Minimum ignition temperature	: Not applicable
Decomposition temperature	: Not known

10. STABILITY AND REACTIVITY

Hazardous reactions: None

Hazardous decomposition products: Stable at 100°C - decomposition product not known.

11. TOXICOLOGICAL INFORMATION

The following information is based on a consideration of the properties of the components of this preparation:

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Inhalation:	Nonhazardous to humans and animals
Skin contact:	Nonhazardous to humans and animals
Eye contact:	Nonhazardous to humans and animals
Long term exposure:	Nonhazardous to humans and animals

12. ECOLOGICAL INFORMATION

Environmental fate and distribution

Persistence and degradation: 100% Biodegradable

Toxicity: Non toxic, Non hazardous

Effect on effluent treatment: Neutral

13. DISPOSAL CONSIDERATIONS

Non toxic, wash away with water

14. TRANSPORT INFORMATION

Non hazardous

CAS number : 8013-01-2

EC Number: 283-633-7

15. REGULATORY INFORMATION

Ocean Feed is a Feed Material consisting of homogenous mixes of seaweed meal obtained from species of macro —algae without additives or other feed materials **The commodity code commonly used is the HS Code 1212.29.00

16. OTHER INFORMATION "CHIP" INFORMATION

Seaweed Powder does not contain in its preparation any raw materials or ingredients in sufficient quantities to require the product to be classified under the Chemical (Hazardous information and Packaging) Regulations 1993

Date: 21/11/2016

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TECHNICAL SPECIFICATION DATA SHEET

PRODUCT NAME

OceanFeed™ Swine

REGULATORY INFORMATION

OceanFeed™ is a Feed Material consisting of homogenous mixes of seaweed meal obtained from species of macroalgae without additives or other feed materials.

MANUFACTURING FACILITIES

Kim Huy Ind Park, Thu Dau Mot Town, Ho Chi Minh, (Vietnam)

Milltown Business Park, Milltown, Co. Galway (Ireland)

PRODUCT DESCRIPTION

A free flowing brown/green meal or pellet produced by drying and blending a selected mix of seaweeds that have been scientifically selected and sustainably harvested.

PHYSICAL PROPERTIES / CHARACTERISTICS

Colour / Odour: Free flowing Green/Brown Colored meal, and non-cohesive. Odour is of a typical seaweed meal

Bulk Density: 400-600g/l (400-600 kg/m³)

Ingredient: Clean, Dried and Milled Seaweeds only

Form: Available in Meal, Pellet or Crumble form

Particle Size: 6-60 mesh

Packaging: Packed in animal feed grade PP bulk bags or in 20kg and 25kg bags

Storage: Store in a clean dry cool area

Shelf life: + 2 years from blending date

Preservation: Without preservatives

Guarantees: No Additives/Processing Aids

CERTIFICATION

GMP+ Nr: GMP010079 (Vietnam) / GMP+ Nr: GMP016925 (Ireland)/FEMAS Nr: 55623 (Ireland)

Proximate Analysis	Parameter Guidelines
Moisture Content	8 - 17%
Crude Protein	5 - 12%
Crude Fats/ Lipids	0.05 - 2%
Crude Ash	27 - 45%
Crude Fibre	4- 9%

Microbiological Analysis	Parameter Guidelines
Salmonella	Absent in 25grams

Heavy Metals Monitoring	Permitted Levels
Arsenic	40mg/kg
Lead	10mg/kg
Mercury	0.1mg/kg
Cadmium	1mg/kg

Dioxin/PCB's Monitoring	Rejection Level
Sum of	0,75 ng_WHOPCDD/FTEQ/kg
Non-dioxin-like PCBs	1.25 ng_WHOPCDD/F- PCBTEQ/kg

Naturally Occurring Prohibited Substances Monitoring	Rejection Levels
Theobromine , caffeine, theophylline , Caffeine - (cacao) Theobromine - (cacao) Theophylline - (tea) Morphine - (opium poppy, Papaver somniferum) Hyoscyne - (nightshade, Datura) Hordenine - (germinating barley) Atropine - (nightshade - Atropa belladonna)	Zero tolerance

REGULATION CONTROLS (EC) No 882/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 29 April 2004 on official controls performed to ensure the certification of compliance with feed and food law, animal and regulated by our HACCP system used according to our FEMAS/GMP+ program rules and regulations. Also under the COMMISSION REGULATION (EU) No 1017/2017 on the Catalogue of Feed Materials (Catalogue No 7.1.6)