

SAFETY DATA SHEET

Section 1 - Product & Company Identification

1.1 Product Identifier:

Product Identifier: Hydrolysed fish protein
Trade Name: Sea2Soil
Synonym: Fish Protein Hydrolysate; Salmon Hydrolysate

1.2 Relevant Identified Uses:

Intended Use: Soil Improver

1.3 Supplier:

Company Name: Pelagia (Bressay) Ltd, Heogan, Bressay, Shetland ZE2 9EW, UK
Telephone No.: +44 1595 820 223
Email: info.bressay@pelagia.com

1.4 Emergency Contact:

Call NHS 24 (Scotland) on 111

Section 2 - Hazards Identification

2.1 Classification of the Substance

Acute Toxicity (Oral) No data	H302 – Harmful if swallowed.
Acute Toxicity (Inhalation) 3	H335 – May cause respiratory irritation. P304+P340 – If inhaled, remove victim to fresh air and keep at rest in a position comfortable for breathing.
Skin Corrosion/Irritation 3	H316 – Causes mild skin irritation. P302+P352 – If on skin, wash with plenty of soap and water. P333+P313 – If skin irritation or rash occurs get medical advice/attention.
Eye Damage/Irritation 2A	H320 – Contact can cause mild irritation of eyes. P305+P351+P338 – If in eye, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Respiratory Sensitization 1B	H334 – May cause allergy or asthma symptoms or breathing difficulty if inhaled. P342+P311 – If experiencing respiratory symptoms, call a poison centre or doctor/physician.
Skin Sensitization No Data	Prolonged skin contact could result in dermatitis in sensitive individuals. P303+P361+P353 – If on skin, remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

SAFETY DATA SHEET

2.2 Label Elements

Pictograms



Signal Words

Warning

Section 3 - Composition / Information on Ingredients

Name	EC No.	CAS No.	Content
Salmon emulsion	N/A	N/A	95-97%
Stabilising acid (formic acid)	200-579-1	64-18-6	3-5%
Glyceroltriheptanoate (GTH)	N/A	620-67-7	0.025%

Section 4 - First Aid Measures

4.1 Description of First Aid Measures:

Get medical attention if any discomfort continues.

4.2 Most important symptoms and effects, both acute and chronic:

Acute:	Skin, and mucous membrane irritation.
Chronic:	Prolonged contact may cause allergic skin reaction in sensitive individuals.
Inhalation:	Move to fresh air immediately. If breathing stops, provide artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
Ingestion:	Do not induce vomiting. If vomiting occurs, place on left side and keep head low. Seek medical help.
Skin Contact:	Wash off with soap/detergent and plenty of wash until all evidence of product is removed. Remove contaminated clothing. Get medical attention if irritation develops or persists.
Eye Contact:	Flush eyes immediately with water for 15 minutes with the eyelid held wide open. Remove contact lenses if present and easy to do so and continue flushing. Get medical advice if irritation persists.

SAFETY DATA SHEET

Section 5 - Fire Fighting Measures

5.1 Extinguishing Media:

Class B fire extinguishers. CO₂, Water*, Foam.

5.2 Special Hazards arising from the substance or mixture:

Not known.

5.3 Advice for Firefighters:

Treat as Class A. Isolate area from personnel. Keep personnel upwind of fire.

Use self-contained breathing apparatus to fight large fires.

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment, and emergency procedures

Avoid contact with skin and eyes. Do not breathe in spray or fumes.

6.2 Environmental Precautions

Contain product and do not allow to enter drains or water courses. Report spillage and uncontrolled discharges to water courses (or public waters) immediately to local authorities and environmental agencies.

6.3 Methods and materials for containment and cleaning up

Wear necessary PPE observing precautions in Section 8, Personal Protection. Stop the leak or release if you can do so without risk. Keep out unprotected personnel and animals.

For small liquid spills, soak up with damp earth, sand, or other non-combustible absorbent material. Place the material in suitable labelled containers for disposal.

For larger spills, contain the liquid by damming it with absorptive materials and pump into labelled containers for recovery or disposal. Soak up remainder with absorbent material and place in suitable labelled containers for disposal.

Spills may produce slippery surfaces. Employ appropriate sanitation procedures to reduce risk.

Treat or dispose of waste material in accordance with local, regional, and national requirements. Open burning or dumping of this material is prohibited.

SAFETY DATA SHEET

Section 7 - Handling and Storage

7.1 Precautions for safe handling

Avoid contact with eyes and skin. Handle product with caution and ensure adequate ventilation. When used as a fertiliser, do not apply directly to areas where surface water is present, or to intertidal areas below the mean high-water mark. Water used to clean equipment must be disposed of correctly to avoid contamination.

7.2 Conditions for safe storage, including any incompatibles

IBCs - Store in its original, labelled, and closed container in dry, shaded, well-ventilated area away from other fertilisers, feedstuffs, and water supplies.

Bulk tanks – Tanks must be well ventilated. Non-seasoned metal should be avoided. pH should be monitored and adjusted as required and tank contents should be circulated regularly to avoid settlement. Vent tanks and purge with air before entry.

Product is incompatible with strong oxidising agents and concentrated nitric acid.

7.3 Specific end uses

Soil improver.

Section 8 - Exposure Control / Personal Protection

8.1 Control Parameters

Formic acid, CAS 64-18-6 Salmon emulsion GTH

IOELV 8hr 9mg/m³ Not established Not established

IOELV Short-term Not established Not established Not established

8.2 Exposure controls –

All PPE should be selected and worn in accordance with Regulation (EU) 2016/425

Respiratory Equipment: Not required for normal use.

Hand/Skin Protection: Wear appropriate clothing (impervious) and protective gloves to prevent extended or chronic skin contact.

Eye Protection: Wear approved safety glasses/goggles with side shields or appropriate face shield if aerosols are generated.

Other Protection: Gas monitoring equipment

Hygiene Measures: Wash hands after handling, and before eating, drinking and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Environmental controls: Use adequate ventilation.

SAFETY DATA SHEET

Section 9 - Physical and Chemical Properties

Appearance	Viscous, brown liquid
Odour	Fishy
pH (1:1w/water)	3.5-4.5
Melting point	N/A
Boiling point	105-110°C
Flash Point	N/A
Evaporation Rate (Butyl Acetate=1)	0.8
Flammable Limits (LEL/UEL)	N/A
Vapour density (Air=1)	N/A
Ignition temperature	N/A
Decomposition temperature	Unknown
Water Solubility	Soluble 40-55%
Specific Gravity (H2O=1)	0.98-1.05kg/m ³

Section 10 - Stability and Reactivity

Reactivity	N/A
Stability	Stable under recommended storage conditions
Conditions to avoid	pH above 4, DIRECT SUNLIGHT
Materials to avoid	Oxidising agents, mild steel, aluminium
Hazardous decomposition products	Ammonia, hydrogen gas, methane, hydrogen sulphide
Hazardous Polymerization	Not known to occur

SAFETY DATA SHEET

Section 11 - Toxicological Information

Acute toxicity	No data available
Skin corrosion/irritation	No data available
Serious eye damage/eye irritation	No data available
Respiratory or skin sensitisation	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC
Reproductive toxicity	No data available
STOT – single exposure	No data available
STOT – repeated exposure	No data available
Aspiration hazard	No data available

Section 12 - Ecological Information

Ecotoxicity	Not determined specifically for this mixture
Degradability	Easily degraded
Bio-accumulative potential	No data available
Mobility in soil	No data available
Results of PBT and vPvB assessment	No data available

Section 13 - Disposal Considerations

Product	Disposal in accordance with local, national, or international laws, ordinances, and statutes.
Packaging	Disposal in accordance with local, national, or international laws, ordinances, and statutes.

SAFETY DATA SHEET

Section 14 - Transport Information

UN Number	Not regulated
DOT (US)	Not dangerous goods
IMDG	Not dangerous goods
IATA	Not dangerous goods
IMO	Not dangerous for sea transport

Section 15 - Regulatory Information

Labelling according to EU Directives

Council Regulation (EC) No 834/2007 of 28 June 2007 on organic production and labelling of organic products and repealing Regulation (EEC) No 2092/91

Section 16 - Other Information

Symbol:	Xi
Indication:	Irritant
Risk Phrases: R36/38	Irritating to eyes and skin
Safety Phrases: S2 S24/25 S37/39 S60	Keep out of reach of children Avoid contact with skin and eyes Wear gloves and eye/face protection This material and its contents must be disposed of as hazardous waste

Disclaimer: The information contained herein is accurate to the best of our knowledge. We do not suggest or guarantee that any hazards listed herein are the only ones which exist. Pelagia (Bressay) Limited makes no warranty of any kind, expressed or implied, concerning the safe use of this material in your process or combination with any other substances. Effects can be aggravated by other materials and/or this material may aggravate or add to the effects of other materials. This material may be released from gas, liquid or solid materials made directly or indirectly from it. User has the sole responsibility to determine the suitability of the materials for any use and the manner of use contemplated. User must meet all applicable safety and health standards.