

Material Safety Data Sheet
FISH MEAL

Section 1 - Product Identification

Synonyms : Fish Meal
Molecular Weight :
Chemical Formula :
Company Identification : Tradeasia International Pte. Limited
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Uses advised against:

Section 2 – Composition/Information on Ingredients

2.1. Substances

CAS-No. :	94944-98-6
EC-No. :	305-676-3

Section 3 – Hazards Identification

3.1. Classification of the substance or mixture

Not a hazardous substance or mixture.

3.2. GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

3.3. Hazards not otherwise classified (HNOC) or not covered by GHS

Not available

Section 4 – First-Aid Measures

4.1. Description of first aid measures

General Consult a physician. Show this safety data sheet to the doctor in attendance.

Inhalation If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Eyes Flush eyes with water as a precaution

Skin Wash off with soap and plenty of water. Consult a physician.

Ingestion Never give anything by mouth to an unconscious person. Rinse mouth with water.

4.2. Most important symptoms and effects, both acute and delayed

- The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
- Indication of any immediate medical attention and special treatment needed
No data available

Section 5 – Fire Fighting Measures

5.1. Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Carbon oxides, Nitrogen oxides (NO_x), Hydrogen chloride gas

5.3. Advice for fire-fighters

Wear self-contained breathing apparatus for fire fighting if necessary.

5.4. Further information

No data available

Section 6 – Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas.
Avoid breathing dust.

For personal protection see section 8.

6.2. Environmental precautions

Do not let product enter drains.

6.3. Methods and material for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4. Reference to other sections

For disposal see section 13.

Section 7 – Handling and Storage

7.1. Precautions for safe handling

Avoid formation of dust and aerosols. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.

Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

7.2. Conditions for safe storage, including any Incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

Hygroscopic. Store under inert gas.

Storage class (TRGS 510): Non Combustible Solids

7.3. Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

Section 8 – Exposure Controls/Personal Protection

8.1. Control Parameters

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

8.2. Exposure Controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Splash contact

Material: Nitrile rubber Minimum layer thickness: 0.11 mm

Break through time: 480 min

Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory Protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Do not let product enter drains.

Section 9 – Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Yellow Brown Powder
Odour	Fresh
Odour Threshold	No data available
pH	No data available
Melting point/freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	No data available
Water solubility	No data available
Partition coefficient: n- octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available

9.2 Other safety information

No data available

Section 10 – Stability and Reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

Storage Stable under recommended conditions

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

No data available

10.5. Incompatible materials

Strong oxidizing agents, Strong acids, Strong bases

10.6. Hazardous decomposition products

Other decomposition products – No data available

In the event of fire: see section 5.

Section 11 – Toxicological Information

11.1. Information on toxicological effects

Acute toxicity

LD50 Oral – Rat – 3,500 mg/kg Inhalation: No data available Dermal: No data available

No data available

Skin corrosion/irritation

Skin – Rabbit

Result: No skin irritation – 20 h

Serious eye damage/eye irritation

Eyes – Rabbit

Result: No eye irritation

Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

Ames test

Salmonella typhimurium

Result: negative

Carcinogenicity

IARC: 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.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

No data available

Specific target organ toxicity – single exposure

No data available

Specific target organ toxicity – repeated exposure

No data available

Aspiration hazard

No data available

Additional Information

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Section 12 – Ecological Information

12.1. Toxicity

Toxicity to fish	static test LC50 - Leuciscus idus (Golden orfe) - > 10,000 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates	static test EC50 - Daphnia magna (Water flea) - 500 mg/l - 48 h
Toxicity to algae	static test EC50 - Desmodesmus subspicatus (Scenedesmus subspicatus) - >500 mg/l - 72 h
Toxicity to bacteria	EC50 - Pseudomonas putida - 132.8 mg/l - 17 h(DIN 38 412 Part 8)

12.2. Persistence and degradability

Biodegradability Aerobic - Exposure time 5 d

Result : 75 % – Readily biodegradable

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6. Other adverse effects

No data available

Section 13 – Disposal Considerations

13.1. Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

Section 14 – Transport Information

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

Section 15 – Regulatory Information

- SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

- SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De minimise) reporting levels established by SARA Title III, Section 313.

- SARA 311/312 Hazards

No SARA Hazards

- Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

- California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16 : Additional Information

- "IMO" : not dangerous for sea transport

Disclaimer

Additional references can be taken from the label or the product description. The information given here is correct to the best of our knowledge at the time of writing this sheet. No responsibility can be taken for improper use or handling of the product.

