



# SAFETY DATA SHEET

## 1. Identification

|                                                               |                                                                           |                 |  |
|---------------------------------------------------------------|---------------------------------------------------------------------------|-----------------|--|
| <b>Product identifier</b>                                     | <b>Fish Oil</b>                                                           |                 |  |
| <b>Other means of identification</b>                          |                                                                           |                 |  |
| <b>Catalog number</b>                                         | 1270424                                                                   |                 |  |
| <b>CAS number</b>                                             | 8016-13-5                                                                 |                 |  |
| <b>Recommended use</b>                                        | For analytical laboratory use only.                                       |                 |  |
| <b>Recommended restrictions</b>                               | Not for use as a drug. Not for administration to humans or animals.       |                 |  |
| <b>Manufacturer/Importer/Supplier/Distributor information</b> |                                                                           |                 |  |
| <b>Manufacturer</b>                                           |                                                                           |                 |  |
| <b>Company name</b>                                           | U. S. Pharmacopeia                                                        |                 |  |
| <b>Address</b>                                                | 12601 Twinbrook Parkway<br>Rockville<br>MD<br>20852-1790<br>United States |                 |  |
| <b>Telephone</b>                                              | Technical Services                                                        | 301-816-8129    |  |
| <b>Website</b>                                                | www.usp.org                                                               |                 |  |
| <b>E-mail</b>                                                 | RSTECH@usp.org                                                            |                 |  |
| <b>Emergency phone number</b>                                 | CHEMTREC within US & Canada                                               | 1-800-424-9300  |  |
|                                                               | CHEMTREC outside US & Canada                                              | +1 703-527-3887 |  |

## 2. Hazard(s) identification

|                                                  |                 |
|--------------------------------------------------|-----------------|
| <b>Physical hazards</b>                          | Not classified. |
| <b>Health hazards</b>                            | Not classified. |
| <b>Environmental hazards</b>                     | Not classified. |
| <b>OSHA defined hazards</b>                      | Not classified. |
| <b>Label elements</b>                            |                 |
| <b>Hazard symbol</b>                             | None.           |
| <b>Signal word</b>                               | None.           |
| <b>Hazard statement</b>                          | Not available.  |
| <b>Precautionary statement</b>                   |                 |
| <b>Prevention</b>                                | Not available.  |
| <b>Response</b>                                  | Not available.  |
| <b>Storage</b>                                   | Not available.  |
| <b>Disposal</b>                                  | Not available.  |
| <b>Hazard(s) not otherwise classified (HNOC)</b> | None known.     |
| <b>Supplemental information</b>                  | None.           |

## 3. Composition/information on ingredients

| <b>Substance</b>     |                                 |                   |          |
|----------------------|---------------------------------|-------------------|----------|
| <b>Chemical name</b> | <b>Common name and synonyms</b> | <b>CAS number</b> | <b>%</b> |
| Fish Oil             |                                 | 8016-13-5         | 100      |

Information provided in the SDS is not specific to the lot provided. Refer to the label and USP Certificate/Product Information Sheet for the assigned value of a particular lot.

## 4. First-aid measures

|                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Inhalation                                                             | Move to fresh air. Call a physician if symptoms develop or persist.                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Skin contact                                                           | Wash off with soap and water. Get medical attention if irritation develops and persists.                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Eye contact                                                            | Rinse with water. Get medical attention if irritation develops and persists.                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Ingestion                                                              | Rinse mouth. Get medical attention if symptoms occur.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Most important symptoms/effects, acute and delayed                     | None known.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Indication of immediate medical attention and special treatment needed | Provide general supportive measures and treat symptomatically.                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| General information                                                    | Remove from exposure. Remove contaminated clothing. For treatment advice, seek guidance from an occupational health physician or other licensed health-care provider familiar with workplace chemical exposures. In the United States, the national poison control center phone number is 1-800-222-1222. If person is not breathing, give artificial respiration. If breathing is difficult, give oxygen if available. Persons developing serious hypersensitivity (anaphylactic) reactions must receive immediate medical attention. |

## 5. Fire-fighting measures

|                                                               |                                                                                               |
|---------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Suitable extinguishing media                                  | Water fog. Foam. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ).                      |
| Unsuitable extinguishing media                                | None known.                                                                                   |
| Specific hazards arising from the chemical                    | No unusual fire or explosion hazards noted.                                                   |
| Special protective equipment and precautions for firefighters | Self-contained breathing apparatus and full protective clothing must be worn in case of fire. |
| Fire fighting equipment/instructions                          | Move containers from fire area if you can do so without risk.                                 |
| Specific methods                                              | Use standard firefighting procedures and consider the hazards of other involved materials.    |
| General fire hazards                                          | No unusual fire or explosion hazards noted.                                                   |

## 6. Accidental release measures

|                                                                     |                                                                                                                                                                                                                                                                                                  |
|---------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Personal precautions, protective equipment and emergency procedures | Keep unnecessary personnel away. Wear appropriate personal protective equipment. Avoid inhalation of vapors. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. For personal protection, see section 8 of the SDS. |
| Methods and materials for containment and cleaning up               | Absorb spillage with suitable absorbent material. Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.                                                                                                                                      |
| Environmental precautions                                           | Avoid discharge into drains, water courses or onto the ground.                                                                                                                                                                                                                                   |

## 7. Handling and storage

|                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Precautions for safe handling                                | As a general rule, when handling USP materials, avoid all contact and inhalation of dust, mists, and/or vapors associated with the material. Clean equipment and work surfaces with suitable detergent or solvent after use. After removing gloves, wash hands and other exposed skin thoroughly. Select and use containment devices and personal protective equipment based on a risk assessment of material potency and exposure potential. |
| Conditions for safe storage, including any incompatibilities | Store in tight container. This material should be handled and stored per label instructions to ensure product integrity.                                                                                                                                                                                                                                                                                                                      |

## 8. Exposure controls/personal protection

|                                                                       |                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Occupational exposure limits                                          | No exposure limits noted for ingredient(s).                                                                                                                                                                                                                                                                                                       |
| Biological limit values                                               | No biological exposure limits noted for the ingredient(s).                                                                                                                                                                                                                                                                                        |
| Appropriate engineering controls                                      | For laboratory operations, use good technique and limit open handling. Control exposures to below the occupational exposure level (if available). Select and use containment devices and personal protective equipment based on a risk assessment of exposure potential. Cover all containers for solutions and slurries while being transferred. |
| Individual protection measures, such as personal protective equipment |                                                                                                                                                                                                                                                                                                                                                   |
| Eye/face protection                                                   | Wear safety glasses with side shields, chemical splash goggles, or full face shield, if necessary. Base the choice of protection on the job activity and potential for contact with eyes or face. An emergency eye wash station should be available.                                                                                              |

|                                       |                                                                                                                                                                                                                         |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Skin protection</b>                |                                                                                                                                                                                                                         |
| <b>Hand protection</b>                | Wear nitrile or other impervious gloves if skin contact is possible. When the material is dissolved or suspended in an organic solvent, wear gloves that provide protection against the solvent.                        |
| <b>Other</b>                          | Wear lab coat. Base the choice of skin protection on the job activity, potential for skin contact and solvents and reagents in use. Do not wear protective garments in common areas (e.g., cafeterias) or out-of-doors. |
| <b>Respiratory protection</b>         | Respirators are generally not required for laboratory operations. Choose respiratory protection appropriate to the task and the level of existing engineering controls.                                                 |
| <b>Thermal hazards</b>                | Wear appropriate thermal protective clothing, when necessary.                                                                                                                                                           |
| <b>General hygiene considerations</b> | Handling practices in this SDS are recommendations for laboratory use of USP materials.                                                                                                                                 |

## 9. Physical and chemical properties

|                                                     |                                                                                  |
|-----------------------------------------------------|----------------------------------------------------------------------------------|
| <b>Appearance</b>                                   | Appearance descriptions are general information and not specific to any USP lot. |
| <b>Physical state</b>                               | Liquid.                                                                          |
| <b>Form</b>                                         | Liquid.                                                                          |
| <b>Color</b>                                        | Pale yellow.                                                                     |
| <b>Odor</b>                                         | Fishy odor.                                                                      |
| <b>Odor threshold</b>                               | Not available.                                                                   |
| <b>pH</b>                                           | 5 - 6                                                                            |
| <b>Melting point/freezing point</b>                 | 87.8 - 113 °F (31 - 45 °C)                                                       |
| <b>Initial boiling point and boiling range</b>      | 752 °F (400 °C)                                                                  |
| <b>Flash point</b>                                  | > 356.0 °F (> 180.0 °C)                                                          |
| <b>Evaporation rate</b>                             | Not available.                                                                   |
| <b>Flammability (solid, gas)</b>                    | Not applicable.                                                                  |
| <b>Upper/lower flammability or explosive limits</b> |                                                                                  |
| <b>Flammability limit - lower (%)</b>               | Not available.                                                                   |
| <b>Flammability limit - upper (%)</b>               | Not available.                                                                   |
| <b>Explosive limit - lower (%)</b>                  | Not available.                                                                   |
| <b>Explosive limit - upper (%)</b>                  | Not available.                                                                   |
| <b>Vapor pressure</b>                               | Not available.                                                                   |
| <b>Vapor density</b>                                | Not available.                                                                   |
| <b>Relative density</b>                             | Not available.                                                                   |
| <b>Solubility(ies)</b>                              |                                                                                  |
| <b>Solubility (water)</b>                           | Insoluble.                                                                       |
| <b>Auto-ignition temperature</b>                    | Not available.                                                                   |
| <b>Decomposition temperature</b>                    | Not available.                                                                   |
| <b>Viscosity</b>                                    | Not available.                                                                   |
| <b>Other information</b>                            |                                                                                  |
| <b>Specific gravity</b>                             | 0.9                                                                              |

## 10. Stability and reactivity

|                                           |                                                                                               |
|-------------------------------------------|-----------------------------------------------------------------------------------------------|
| <b>Reactivity</b>                         | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| <b>Chemical stability</b>                 | Material is stable under normal conditions.                                                   |
| <b>Possibility of hazardous reactions</b> | No dangerous reaction known under conditions of normal use.                                   |
| <b>Conditions to avoid</b>                | Contact with incompatible materials.                                                          |
| <b>Incompatible materials</b>             | Strong oxidizing agents.                                                                      |
| <b>Hazardous decomposition products</b>   | Irritating and/or toxic fumes or gases. Emits toxic fumes under fire conditions.              |

## 11. Toxicological information

### Information on likely routes of exposure

|              |                                                             |
|--------------|-------------------------------------------------------------|
| Inhalation   | Knowledge about health hazard is incomplete.                |
| Skin contact | Health injuries are not known or expected under normal use. |
| Eye contact  | Health injuries are not known or expected under normal use. |
| Ingestion    | Health injuries are not known or expected under normal use. |

**Symptoms related to the physical, chemical and toxicological characteristics**      Gastrointestinal disturbances.

### Information on toxicological effects

#### Acute toxicity

| Product                  | Species | Test Results |
|--------------------------|---------|--------------|
| Fish Oil (CAS 8016-13-5) |         |              |
| <b>Acute</b>             |         |              |
| <b>Oral</b>              |         |              |
| LD50                     | Rat     | > 5000 mg/kg |

**Skin corrosion/irritation**      Based on available data, the classification criteria are not met.

**Serious eye damage/eye irritation**      Based on available data, the classification criteria are not met.

#### Local effects

Eye irritation test  
Result: Non-irritating.  
Species: Rabbit  
Skin irritation test  
Result: Non-irritating.  
Species: Rabbit

#### Respiratory or skin sensitization

**Respiratory sensitization**      Knowledge about health hazard is incomplete.

**Skin sensitization**      Knowledge about health hazard is incomplete.

**Germ cell mutagenicity**      Knowledge about mutagenicity is incomplete.

**Carcinogenicity**      Knowledge about carcinogenicity is incomplete.

#### IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

#### US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

**Reproductive toxicity**      Based on available data, the classification criteria are not met.  
Human epidemiological studies have not identified abnormalities caused by therapeutic use of this material during pregnancy.

#### Reproductivity

8 - 16 % Generation study  
Result: Administration of fish oil to male and female rats throughout their lifetime produced no adverse fertility or reproductive effects.  
Species: Rat

**Specific target organ toxicity - single exposure**      Knowledge about health hazard is incomplete.

**Specific target organ toxicity - repeated exposure**      Knowledge about health hazard is incomplete.

**Aspiration hazard**      Knowledge about health hazard is incomplete.

## 12. Ecological information

### Ecotoxicity

| Product                       | Species                                                                                                                                                                                 |                           | Test Results           |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|------------------------|
| Fish Oil (CAS 8016-13-5)      |                                                                                                                                                                                         |                           |                        |
| Aquatic                       |                                                                                                                                                                                         |                           |                        |
| Algae                         | EC50                                                                                                                                                                                    | Freshwater algae          | > 100 mg/l, 72 hours   |
| Crustacea                     | EC50                                                                                                                                                                                    | Daphnia magna             | > 100 mg/l, 48 hours   |
| Fish                          | LC50                                                                                                                                                                                    | Zebra danio (Danio rerio) | > 10000 mg/l, 96 hours |
| Persistence and degradability | No data is available on the degradability of this substance.                                                                                                                            |                           |                        |
| Bioaccumulative potential     | No data available.                                                                                                                                                                      |                           |                        |
| Mobility in soil              | No data available.                                                                                                                                                                      |                           |                        |
| Other adverse effects         | No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component. |                           |                        |

## 13. Disposal considerations

|                                              |                                                                                                                                                                                                                            |
|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Disposal instructions</b>                 | Dispose in accordance with all applicable regulations. Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. |
| <b>Local disposal regulations</b>            | Dispose in accordance with all applicable regulations.                                                                                                                                                                     |
| <b>Hazardous waste code</b>                  | The waste code should be assigned in discussion between the user, the producer and the waste disposal company.                                                                                                             |
| <b>Waste from residues / unused products</b> | Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).                                                            |
| <b>Contaminated packaging</b>                | Since emptied containers may retain product residue, follow label warnings even after container is emptied.                                                                                                                |

## 14. Transport information

### DOT

Not regulated as dangerous goods.

### IATA

Not regulated as dangerous goods.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not established.

**General information** It is the shipper's responsibility to determine the correct transport classification at the time of shipment.

## 15. Regulatory information

**US federal regulations** This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

### Toxic Substances Control Act (TSCA)

#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

### CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

### SARA 304 Emergency release notification

Not regulated.

### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### SARA 302 Extremely hazardous substance

Not listed.

**SARA 311/312 Hazardous chemical** No

**SARA 313 (TRI reporting)**

Not regulated.

**Other federal regulations****Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

**Safe Drinking Water Act (SDWA)** Not regulated.**US state regulations****California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**International Inventories**

| Country(s) or region        | Inventory name                                                         | On inventory (yes/no)* |
|-----------------------------|------------------------------------------------------------------------|------------------------|
| Australia                   | Australian Inventory of Chemical Substances (AICS)                     | Yes                    |
| Canada                      | Domestic Substances List (DSL)                                         | Yes                    |
| Canada                      | Non-Domestic Substances List (NDSL)                                    | No                     |
| China                       | Inventory of Existing Chemical Substances in China (IECSC)             | Yes                    |
| Europe                      | European Inventory of Existing Commercial Chemical Substances (EINECS) | Yes                    |
| Europe                      | European List of Notified Chemical Substances (ELINCS)                 | No                     |
| Japan                       | Inventory of Existing and New Chemical Substances (ENCS)               | No                     |
| Korea                       | Existing Chemicals List (ECL)                                          | Yes                    |
| New Zealand                 | New Zealand Inventory                                                  | Yes                    |
| Philippines                 | Philippine Inventory of Chemicals and Chemical Substances (PICCS)      | Yes                    |
| Taiwan                      | Taiwan Chemical Substance Inventory (TCSI)                             | Yes                    |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory                          | Yes                    |

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

**16. Other information, including date of preparation or last revision****Issue date** 12-21-2006**Revision date** 08-29-2022**Version #** 03

**Disclaimer** USP materials are sold for analytical laboratory use only, and NOT for human consumption. The information contained herein is applicable solely to the chemical substance when used for analytical laboratory use and does not necessarily relate to any other use of the substance described, (i.e. at different concentrations, in drug dosage forms, or in bulk quantities). USP materials are intended for use by persons having technical skill and at their own discretion and risk. This information has been developed by USP staff from sources considered reliable but has not been independently verified by the USP. Therefore, the USP Convention cannot guarantee the accuracy of the information in these sources nor should the statements contained herein be considered an official expression. NO REPRESENTATION OR WARRANTY, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE is made with respect to the information contained herein.