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SAFETY DATA SHEET

Product Name: OPM-CHO PFF05

Revision Date: 2018-08-24

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Checker: Dongxuesheng

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Shanghai Research Institute of Chemical Industry Testing Co., Ltd.



Shanghai OPM Biosciences Co., Ltd.

SAFETY DATA SHEET

OPM-CHO PFF05**SECTION1 PRODUCT AND COMPANY IDENTIFICATION**

Product name: OPM-CHO PFF05
Company: Shanghai OPM Biosciences Co., Ltd.
Address: No. 28 Building, Lane 908, Ziping Road, Pudong New District, Shanghai, 201321,
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SDS Number: 2618070220
SDS Date: 2018-08-24

SECTION2 HAZARDS IDENTIFICATION

GHS Classification:

Physical Hazards:

Not classified.

Health Hazards:

Skin corrosion/irritation (Category 2)

Serious eye damage/irritation (Category 2A)

Environmental Hazards:

Not classified.

The hazards not mentioned are not applicable or no data available.

Label Elements:

Pictogram:



Signal Word:

Warning

Hazard Statements:

Causes skin irritation.
Causes serious eye irritation.

Prevention Precautionary Statements:

Wash thoroughly after handling.
Wear protective gloves/eye protection/face protection.

Response Precautionary Statements:

IF ON SKIN: Wash with plenty water.
If skin irritation occurs: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.

Storage Precautionary Statements:

None.

Disposal Precautionary Statement:

None.

SECTION3 INFORMATION ON INGREDIENTS

Product name: OPM-CHO PFF05

| Ingredient | Concentration | CAS No. | EC No. |
|---|---------------|------------|-----------|
| Amino acid salts | <53.52% | / | / |
| Sodium phosphate tribasic dodecahydrate | 3.00% | 10101-89-0 | 600-151-8 |
| 1,4-Diaminobutane dihydrochloride | 3.23% | 333-93-7 | 206-375-9 |
| L-Cysteine Hydrochloride Monohydrate | 1.50% | 7048-04-6 | 200-157-7 |
| The remaining ingredients are confidential. | | | |

SECTION4 FIRST-AID MEASURES**Skin Exposure:**

In case of contact, wash skin with soap and copious amounts of water. If irritation persists, call a physician.

Eye Exposure:

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Inhalation Exposure:

If inhaled, remove to fresh air. If breathing is difficult, give oxygen.

Oral Exposure:

If victim is conscious, wash mouth out with water. Get medical aid if feel unwell.

SECTION5 FIRE FIGHTING MEASURES**Extinguishing Media:**

Suitable: Water spray, Dry chemical, Carbon dioxide or appropriate foam.

Specific Hazards Arising from the Chemical Product:

May decompose upon combustion or in high temperatures to generate Carbon oxides, Sulphur oxides, Phosphorus oxides, Hydrogen chloride, Sodium oxides, Magnesium oxides.

Germ Cell Mutagenicity:

No data available.

Carcinogenicity:

No data available.

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.

SECTION12 ECOLOGICAL INFORMATION**Ecotoxicity:****L-Arginine:**Toxicity to fish semi-static test LC₅₀ - Brachydanio rerio (zebrafish) - 2.8 mg/l - 96 h (OECD Test Guideline 203)**L-Serine:**Toxicity to daphnia and other aquatic invertebrates static test EC₅₀ - Daphnia magna (Water flea) - > 83 mg/l - 48h (OECD Test Guideline 202)

Toxicity to algae static test NOEC - Pseudokirchneriella subcapitata (green algae) - 1000 mg/l - 72 h (OECD Test Guideline 201)

L-Alanine:Toxicity to daphnia and other aquatic invertebrates static test EC₅₀ - Daphnia magna (Water flea) - > 100 mg/l - 48h (OECD Test Guideline 202)**L-Cysteine:**Toxicity to fish semi-static test LC₅₀ - Danio rerio (zebra fish) - > 100 mg/l - 96 h (OECD Test Guideline 203)Toxicity to daphnia and other aquatic invertebrates semi-static test EC₅₀ - Daphnia magna (Water flea) - > 100 mg/l - 48 h (OECD Test Guideline 202)**L-Glutamic acid:**Toxicity to fish static test LC₅₀ - Cyprinus carpio (Carp) - > 100 mg/l - 96 h (OECD Test Guideline 203)Toxicity to daphnia and other aquatic invertebrates static test EC₅₀ - Daphnia magna (Water flea) - > 100 mg/l - 48h (OECD Test Guideline 202)Toxicity to algae static test EC₅₀ - Pseudokirchneriella subcapitata (green algae) - > 31 mg/l - 72 h (OECD Test Guideline 201)**L-Proline:**Toxicity to daphnia and other aquatic invertebrates EC₅₀ - Daphnia magna (Water flea) - > 100 mg/l - 48h (OECD Test Guideline 202)**Sodium phosphate tribasic dodecahydrate:**Toxicity to fish LC₅₀ - Leuciscus idus (Golden orfe) - 2400 mg/l - 48 h**Persistence and degradability:**

L-Arginine: Biodegradability aerobic - Exposure time 28 d

Result: 60 % - Readily biodegradable

(OECD Test Guideline 301C)

L-Serine: Biodegradability aerobic - Exposure time 28 d

Result: 81 % - Readily biodegradable

(OECD Test Guideline 301)

L-Cysteine: Biodegradability aerobic - Exposure time 28 d

Result: 98 % - Readily biodegradable

(OECD Test Guideline 301A)

L-Glutamic acid: Biodegradability aerobic - Exposure time 28 d

Result: 97 % - Readily biodegradable

L-Proline: Biodegradability aerobic

Result: - Readily biodegradable

(OECD Test Guideline 301)

Bioaccumulative potential:

No data available.

Mobility in soil:

No data available.

Other adverse effects:

No data available.

SECTION13 DISPOSAL CONSIDERATION

Appropriate Method of Disposal of Substance:

Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with and afterburner and scrubber. Observe all federal, state, and local environmental regulations.

SECTION14 TRANSPORT INFORMATION

RID/ADR: Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

IATA: Non-Hazardous for Air Transport: Non-hazardous for air transport.

IMO: Non-Hazardous for Sea Transport: Non-hazardous for sea transport.

SECTION15 REGULATORY INFORMATION

Regulation (EC) No. 1272/2008 and the amendments:

Skin corrosion/irritation (Category 2)

Serious eye damage/irritation (Category 2A)

SECTION16 OTHER INFORMATION

Date:

2018-08-24

Department:

Shanghai Research Institute of Chemical Industry Testing Co., Ltd.

Tel (Fax) :+86-21-52815377/31765555

Revision:

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Reference Standard:

GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS (GHS), 6th revised edition

Other Information:

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. We make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of the information for their particular purposes. In no way shall we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising from using the above information.

