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SAFETY DATA SHEET

Product Name: OPM-CHO CD07 DPM

Revision Date: 2016-02-01

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Shanghai Research Institute of Chemical Industry Testing Centre

Shanghai OPM Biosciences Co., Ltd.

SAFETY DATA SHEET

OPM-CHO CD07 DPM

SECTION1 PRODUCT AND COMPANY IDENTIFICATION

Product name: OPM-CHO CD07 DPM
Company: Shanghai OPM Biosciences Co., Ltd.
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SDS Number: 2616010060
SDS Date: 2016-02-01

SECTION2 HAZARDS IDENTIFICATION

Hazards Identification:

Classification of the GHS

Acute aquatic toxicity (Category 3)

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

Emergency Overview:

Harmful to aquatic life.

SECTION3 INFORMATION ON INGREDIENTS

Product name: OPM-CHO CD07 DPM

Ingredient	Concentration	CAS No.	EC No.
Amino acid salts	<35.4%	/	/
Inorganic compounds containing barium	<0.01%	/	/
Inorganic compounds containing silver	<0.01%	/	/
Inorganic compounds containing copper	<0.01%	/	/
Inorganic compounds containing iron	<0.01%	/	/
Inorganic compounds containing zinc	<0.01%	/	/
2-Mercaptoethanol	<0.01%	60-24-2	200-464-6
Calcium chloride	<0.2%	10043-52-4	233-140-8

The remaining ingredients are the trade secret.

SECTION4 FIRST-AID MEASURES

Skin Exposure:

In case of contact, immediately 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. If irritation persists, 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 immediately.

SECTION5 FIRE FIGHTING MEASURES

Extinguishing Media:

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

Firefighting:

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Fire-extinguishing work is done from the windward. Uninvolved persons should evacuate to a safe place.

SECTION6 ACCIDENTAL RELEASE MEASURES

Procedure of Personal Precaution:

Use personal protective equipment. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Avoid breathing vapors, mist or dust. Entry to noninvolved personnel should be controlled around the leakage area by roping off, etc.

Methods for Cleaning up:

Sweep up with spade and transfer to a dry, clean, lidded container for disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

Environmental precautions:

Do not let product enter drains. Discharge into the environment must be avoided.

SECTION7 HANDLING AND STORAGE

Handling:

Wear appropriate protective clothing and safety gloves. Avoid inhalation. Avoid contact with eyes, skin and clothing. Avoid formation of dust. Mechanical exhaust required. Keep away from ignition sources, heat and flame. Incompatibilities: Strong oxidizing agents, Strong acids. Wash hands and face thoroughly after handling. No smoking at working site.

Storage:

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Keep away from heat, sparks, and flame. Keep away from sources of ignition. Incompatible: Strong oxidizing agents, Strong acids.

SECTION8 EXPOSURE CONTROL/PPE

Engineering Controls:

Safety shower and eye bath. Mechanical exhaust required.

Personal Protective Equipment:

Respiratory: Government approved respirator if needed.
 Eye: Chemical safety goggles.
 Clothing: Wear appropriate protective clothing.
 Hand: Safety gloves.

Other Protect:

No smoking, drinking and eating at working site. Wash thoroughly after handling.

SECTION9 PHYSICAL/CHEMICAL PROPERTIES

Appearance: Pale yellow granule powder
Odor: Weak odor
Melting Point/°C: >150°C decomposition
pH Value: 6.4(25°C, 50.0g/L)
Solubility: Partial soluble in water

SECTION10 STABILITY AND REACTIVITY**Stability:**

Stable under normal temperatures and pressures.

Materials to Avoid:

Strong oxidizing agents, Strong acids.

Hazardous Polymerization:

Will not occur.

Hazardous Decomposition Products:

Carbon oxides, Metal oxides etc.

SECTION11 TOXICOLOGICAL INFORMATION**Acute toxicity:**

Calcium chloride: Rat Oral LD₅₀: 1000mg/kg

Skin corrosion/irritation:

No data available.

Serious eye damage/irritation:

No data available.

SECTION12 ECOLOGICAL INFORMATION**Toxicity:**

Calcium chloride: Toxicity to fish LC₅₀ - *Lepomis macrochirus* - 10650 mg/l - 96 h
 Toxicity to daphnia and other aquatic invertebrates EC₅₀ - *Daphnia magna* (Water flea) - 2400 mg/l - 48h
 (OECD Test Guideline 202)
 L-Arginine: Toxicity to fish semi-static test LC₅₀ - *Brachydanio rerio* (zebrafish) - 2.8 mg/l - 96 h
 (OECD Test Guideline 203)

Persistence and degradability:

L-Arginine: Biodegradability aerobic - Exposure time 28 d
 Result: 60 % - Readily biodegradable
 (OECD Test Guideline 301C)

Bioaccumulative potential:

No data available.

Mobility in soil:

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:**

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

SECTION16 OTHER INFORMATION**Date:**

2016-02-01

Department:

Shanghai Research Institute of Chemical Industry Testing Centre
Tel (Fax) :8621-52815377/52800971/52807275/52811034/52569800

Revision:

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Other Information:

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