

CREATION DATE: Mar. 1, 2010

## MATERIAL SAFETY DATA SHEET

### 1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: **Magnesium Myristate**

SUPPLIER (Manufacturer): Taihei Chemical Industrial Co., Ltd. Nara Plant

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EMERGENCY TELEPHONE NUMBER: +81-745-74-2281 (PERSON IN CHARGE: Takayuki Ohashi)

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MSDS No. 8 6 1 - 5 0

### 2. HAZARDS IDENTIFICATION

MOST IMPORTANT HAZARDS: This product is combustible.

ADVERSE HUMAN HEALTH EFFECTS: There is a possibility that eye/skin contact may cause irritation.

ENVIRONMENTAL EFFECTS: There is a possibility of increasing BOD and COD in the environment.

PHYSICAL AND CHEMICAL HAZARDS: Combustible (This product is a salt of fatty acid.)

HAZARD CLASSIFICATION: No correspond to standard classification of GHS

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE OR PREPARATION: Substance

CHEMICAL NAME: Magnesium Tetradecanate

CHEMICAL FORMULA:  $\text{Mg}(\text{C}_{14}\text{H}_{27}\text{O}_2)_2$

CONTENT: 100 % (SPECIFICATION: as Mg after drying, 4.5 - 6.0 %)

CAS No.: 4086-70-8

### 4. FIRST-AID MEASURES

INHALATION: Remove to the place of fresh air, and let it gargle.

SKIN CONTACT: Flush thoroughly with a lot of flowing water and soap.

After that if something is wrong, get medical attention.

EYE CONTACT: Flush with a lot of water for several minutes.

(If you wear contact lenses, take out them.)

After that if something is wrong, get medical attention.

INGESTION: No problem if taking a little bit.

In case of taking a large amount, give about 2 glasses of water and induce vomiting, and if something is wrong, get prompt medical attention.

### 5. FIRE-FIGHTING MEASURES

EXTINGUISH MEDIA: Dry sand, Dry diatomite, Foam, Carbon dioxide, Dry chemical

(Extinguish by covering with above media.)

NOT SUITABLE EXTINGUISH MEDIA:

Water (When water is used, this product is floated and spread on the water surface, and there is a danger of making a fire expanding.)

EXTINGUISH METHODS: In case of neighboring fire, immediately transfer to a safe place if removable.

For fire-fighting, extinguish from the windward of the fire and do not scatter this product if possible.

## 6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: In case of large amount, Wear protective equipment (goggles, respirator, etc.).

Because this product is slippery product, mind your step for working.

ENVIRONMENTAL PRECAUTIONS: In case of flowing into drainage, the treatment to BOD/COD is required.

METHODS FOR CLEANING UP: Collect into containers not to scatter because this product is very light. After that treat as industrial wastes.

In case of a small amount, to incinerate the leakage is permitted.

When washing out, this product floats on the water, so that it is necessary to filtrate.

PREVENTION OF SECONDARY HAZARDS:

In case of large amounts of scattering, confirm that there are no fire sources not to ignite.

## 7. HANDLING AND STORAGE

HANDLING

TECHNICAL MEASURES: Because this product is fine powder and easy to scatter, take care of cross contamination.

PRECAUTIONS: No information in particular

SAFE HANDLING ADVICE: No information in particular

STORAGE

STORAGE CONDITIONS: Store indoors away from high temperature and high humidity, and also fire sources must be avoided.

After opening, use quickly.

The surface of the package is slippery because of the character of this product. Take sufficient care not to break packages by overloads or shocks.

SAFE PACKAGING MATERIALS: No information in particular

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

FACILITIES: Ventilator, Local exhaust ventilation system, Dust-removing facility

CONTROL PARAMETERS:

ADVISED VALUE BY JAPAN INDUSTRIAL HYGIENIC SOCIETY (edited in 1997):

INHALABLE DUST = NA, TOTAL DUST = 8 mg/m<sup>3</sup> (3rd category = organic dust)

ACGIH (edited in 1995): 10 mg/m<sup>3</sup>

PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION: Simple dustproof mask, Dustproof mask, Air-supplying mask

HAND PROTECTION: Dustproof gloves

EYE PROTECTION: Dustproof goggles

SKIN AND BODY PROTECTION: It is advisable to wear protective clothes.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE

FORM: Powder

COLOR: White

ODOR: No odor or Slight specific odor

pH: Not applicable (Insoluble to water)

SPECIFIC TEMPERATURES/TEMPERATURE RANGES AT WHICH CHANGES IN PHYSICAL STATE OCCUR

MELTING POINT: 100 - 125 °C

FLASH POINT: No data found

IGNITION POINT: No data found

EXPLOSION PROPERTIES:

EXPLOSIVE LIMIT (UPPER) No data found (LOWER) No data found

DENSITY: (APPARENT SPECIFIC VOLUME: about 4 - 5 ml/g)

## SOLUBILITY

TO WATER: Hardly soluble

TO OTHER SOLVENTS: Hardly soluble to ethanol or ether

## 10. STABILITY AND REACTIVITY

STABILITY: It is stable under the normal condition.

REACTIVITY: No information about the hazards for mixture and contact

CONDITIONS TO AVOID: Avoid heat, fire sources, and strong acids.

HAZARDOUS DECOMPOSITION PRODUCTS: None

## 11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY: No data found

(references: myristic acid) INTRAVENOUS MOUSE LD<sub>50</sub> 43 mg/kg

LOCAL EFFECTS: The dust of this product is irritative to eyes.

There is a possibility that skin contact for a long time may cause irritation.

## 12. ECOLOGICAL INFORMATION

MOBILITY: There is a possibility of moving to water areas.

See "ENVIRONMENTAL PRECAUTIONS" in SECTION 6.

## 13. DISPOSAL CONSIDERATIONS

See SECTION 6. "ACCIDENTAL RELEASE MEASURES" .

## 14. TRANSPORT INFORMATION

INTERNATIONAL REGULATIONS: None

THE UN CLASSIFICATION NUMBER: Not stated (Non-dangerous material)

SPECIFIC PRECAUTIONARY TRANSPORT MEASURES AND CONDITIONS:

Load not to let fall and break containers, and take care not to down the loads.

See SECTION 7. "HANDLING AND STORAGE" .

## 15. REGULATORY INFORMATION

TSCA STATUS: On TSCA INVENTORY

## 16. OTHER INFORMATION

Although written contents are created based on the data and information which can come to hand at present, what guarantee is not made about "PHYSICAL/CHEMICAL PROPERTIES" and "HAZARDS", etc.

Moreover, since written notes are the things for the usual handling, in special handling, please use with implementing the safety measures suitable for a use and usage.

### REFERENCES:

Registry of Toxic Effects of Chemical Substances (RTECS)

Database: MDL Information Systems, Inc.

ICSC

Japan ... Kagaku-daijiten (published by Kyoritsu Shuppan Co.,Ltd)

Kagaku-binran (published by Maruzen Co.,Ltd)

The data book of existing chemicals

(published by International Technical Information Institute)

The guide of 13700 Japanese chemicals (published by The Chemical Daily Co.,Ltd.)