



JUNSEI

Material safety data sheet

SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Catalog Numbers: 59197

Catalog Name: Magnesium bis(dihydrogen phosphate) tetrahydrate

Company Identification:

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CREATION DATE: July 11, 2013

SECTION 2 HAZARDS IDENTIFICATION

Physical and chemical hazard

Flammable solids : Out of category

Pyrophoric solids : Out of category

Substances and mixtures which, in contact with water, emit flammable gases

: Out of category

GHS label elements including precautionary statements

Symbol : -

Signal word : -

Hazard statement : -

SECTION 3 COMPOSITION, INFORMATION ON INGREDIENTS

Substance/Mixture : Substance

COMPONENT: Magnesium bis(dihydrogen phosphate) tetrahydrate

SYNONYMS: Magnesium phosphate monobasic tetrahydrate

CAS NUMBER : 13092-66-5 (anh)

US TSCA:inventory : Registration(anh)

EC NUMBER (EINECS): 236-004-6 (anh)

JAPAN NUMBER (ENCS): 1-387

PERCENTAGE: (EP) 44.1 ~ 50.3%(P₂O₅) , 12.4 ~ 14.4%(MgO)

SECTION 4 FIRST AID MEASURES

If inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

If on skin : Remove/Take off immediately all contaminated clothing. Rinse

skin with water/shower.
If in eyes : Rinse cautiously with water for several minutes.
Remove contact lenses ,if present and easy to do. Continue rinsing.
If eyes irritation persists, get medical advice/attention.
If swallowed : Rinse mouth. Call a POISON CENTER or doctor/physician.

SECTION 5 FIRE FIGHTING MEASURES

Extinguishing media : Water spray, dry chemical powder, alcohol-resistant foam, carbon dioxide
Prohibited extinguishing media : No data available.
Particular fire fighting : Move containers form fire area if it can be done without risk, if not possible, apply water form a safe distance to cool and protect surrounding area.
Protection for firefighters : Firefighters should wear protective equipment.

SECTION 6 ACCIDENTAL RELEASE MEASURES

General Information : Use proper personal protective equipment as indicated in Section 8.
Cautions for environment : Avoid release to the rivers, lakes, ocean, groundwater.
Spills/Leak : Absorb spills with absorbent (vermiculite, sand , fuller's earth) and place into a suitable disposal container for later disposal.

SECTION 7 HANDLING AND STORAGE

Handling : Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes.
Use only in a chemical fume hood.
Storage : Store in a cool, dry place. Store in the dark.
Store in a tightly closed container. Store in well-ventilated place.
Keep away from bases.

SECTION 8 EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls : Use adequate ventilation to keep airborne concentrations low.
Occupational exposure limits
ACGIH (2010) : Not established.
OELs (2012) : Not established.
Personal protective equipment :
Eye Protection : Goggles
Hand Protection : Protective gloves
Skin and body protection : Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection : Wear respiratory protection.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State : Crystalline powders.
Appearance : White.
Odor : No data available.

pH : 3.5 ~ 4.2(10g/L, 25)
Boiling Point : No data available.
Melting Point : No data available.
Flash Point : No data available.
Explosion Limits, lower ~ upper : No data available.
Vapor Pressure : No data available.
Vapor Density (Air = 1) : No data available.
Specific Gravity/Density : No data available.
Solubility in water : No data available.
Octanol/Water Partition Coefficient : No data available.
Autoignition Temperature : No data available.
Decomposition Temperature : No data available.
Molecular Formula : $\text{Mg}(\text{H}_2\text{PO}_4)_2 \cdot 4\text{H}_2\text{O}$
Molecular Weight : 290.34

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability : Stable in ordinary handling conditions.
Conditions to Avoid : Contact with bases.
Incompatibilities with Other Materials : Bases.
Hazardous Decomposition Products: No data available.
Hazardous Polymerization : No data available.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute toxicity:

Oral : Not possible to classify because of no data.
Dermal : Not possible to classify because of no data.
Gas : Not applicable (GHS definition).
Vapours : Not possible to classify because of no data.
Dusts and mists : Not possible to classify because of no data.

Skin corrosion/Irritation: Not possible to classify because of no data.
Serious eye damage/eye irritation: Not possible to classify because of no data.
Respiratory sensitization: Not possible to classify because of no data.
Skin sensitization: Not possible to classify because of insufficient data.
Mutagenicity: Not possible to classify because of no data.
Carcinogenic effects: Not possible to classify because of no data.
Effects on the reproductive system: Not possible to classify because of no data.
Specific target organ systemic toxicity (single exposure): Not possible to classify because of no data.
Specific target organ systemic toxicity (repeated exposure): Not possible to classify because of no data.
Aspiration hazard: Not possible to classify because of no data.

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity:

Hazardous to the aquatic environment (acute): Not possible to classify because of no data.

Hazardous to the aquatic environment (chronic) : Not possible to classify because of no data.

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with federal, state, and local regulations.

SECTION 14 TRANSPORT INFORMATION

Not regulated for transport.

SECTION 15 REGULATORY INFORMATION

Fire Service Act

: Not regulated

Poisonous and Deleterious Substances Control Act

: Not regulated.

Industrial Safety and Health Act

: Not regulated

Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof (MSDS required) (Effective from October 1, 2009) : Not regulated.

Substance Registration :

US TSCA inventory : Registration(anh)

EC number (EINECS) : 236-004-6(anh)

JAPAN number (ENCS) : 1-387(anh)

Australia (AICS) : Registration(anh)

Canada(DSL) : Registration(anh)

Korea number (ECL) : KE-22678(anh)

China(IECSC) : Registration(anh)

SECTION 16 OTHER INFORMATION

REFERENCES:

- The Merck Index 15 edition, Monographs No. 5746(anh)
- Chemical Risk Information Platform (CHRIP)
- GHS Classification Guidance for the Japanese Government 2nd revised (March, 2010).

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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