

**JUNSEI****Material safety data sheet**

SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Catalog Numbers: 83581

Catalog Name: (Food additives) Magnesium sulfate, crystal

Company Identification:

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CREATION DATE: February 28, 2013

SECTION 2 HAZARDS IDENTIFICATION

Physical and chemical hazard

Flammable solids : Out of category

Pyrophoric solid : Out of category

Self-heating substances and mixtures : 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 ward : -

Hazard statement : -

Precautionary statements : -

SECTION 3 COMPOSITION, INFORMATION ON INGREDIENTS

Substance/Mixture : Substance

Component : Magnesium sulfate heptahydrate

Chemical formula : $MgO_4S \cdot 7H_2O$

Cas number : 10034-99-8, 7487-88-9(anh)

US TSCA inventory : Registered

EC number (EINECS): 231-298-2(anh)

JAPAN number (ENCS) : 1-467

Content: 99.0 +%

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. Immediately call a POISON CENTER or
doctor/physician.
- If in eyes : Rinse cautiously with water for several minutes.
Remove contact lenses ,if present and easy to do. Continue rinsing.
Get medical advice/attention.
- If swallowed : Rinse mouth. Do not induce vomiting.
Immediately call a POISON CENTER or doctor/physician.

Potential acute health effects :

Inhalation ; Cough

Skin ; No data available

Eyes ; Redness.

Ingestion ; Abdominal pain. Diarrhoea. Vomiting.

Important signs and symptoms : The substance is mildly irritating to the eyes and respiratory tract.

SECTION 5 FIRE FIGHTING MEASURES

This product is noncombustible.

Extinguishing media : In case of fire in the surroundings, use appropriate extinguishing media.

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 : Vacuum or sweep up material and place into a suitable disposal container.

SECTION 7 HANDLING AND STORAGE

Handling : Avoid breathing dust, fumes. Avoid contact with skin and eyes.

Use only in a chemical fume hood.

Do not eat, drink or smoke when using this product.

Storage: : Store locked up.

Store in a well-ventilated place. Keep container tightly closed.

SECTION 8 EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls : Use adequate ventilation to keep airborne concentrations low.

Administrative levels (Industrial Safety and Health Act) : Not-established

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 : Solid

Appearance : Colorless prisms or needles crystals

Odor : Odorless

pH (25) : 5 ~ 8 (50g/L)

Melting Point: No data available

Boiling Point : No data available

Explosion Limits : No data available

Vapor Pressure : No data available

Specific Gravity/Density: 1.68

Solubility : 71 g(20 , H₂O 100ml)

Autoignition Temperature : No data available

Decomposition Temperature : No data available

Molecular Formula : MgSO₄·7H₂O

Molecular Weight : 246.48

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability : Stable in ordinary handling conditions.

On exposure to dry air at ordinary temp it loses ~ 1H₂O; at 70-80 ° loses 4H₂O; at 100 ° loses 5H₂O; at 120 ° loses 6H₂O, rapidly reabsorbing water when exposed to moist air; loses the last mol of water at ~ 250 ° .

Conditions to Avoid : Contact with heat and strong oxidizing agents.

Incompatibilities with Other Materials : Strong oxidizing agents.

Hazardous Decomposition Products: Toxic and corrosive fumes including sulfur oxides.

Hazardous Polymerization : Will not occur.

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 no 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

Ordinance for Enforcement of the Food Sanitation Act

: Article 12, Attached Table 1-411 of Cabinet order

Substance Registration :

Australia (AICS) : Registration

Canada(DSL) : Registered

Korea number (ECL) : KE-22752(anh)

China(IECSC) : Registration

SECTION 16 OTHER INFORMATION

REFERENCES:

- The Merck Index 14 edition, Monographs No. 05691(Magnesium Sulfate)
- Chemical Risk Information Platform (CHRIP)
- GHS Classification Guidance for the Japanese Government 2nd revised (March, 2010).
- Registry of Toxic Effects of Chemical Substances, No OM4500000(Magnesium sulfate (1:1))
- Hazardous Substances Data Bank (HSDB)

- International Chemical Safety Cards (ICSC) No. 1197(Magnesium sulfate)

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.

Junsei Chemical Co.,Ltd. shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.