

Safety Data Sheet AKM510 Date of issue: 11/11/2015 Version: 1.0

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### **Product identifier**

Product form : Substance Physical state : Solid

Substance name : MAGNESIUM 2,4-PENTANEDIONATE, dihydrate

Product code · AKM510

Formula : C10H14MgO4·2H2O

Synonyms : MAGNESIUM ACETYLACETONATE

: METAL COMPOUND Chemical family

# Relevant identified uses of the substance or mixture and uses advised against

: Chemical intermediate Use of the substance/mixture

For research use only

### Details of the supplier of the safety data sheet

# **GELEST, INC.**

11 East Steel Road Morrisville, PA 19067

USA

T 215-547-1015 - F 215-547-2484 - (M-F): 8:00 AM - 5:30 PM EST

info@gelest.com - www.gelest.com

# **Emergency telephone number**

**Emergency number** : CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International)

# **SECTION 2: Hazards identification**

### Classification of the substance or mixture

### **GHS-US** classification

Not classified

#### Label elements 2.2.

### **GHS-US labeling**

No labeling applicable

### Other hazards

No additional information available

#### **Unknown acute toxicity (GHS US)** 2.4.

No data available

# SECTION 3: Composition/Information on ingredients

# **Substance**

Substance type : Mono-constituent

: MAGNESIUM 2,4-PENTANEDIONATE, dihydrate Name

CAS No : 68488-07-3 EC no : 237-857-7

Name	Product identifier	%	GHS-US classification
Magnesium 2,4-pentanedionate, dihydrate	(CAS No) 68488-07-3	95 - 100	Not classified

# **Mixture**

Not applicable

# **SECTION 4: First aid measures**

# **Description of first aid measures**

First-aid measures general : Remove contaminated clothing and shoes. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). If possible show this sheet; if not

available show packaging or label.

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel First-aid measures after inhalation

unwell, seek medical advice.

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First-aid measures after skin contact : Wash with plenty of soap and water. Get medical advice/attention.

First-aid measures after eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical advice/attention.

First-aid measures after ingestion : Never give anything by mouth to an unconscious person. Get medical advice/attention.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : May cause irritation to the respiratory tract.

Symptoms/injuries after skin contact : May cause skin irritation.

Symptoms/injuries after eye contact : May cause eye irritation.

Symptoms/injuries after ingestion : No information available.

# 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

# **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Foam. Carbon dioxide. Dry chemical.

Unsuitable extinguishing media : None known.

#### 5.2. Special hazards arising from the substance or mixture

Fire hazard : Irritating fumes and organic acid vapors may develop when material is exposed to elevated

temperatures or open flame.

# 5.3. Advice for firefighters

Firefighting instructions : Exercise caution when fighting any chemical fire. Use water spray to cool exposed surfaces.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

Avoid contact with skin and eyes. Do not breathe dust.

# SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Protective equipment : Wear protective equipment as described in Section 8.

Emergency procedures : Evacuate unnecessary personnel.

# 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal

protection".

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

# 6.3. Methods and material for containment and cleaning up

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or

streams.

Methods for cleaning up : Sweep or shovel spills into appropriate container for disposal.

#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes. Do not breathe dust. Avoid dust formation. Provide local

exhaust or general room ventilation to minimize exposure to dust.

Hygiene measures : Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild

soap and water before eating, drinking or smoking and when leaving work.

# 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container tightly closed.

Storage area : Store in a well-ventilated place. Store away from heat.

# 7.3. Specific end use(s)

No additional information available

# **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

No additional information available

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**Exposure controls** 

Appropriate engineering controls : Provide local exhaust or general room ventilation.

Personal protective equipment : Avoid all unnecessary exposure. Emergency eye wash fountains and safety showers should be

available in the immediate vicinity of any potential exposure.

Hand protection : Neoprene or nitrile rubber gloves.

Eye protection Chemical goggles. Contact lenses should not be worn.

Skin and body protection Wear suitable protective clothing.

Where exposure through inhalation may occur from use, respiratory protection equipment is Respiratory protection

recommended. NIOSH-certified dust and mist (teal cartridge) respirator.

# SECTION 9: Physical and chemical properties

# Information on basic physical and chemical properties

Physical state Appearance Crystals.

Molecular mass 222.53/258.56 g/mol

Color Ivory-white. Odor No data available Odor threshold No data available No data available Refractive index No data available No data available Relative evaporation rate (butyl acetate=1) : 259 °C decomposes Melting point : No data available

Freezing point Boiling point No data available Flash point : No data available No data available Auto-ignition temperature No data available Decomposition temperature Flammability (solid, gas) No data available

No data available Vapor pressure Relative vapor density at 20 °C No data available Relative density No data available

< 3 % VOC content Water: 11 g/l Solubility

Ethanol: 5 g/l

Organic solvent:0.1 g/l toluene

Log Pow No data available Log Kow No data available No data available Viscosity, kinematic : No data available Viscosity, dynamic : No data available Explosive properties Oxidizing properties No data available : No data available **Explosion limits** 

#### Other information

No additional information available

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No additional information available

#### 10.2. **Chemical stability**

Stable.

#### 10.3. Possibility of hazardous reactions

Material decomposes slowly in contact with air by reaction with water and carbon dioxide.

#### 10.4. **Conditions to avoid**

Heat. Open flame. Sparks.

# Incompatible materials

No additional information available

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# **Hazardous decomposition products**

Organic acid. Magnesium oxide fumes.

# **SECTION 11: Toxicological information**

#### Information on toxicological effects 11.1.

: Not classified Acute toxicity Skin corrosion/irritation : Not classified Serious eye damage/irritation Not classified Respiratory or skin sensitization Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified Specific target organ toxicity (single exposure) : Not classified Specific target organ toxicity (repeated : Not classified

exposure)

: Not classified Aspiration hazard

Symptoms/injuries after inhalation May cause irritation to the respiratory tract.

Symptoms/injuries after skin contact May cause skin irritation. : May cause eye irritation. Symptoms/injuries after eye contact Symptoms/injuries after ingestion : No information available.

# **SECTION 12: Ecological information**

#### **Toxicity** 12.1.

No additional information available

#### 12.2. Persistence and degradability

No additional information available

#### **Bioaccumulative potential** 12.3.

No additional information available

#### 12.4. **Mobility in soil**

No additional information available

#### 12.5. Other adverse effects

Effect on ozone layer : No additional information available

Effect on the global warming : No known ecological damage caused by this product.

# **SECTION 13: Disposal considerations**

# Waste treatment methods

: Do not dispose of waste into sewer. Sewage disposal recommendations

Waste disposal recommendations Dispose in a safe manner in accordance with local/national regulations. Dispose of solid

materials or residues at a licensed site.

Ecology - waste materials : Avoid release to the environment.

# **SECTION 14: Transport information**

#### 14.1. **UN** number

Not regulated for transport.

# **UN** proper shipping name

Not applicable

#### 14.3. Additional information

Other information : No supplementary information available.

# Transport by sea

No additional information available

#### Air transport

No additional information available

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# **SECTION 15: Regulatory information**

# 15.1. US Federal regulations

### MAGNESIUM 2,4-PENTANEDIONATE, dihydrate (68488-07-3)

TSCA Exemption/Exclusion

CAUTION: This material is supplied for research and development purposes subject to the R&D exemption under TSCA, 40 CFR 720.36, and must meet the requirements of the exemption, including supervision by a "technically qualified individual" as defined by 40 CFR 720.3(ee). The use of this material for "commercial purposes" as defined by 40 CFR 720.3(r) is not permitted in the United States.

# Magnesium 2,4-pentanedionate, dihydrate (68488-07-3)

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

#### 15.2. International regulations

No additional information available

# 15.3. US State regulations

MAGNESIUM 2,4-PENTANEDIONATE, dihydrate(68488-07-3)				
U.S California - Proposition 65 - Carcinogens List	No			
U.S California - Proposition 65 - Developmental Toxicity	No			
U.S California - Proposition 65 - Reproductive Toxicity - Female	No			
U.S California - Proposition 65 - Reproductive Toxicity - Male	No			

#### Magnesium 2,4-pentanedionate, dihydrate (68488-07-3)

U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	Non-significant risk level (NSRL)
No	No	No	No	

# **SECTION 16: Other information**

Abbreviations and acronyms

Abbreviations: ND: Not Determined, No Data; NA: Not Applicable; LD: Lethal Dose; LC: Lethal Concentration; ATE: Acute Toxicity Estimates; H: hour; °: °C unless otherwise stated; mm: millimeters Hg, torr; PEL: permissible exposure level; TWA: time weighted average; TLV: threshold limit value; TG: Test Guideline; NIOSH: National Institute for Occupational Safety and Health; IARC: International Agency for Research on Cancer; NTP: National Toxicology Program; HMIS: Hazardous Material Information System; CAS No.: Chemcial Abstract Service Registration Number; EC No.: European Commission Registration Number; EC Index No.: European Commission Index Number; OECD: The Organisation for Economic Co-operation and Development.

# **HMIS III Rating**

Health : 2 Moderate Hazard - Temporary or minor injury may occur

Flammability : 1 Slight Hazard
Physical : 0 Minimal Hazard

Prepared by safety and environmental affairs.

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SDS US (GHS HazCom 2012) - Custom

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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