



ISO 9001 Quality System Certified Organization

MANUFACTURER & EXPORTER OF LABORATORY CHEMICALS AND OILS

Address : H.No.712/3, sainagar, Palghar mumbai 401102

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MATERIAL SAFETY DATA SHEET (MSDS) SDS/MSDS

Magnesium acetate tetrahydrate

1. Identification

Product Name : Magnesium acetate tetrahydrate

CAS No : 16674-78-5

Synonyms

Recommended Use

Uses advised against

Magnesium acetate tetrahydrate

Acetic acid, magnesium salt

Laboratory chemicals.



2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Combustible dust

Label Elements

Signal Word

Warning

Hazard Statements

May form combustible dust concentrations in air

Precautionary Statements

Storage

Yes

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

Hazards not otherwise classified (HNOC)

None identified

3. Composition/Information on Ingredients

Component

CAS No

Acetate, magnesium, tetrahydrate

Weight %

16674-78-5

Magnesium acetate

>95

142-72-3

ULTRA PURE-LAB CHEM INDUSTRIES (LLP)

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4. First-aid measures

Eye Contact

Skin Contact

Inhalation

Ingestion

Most important symptoms and effects

Notes to Physician

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.

Remove to fresh air. Get medical attention immediately if symptoms occur.

Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.

None reasonably foreseeable.

Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media

Unsuitable Extinguishing Media

Flash Point

Method

Autoignition Temperature

Explosion Limits

Upper

Lower

Water spray, carbon dioxide (CO₂), dry chemical, alcohol-resistant foam.

No information available

No information available

No information available

No information available

No data available

No data available

Sensitivity to Mechanical Impact No information available

Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical

Dust can form an explosive mixture with air. Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition. Fine dust dispersed in air may ignite.

Hazardous Combustion Products

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Carbon monoxide (CO). Carbon dioxide (CO₂). Magnesium oxides.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health

1

Flammability

1

Instability

1

Physical hazards

N/A



6. Accidental release measures

Personal Precautions

Environmental Precautions

Methods for Containment and Clean

Up

Use personal protective equipment as required. Ensure adequate ventilation. Avoid dust formation.

Should not be released into the environment.

Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

7. Handling and storage

Handling

Storage.

Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation. Avoid dust formation.

Store under an inert atmosphere. Keep container tightly closed in a dry and well-ventilated place. Protect from moisture. Incompatible Materials. Strong oxidizing agents. Strong acids. Strong bases.

8. Exposure controls / personal protection

Exposure Guidelines

Engineering Measures

Personal Protective Equipment

Eye/face Protection

Skin and body protection

Respiratory Protection

Hygiene Measures



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This product does not contain any known or suspected reproductive hazards
None under normal use conditions.

Wear appropriate protective eyeglasses or chemical safety goggles as described by
OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard
EN166.

Wear appropriate protective gloves and clothing to prevent skin exposure.

No protective equipment is needed under normal use conditions.

Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State

Appearance

Odor

Odor Threshold

pH

Melting Point/Range

Boiling Point/Range

Flash Point

Evaporation Rate

Flammability (solid,gas)

Flammability or explosive limits

Upper

Lower

Vapor Pressure

Vapor Density

Specific Gravity

Solubility

Partition coefficient; n-octanol/water

Autoignition Temperature

Decomposition Temperature

Solid

White

vinegar-like

No information available

8-9 5% aq.sol

80 °C / 176 °F

No information available

No information available

Not applicable

No information available

No data available

No data available



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No information available

Not applicable

1.454 (H₂O=1)

Soluble in water

No data available

No information available

No information available

Viscosity

Molecular Formula

Molecular Weight

Not applicable

C₄ H₆ O₄ Mg . 4 H₂ O

214.46



10. Stability and reactivity

Reactive Hazard

Stability

Conditions to Avoid

Incompatible Materials

None known, based on information available

Hygroscopic.

Avoid dust formation. Incompatible products. Heat, flames and sparks. Exposure to moisture. Exposure to moist air or water.

Strong oxidizing agents, Strong acids, Strong bases

Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO₂), Magnesium oxides

Hazardous Polymerization

Hazardous Reactions

Hazardous polymerization does not occur.

None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information

Oral LD₅₀

Dermal LD₅₀

Mist LC₅₀

Component Information

Component

Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.

Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.

Based on ATE data, the classification criteria are not met. ATE > 5 mg/l.

LD₅₀ Oral

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LD50 Dermal

Magnesium acetate

LD50 = 8610 mg/kg (Rat)

LD50 > 20000 mg/kg (Rabbit)

LC50 Inhalation

Not listed

No information available

Toxicologically Synergistic

Products

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation

Sensitization

Carcinogenicity

Component

No information available

No information available

The table below indicates whether each agency has listed any ingredient as a carcinogen.

CAS No

IARC

NTP

Acetate, magnesium,

tetrahydrate

16674-78-5

Not listed

Not listed

ACGIH

Not listed

OSHA

Not listed

Mexico

Not listed

Magnesium acetate

Mutagenic Effects

Reproductive Effects

Developmental Effects

Teratogenicity

142-72-3

STOT - single exposure

STOT - repeated exposure

Aspiration hazard

Not listed

Not listed



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No information available

No information available.

No information available.

No information available.

None known

None known

No information available

Symptoms / effects, both acute and No information available

Not listed

Not listed

Not listed

delayed

Endocrine Disruptor Information

Other Adverse Effects

No information available

The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity

Do not empty into drains.

Persistence and Degradability

Bioaccumulation/ Accumulation

Mobility

Soluble in water Persistence is unlikely based on information available.

No information available.

Will likely be mobile in the environment due to its water solubility.

13. Disposal considerations

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT

TDG

IATA

IMDG/IMO

Not regulated

Not regulated

Not regulated

Not regulated



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15. Regulatory information

United States of America Inventory

Component

CAS No

TSCA

TSCA Inventory notification

Active-Inactive

Acetate, magnesium, tetrahydrate

Magnesium acetate

16674-78-5

142-72-3

X

ACTIVE

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

'-' - Not Listed

TSCA 12(b) - Notices of Export

International Inventories

Not applicable

TSCA - EPA Regulatory

Flags--

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL),

Australia (AICS), China (IECSC), Korea

(KECL).

Component

CAS No

DSL

NDSL EINECS PICCS ENCS ISHL AICS IECSC KECL

Acetate, magnesium, tetrahydrate

16674-78-5--

Magnesium acetate

142-72-3

205-554-9

KECL - NIER number or KE number (<http://ncis.nier.go.kr/en/main.do>)

U.S. Federal Regulations

SARA 313

Not applicable

SARA 311/312 Hazard Categories See section 2 for more information

Magnesium acetate tetrahydrate Revision Date 25-Dec-2021

CWA (Clean Water Act) Not applicable

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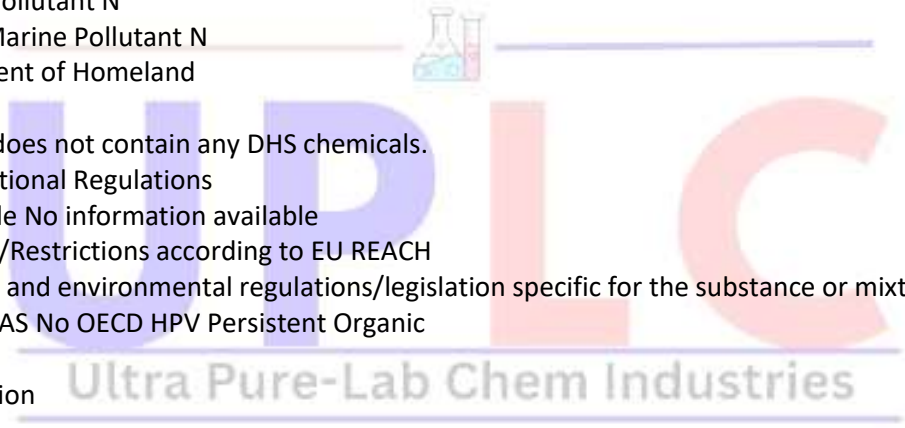
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Clean Air Act Not applicable
 OSHA - Occupational Safety and Health Administration
 Not applicable
 CERCLA Not applicable
 California Proposition 65 This product does not contain any Proposition 65 chemicals.
 U.S. State Right-to-Know Regulations
 Not applicable
 U.S. Department of Transportation Reportable Quantity (RQ): N
 DOT Marine Pollutant N
 DOT Severe Marine Pollutant N
 U.S. Department of Homeland Security
 This product does not contain any DHS chemicals.
 Other International Regulations
 Mexico - Grade No information available
 Authorisation/Restrictions according to EU REACH
 Safety, health and environmental regulations/legislation specific for the substance or mixture
 Component CAS No OECD HPV Persistent Organic Pollutant
 Ozone Depletion Potential
 Restriction of Hazardous Substances (RoHS)
 Acetate, magnesium, tetrahydrate
 16674-78-5 Not applicable Not applicable Not applicable Not applicable
 Magnesium acetate 142-72-3 Listed Not applicable Not applicable Not applicable
 Component CAS No Seveso III Directive (2012/18/EC)
 Qualifying Quantities for Major Accident Notification
 Seveso III Directive (2012/18/EC)
 Qualifying Quantities for Safety Report Requirements
 Rotterdam





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Convention (PIC)

Basel Convention

(Hazardous Waste)

Acetate, magnesium,

tetrahydrate

16674-78-5 Not applicable Not applicable Not applicable Not applicable

Magnesium acetate 142-72-3 Not applicable Not applicable Not applicable Not applicable

16. Other information

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the

date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage,

transportation, disposal and release and is not to be considered a warranty or quality specification.

The information

relates only to the specific material designated and may not be valid for such material used in combination with any other

materials or in any process, unless specified in the text

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