

SECTION 1: PRODUCT IDENTIFICATION

PRODUCT NAME MAGNESIUM SULFATE, USP (Heptahydrate) (Epsom Salts)

PRODUCT CODE 0792

SUPPLIER MEDISCA Inc.

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MEDISCA Pharmaceutique Inc.

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EMERGENCY PHONE CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300

NSW Poisons Information Centre: 131 126

National Chemical Emergency Centre 44(0)1235239670

RECOMMENDED USES Manufacturing and Compounding

RESTRICTIONS ON USE Not applicable

SECTION 2: HAZARDS IDENTIFICATION

GHS CLASSIFICATION Based on available data, the classification criteria are not met.

PICTOGRAM Not Applicable
SIGNAL WORD Not applicable
HAZARD STATEMENT(S) Not applicable

ADVERSE PHYSIOCHEMICAL, HUMAN Not applicable

HEALTH AND ENVIRONMENTAL

EFFECTS

Last Revision: 03/2024

PRECAUTIONARY STATEMENT(S) Prevention Not applicable

Response Not applicable
Storage Not applicable
Disposal Not applicable

HMIS CLASSIFICATION Health Hazard 1 Flammability 0

Reactivity 0 Personal Protection C

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS



CHEMICAL NAME Magnesium Sulfate Heptahydrate

BOTANICAL NAME

SYNONYM

Not applicable

CHEMICAL FORMULA

MgSO4 • 7H2O

CHEMICAL FAMILY Inorganic salt, Epsom Salt

CAS NUMBER 10034-99-8
ALTERNATE CAS NUMBER Not applicable
MOLECULAR WEIGHT 246.4706

COMPOSITION CHEMICAL NAME CAS NUMBER EC NUMBER % BY WEIGHT

MAGNESIUM SULFATE (Heptahydrate) 10034-99-8 600-073-4 100

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as health hazards and hence require reporting in this section.

Equivalence. Each g of magnesium sulfate (heptahydrate) represents about 4.1 mmol of magnesium.

Magnesium sulfate (heptahydrate) 10.1 g is equivalent to about 1 g of magnesium.

SECTION 4: FIRST-AID MEASURES

IN CASE OF EYE CONTACT Flush with copious amounts of water for 15 minutes, separating eyelids with fingers. If irritation persists seek

medical aid.

IN CASE OF SKIN CONTACT Wash with soap & water for 15 minutes. If irritation persists seek medical aid.

IF SWALLOWED Call a physician. Wash out mouth with water. Do not induce vomiting without medical advice.

IF INHALED Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a

physician.

MEDICAL ATTENTION AND SPECIAL

TREATMENT

NOTES

Get emergency medical help.

SYMPTOMS CAUSED BY EXPOSURE Not expected to present a significant hazard under anticipated conditions of normal use.

SECTION 5: FIREFIGHTING MEASURES

SPECIFIC HAZARDS ARISING FROM

THE CHEMICAL

Not applicable

FLAMMABLE PROPERTIES

May be combustible at high temperature

HAZARDOUS COMBUSTION PRODUCTS

Under fire conditions, hazardous fumes will be present.

SUITABLE & UNSUITABLE EXTINGUISHING MEDIA

Small fire: dry chemical, CO2 or water spray. Large fire: dry chemical, CO2, alcohol resistant foam or water

spray. Do not get water inside containers.

PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

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Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.



METHODS & MATERIAL FOR

CONTAINMENT

CLEANUP PROCEDURE

On land, sweep or shovel into suitable containers. Minimize generation of dust.

Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves. Stop leak if you can do it without risk. Prevent entry into waterways, sewers, basements or confined areas. Shut off all sources of ignition. Evacuate the area. If necessary, employ water fog to disperse the vapors. Absorb the matter with compatible vermiculite or other absorbing material. Place in a suitable container and retain for disposal. Ventilate and clean

the affected area. Do not flush into sewerage system or to drains.

REFERENCE TO OTHER SECTIONS

See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING Do not inhale. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Wash

thoroughly after handling. Store away from incompatible materials, in a well-ventilated area. Eliminate all sources of ignition. Store in accordance with local regulations. Do not store in unlabeled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Use

appropriate containment to avoid environmental contamination.

CONDITIONS FOR SAFE STORAGE Store away from incompatible materials, in a well-ventilated area. Eliminate all sources of ignition. Store in

accordance with local regulations. Do not store in unlabeled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Use appropriate containment to avoid

environmental contamination.

STORAGE CONDITIONS Store in original container, tightly sealed, protected from direct sunlight and moisture.

SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

Chemical Name: MAGNESIUM SULFATE (Heptahydrate) CAS #: 10034-99-8

	Country	Limit value-8 hours		Limit value-Short Term		IDLH	REL	Advisory	Notes
		ppm	mg/m³	ppm	mg/m³				
OSHA	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
ACGIH	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
NIOSH	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
WEEL	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
HSIS	Australia	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
HSE	UK	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	Add Country	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A

N/L = Not listed; N/A = Not Available

PELs are 8-hour TWAs = Limit value - Eight hours

Ceiling or Short-Term TWA = STEL = Limit value - Short term

EXPOSURE GUIDELINES

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Consult local authorities for provincial or state exposure limits. Particulates not otherwise regulated, respirable fraction: 5 mg/m³

PERSONAL PROTECTIVE EQUIPMENT

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by WHMIS or OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. Skin: Wear appropriate gloves to prevent skin exposure. Clothing: Wear appropriate protective clothing to minimize contact with skin. Respirators: Follow WHMIS or OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. Thermal Hazards: For products representing a thermal hazard, appropriate Personal Protective Equipment should be used.



SPECIFIC ENGINEERING CONTROLS

Adequate mechanical ventilation. Fumehood, eye wash station, and safety shower.

BIOLOGICAL MONITORING

Not available

CONTROL BANDING

Not available

NOTES

ACGIH:TLV Inhalable: 10 mg/m³ / Respirable: 3 mg/m³. OSHA: PEL Total: 15mg/m3 / Respirable: 5 mg/m3.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE Solid

DESCRIPTION

Small, colorless crystals, usually needle-like. It effloresces in warm, dry air.

SOLUBILITY

Freely soluble in water; freely (and slowly) soluble in glycerin; very soluble in boiling water; sparingly soluble in alcohol.

ODOR

Odorless

FLAMMABILITY

May be combustible at high temperature

AUTO-IGNITION	
TEMPERATURE	

Not available

BOILING POINT

Not available

DECOMPOSITION **TEMPERATURE**

1124°C, 2055.2°F

EVAPORATION RATE

Not available

Not available

Not available

1.67 (20°C)

EXPLOSIVE LIMIT

Not available

FLASH POINT

Not available

log P

(OCTANOL-WATER)

LOWER FLAMMABLE/ EXPLOSIVE LIMIT(S)

Not available

MELTING/FREEZING POINT

1124°C. 2055.2°F

PARTICLE CHARACTERISTICS **OXIDIZING PROPERTY**

Not available

рΗ

(decomposes) 5.0 - 9.2

RELATIVE DENSITY

(WATER = 1)

SPECIFIC GRAVITY

1.76 g/cm3

UPPER FLAMMABLE/ **EXPLOSIVE LIMIT(S)**

Not available

VAPOR DENSITY

(AIR = 1)

Not available

VAPOR PRESSURE

< 0.0000001 kPa (25°C)

VISCOSITY

Not available

The physical data presented above are typical values and should not be construed as a specification.

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY

Not established

CHEMICAL STABILITY

Stable under recommended storage conditions

INCOMPATIBLE MATERIALS

Strong oxidizing agents. Metal hydrides and other water reactive materials

HAZARDOUS DECOMPOSITION **PRODUCTS**

Toxic fumes of carbon monoxide, carbon dioxide, magnesium oxide, sulfur dioxide, sulfur trioxide and other

gases may occur

HAZARDOUS POLYMERIZATION POSSIBLITY OF HAZARDOUS

Will not occur

REACTION

Not established

CONDITIONS TO AVOID

Moisture, sunlight and extreme temperatures

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SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY Oral: Rat: LD50: (mg/kg): Not available

> Dermal: Rabbit LD50: (mg/kg): Not available Inhalation: Rat: LC50: (mg/L/4hr): Not available

SKIN CORROSION/IRRITATION Due to lack of data the classification is not possible.

May cause irritation.

SERIOUS EYE DAMAGE/EYE Based on available data, the classification criteria are not met.

IRRITATION When tested for primary irritation potential, this material caused mild eye irritation.

May irritate eyes.

RESPIRATORY SENSITIZATION Due to lack of data the classification is not possible.

SKIN SENSITIZATION Due to lack of data the classification is not possible.

GERM CELL MUTAGENICITY Due to lack of data the classification is not possible.

CARCINOGENICITY **OSHA** MAGNESIUM SULFATE is not listed.

> NTP MAGNESIUM SULFATE is not listed. **IARC** MAGNESIUM SULFATE is not evaluated.

California This product does not contain any chemicals known to the State of California to cause

Proposition 65 cancer, birth defects, or any other reproductive harm.

ADDITIONAL CARCINOGENICITY

INFORMATION

Due to lack of data the classification is not possible.

REPRODUCTIVE TOXICITY Based on available data, the classification criteria are not met.

> When magnesium sulfate is administered intravenously to pregnant women in the treatment of eclampsias, the effects of magnesium on the newborn may include decreased muscle tone or reflexes, low blood pressure, and respiratory depression. Problems have not been documented with normal intakes of recommended amounts of

oral magnesium sulfate.

SPECIFIC TARGET ORGAN TOXICITY -

SINGLE EXPOSURE

Due to lack of data the classification is not possible.

SPECIFIC TARGET ORGAN TOXICITY -

REPEATED EXPOSURE

Due to lack of data the classification is not possible.

ASPIRATION HAZARDS

Based on available data, the classification criteria are not met.

SIGNS AND SYMPTOMS OF

EXPOSURE

ROUTES OF EXPOSURE:

Oral, Dermal, Inhalation, Eye contact

EARLY ONSET SYMPTOMS RELATED TO EXPOSURE:

Not available

DELAYED HEALTH EFFECT FROM EXPOSURE:

Not available

Symptoms related to the physical, chemical, and toxicological characteristics:

Abdominal pain. Vomiting. Diarrhea. Flushing. Low blood pressure. Sweating. Slow heartbeat. Paralysis. Coma.

POTENTIAL HEALTH EFFECTS Inhalation Inhalation of dusts may cause respiratory irritation.

> Ingestion Expected to be a low ingestion hazard. May cause temporary irritation of the throat,

> > stomach, and gastrointestinal tract.

Skin Dust or powder may irritate the skin.

Causes mild eye irritation. Dust or powder may irritate eye tissue. If irritation should occur, it Eyes

is expected to be transient.



SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY EC50: 48 Hr: Crustacea: (Tubifex tubifex) (mg/L): 149.6 - 191.36

LC50: 96 Hr: Fish: (Pimephales promelas) (mg/L): 2610 - 3080

EC50: 72 Hr: Algae: (mg/L): Not available

PERSISTENCE AND DEGRADABILITY

BIOACCUMULATIVE POTENTIAL

Not available
Not available

MOBILITY IN SOIL

Water solubility: 71g/100 mL (20°C); 91g/100 mL (40°C)

OTHER ADVERSE EFFECTS

Not available

This product is not intended to be released into the environment

SECTION 13: DISPOSAL CONSIDERATIONS

DISPOSAL METHODS Dispose of in accordance with federal / local laws and regulations. Avoid release into the environment.

SECTION 14: TRANSPORT INFORMATION

UN PROPER SHIPPING NAME Not dangerous good
UN NUMBER Not applicable
CLASS Not applicable

PACKING GROUP

Not applicable

AUSTRALIA

HAZCHEM Not Applicable

EU

TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE

IBC CODE

Not Listed

ENVIRONMENTAL HAZARDS Not available SPECIAL SHIPPING INFORMATION Not applicable

SECTION 15: REGULATORY INFORMATION

UNITED STATES REGULATIONS

Chemical Name & CAS	CERCLA 40 CFR Part 302.4	SARA (Title III) 40 CFR Part 372.65	EPA 40 CFR Part 355		Right-to-know Pennsylvania New Jersey Massachusetts			California Prop 65
MAGNESIUM SULFATE	N/L	N/L	N/L	N/L	N/L	N/L	N/L	N/L
(Hentahydrate) 10034-99-8								

N/L = Not Listed; X = Listed

AUSTRALIAN REGULATIONS

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Chemical Name & CAS	Poisons and Therapeutic Goods	Therapeutic Goods Act	Code of Practices - Illicit Drug Precursors	Poisons Standard	Work Health and Safety Regulations	Inventory of Industrial Chemcials
MAGNESIUM SULFATE	N/L	Listed as Schedule	N/L	Listed*	N/L	N/L
(Heptahydrate) 10034-99-8		3*				

N/L = Not Listed

EU REGULATIONS

Chemical Name & CAS	REACH ANNEX XVII	REACH ANNEX XIV	EC 1005/2009	EC 850/2004	EC 1107/2009	PIC - Prior Informed Consent Regulation	EC 2012/18
MAGNESIUM SULFATE (Heptahydrate) 10034-99-8	N/L	N/L	N/L	N/L	N/L	N/L	N/L

N/L = Not Listed; X = Listed

Any EU regulation not listed above is not applicable to this product.

SUBJECT TO INTERNATIONAL

AGREEMENT

Not applicable

NOTES *Listed as Magnesium Sulfate

SECTION 16: OTHER INFORMATION

REFERENCES

ABBREVIATIONS AND ACRONYMS

Available upon request

ACGIH - American Conference of Governmental Industrial Hygienists; AIHA WEEL - American Industrial Hygiene Association Workplace Environment Exposure Levels; CAESAR - Computer Assisted Evaluation of industrial chemical Substances According to Regulations; CAS - Chemical Abstract Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; EC50 - Effective Concentration, 50%; EPA - Environmental Protection Agency; GHS - Global Harmonized System; HMIS - Hazardous Materials Information System; HSE - Health and Safety Executive; HSIS - Hazardous Substances Information System; IARC - International Agency for Research on Cancer; IDLH - Immediately Dangerous to Life or Health; IRFMN - Ready Biodegradability Model; ISS - Instituto Superiore Sanità; LC50 - Lethal Concentration, 50%; LD50 - Lethal Dose, 50%; MSHA - Mine Safety and Health Administration; NIOSH - National Institute for Occupational Safety and Health; NTP - National Toxicology Program; OSHA PEL - Occupational Safety & Health Administration Permissible Exposure Limits; QSAR - Quantitative Structure-activity relationship; REL - Recommended Exposure Limit; SARA - Superfund Amendments and Reauthorization Act; STEL - Short Term Exposure Limit; TLV - Threshold Limit Value; TWA - Time Weighted Average; WHMIS - Workplace Hazardous Materials Information System

LAST REVISION

03/2024

SUPERSEDES

05/2023

For a list of changes to the SDS since the last version, please communicate with MEDISCA at www.medisca.com

DISCLAIMER

This document was created in accordance with OSHA, Safe Work Australia and WHMIS regulations. 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. MEDISCA® shall not be held liable for any damage resulting from handling or from contact with the above product. Recipients of the product must take responsibility for observing existing laws and regulations.



SUPPLEMENTARY INFORMATION

For all country specific requirements not outlined on this Safety Data Sheet, please request Supplementary Page to this Safety Data Sheet.