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Section 1 Chemical Product and Company Identification

23CO 901 Janesville Ave. P.O. Box 901 Fort Athinson, WI 53538-0901

SA09601 SA 09400

CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300 For laboratory use only. Not for drug, food or household use

Product

MAGNESIUM SULFATE, HEPTAHYDRATE

Synonyms

Epsom Salts

Section 2 Hazards Identification

This substance or mixture has not been classified as hazardous according to the Globally Harmonized System (GHS) of Classification and Labeling of Chemicals.

Signal word: None

Pictograms: No symbol required Target organs: None knows

GHS Classification: Not classified

GHS Label information: Hazard statement: Not classified Precautionary statement: Not classified

Supplementary Information:

Do not breathe dust. Do not get in eyes, on skin, or on clothing. Weer protective gloves/protective clothing/eye protection/face protection. Wash hands thoroughly after handling. Get medical attention if you feel unwell,

Ca Prop 65: This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.

Chemical Name	CAS#	%	EINECE
Magnesium sulfate	10034-99-8	100%	231-298-2 (anhydrous)

Section 4 First Aid Measures

INGESTION: MAY BE HARMFUL IF SWALLOWED. Cell physician or Poison Control Center immediately, Induce vomiting only if advised by appropriate medical personnel Never give anything by mouth to an unconscious person.

INHALATION: MAY BE HARMFUL IF INHALED. MAY CAUSE RESPIRATORY TRACT IRRITATION. Remove to fresh sir. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: MAY CAUSE EYE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower cyalids occasionally. Get Immediate medical attention.

SKIN ABSORPTION: MAY BE HARMFUL IF ABSORBED THROUGH SKIN MAY CAUSE SKIN IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Section 5 Fire Fighting Measures

Sultable Extinguishing Media: Use any media suitable for extinguishing supporting fire

Protective Actions for Fire-fighters: in fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

Specific Hazards: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Section 8 Accidental Release Measures

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways

Containment and Cleanup: Recover for reuse if not contaminated. Sweep or vacuum up and place in a sulfable container for proper disposal. Wash spill area with soap and

Precautions for Safe Handling: Read label on container before using Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale dusts. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before neuse.

Conditions for Safe Storage: Store in a cool, dry, well-ventilated area away from incompatible substances

Exposure Controls / Personal Protection

Chemical Name Exposure Limits:

Magnesium sulfate

ACGIH (TLV) None established

OSHA (PEL) None established

NICSH (REL) None established

Marine pollutant: No

Supercedes: November 4, 2015

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or epron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If dusty conditions prevail, work in fume hood or wear a NIOSH/MSHAapproved respirator.

Section 8 Physical & Chemical Properties

Appearance: Solid, White crystalline powder Odor: No odor. Odor threshold: Data not available.

pH: Data not available. Melting / Freezing point: Data not available Boiling point: Data not available

Flash point: Data not available

Evaporation rate (= 1): Data not available Flammability (solid/gas): Data not available. Explosion limits: Lower / Upper: Data not available Vapor pressure (mm Hg): Data not available Vapor density (Air = 1): Data not available Relative density (Specific gravity): 2.7 Solubility(les): Appreciable in water

Partition coefficient: Data not available Auto-ignition temperature: Date not available Decomposition temperature: Data not available Viscosity: Data not available

Molecular formula: MgSO₄·7H₂O Molecular weight: 248 48

Section 10 Stability & Reactivity

Chemical stability: Stable Hazardous polymerization: Will not occur.

Conditions to avoid: Excessive temperatures and heat. Protect from moisture

Incompatible materials: None known.

Hazardous decomposition products: Sulfur oxides.

Section 11 Toxicological Information

Acute toxicity: Data not available

Skin corresion/irritation: Data not available Serious eye demage/irritation: Data not available Respiratory or skin sensitization: Data not available Germ cell mutagenicity: Data not available

Carcinogenity: Data not available

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA

Reproductive toxicity: Data not available STOT-single exposure: Data not available STOT-repeated exposure: Dats not available Aspiration hazard: Date not available Potential health effects:

Inhalation: May cause respiratory irritation.

Ingestion: Ingestion may cause nauses, vomiting and diarrhes

Skin: Contact with skin may cause initation. Eyes Contact with eyes may cause Initation.

Signs and symptoms of exposure: To the best of our knowledge the chemical, physical and toxicological properties have not been thoroughly investigated. Specific data is

not available. Exercise appropriate procedures to minimize potential hazards. Additional information: RTECS #: Data not available.

Ecological Information

Toxicity to fish: Gambusia affinis (fish, fresh water), LC50: 15,500 mg/L/24 hours

Toxicity to daphnia and other equatic invertebrates: Daphnia magna (Crustaces), EC50: 1,700 mg/L/24 hours

Toxicity to algae: Scenedasmus subspicatus (Algae), EC50: 2,700 mg/L/72 hours

Persistence and degradability: No data available Bioaccumulative potential: No data available

Mobility in soil: No data available PBT and vPvB assessment: No data available Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal

Section 13 Disposal Considerations

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

Transport Information (US DOT / CANADA TDG) Section 14

UN/NA number: Not applicable

Shipping name: Not Regulated Reportable Quantity: No

Hazard class: Not applicable Packing group: Not applicable Exceptions: Not applicable 2016 ERG Guide # Not applicable

Section 15 Regulatory Information A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list

CERLCA (RQ) TSCA Component RCRA code DSL NOSL Magnesium sulfate Listed Not listed Not listed Listed Not listed

Section 16 Other Information

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to disternifying an experience of the safety and health of employers. NTP. National Toccology Program IARC Information for Research on Cancer, OSHA, Occupational Safety and Health Administration. STOT Specific Target Organ Toxicity, SE, Single Exposure, RE, Repeated Exposure, ERG, Emergency Response Guidebook.

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