

SAFETY DATA SHEET

Section I: Company and Chemical Information

Epicentre® an Illumina® Company
5602 Research Park Blvd, MADISON WI 53719
Emergency Tel: 608-258-3080 or 800-284-8474 7:30-4:30 Central Time Zone

Product: Magnesium chloride a component of the ScriptSeq™ v2 RNA Fragmentation Solution, Ampligase® Ligase, MasterAmp™ *Tfl*, *Tth* and *Taq* DNA Polymerase products, TAQXpedite™ PCR System, Thermostable RNA Ligase, MasterAmp™ RT-PCR Kits, MasterAmp™ PCR Optimization Kits and 2X PCR PreMixes and Poly(A) Polymerase Tailing Kits.

Section II: Composition/Information on Ingredients

<u>Component</u>	<u>CAS No</u>	<u>Sara 313</u>
Magnesium Chloride hexahydrate	7791-18-6	No

Chemical Formula: MgCl₂•6H₂O
0.1-5% concentration

Section III: Hazards Identification

Emergency Overview. Caution: avoid contact and inhalation. Target organ(s): central nervous system & kidneys.

HMIS Rating Health 1* Flammability: 0 Reactivity: 1

NFPA Rating Health 1 Flammability: 0 Reactivity: 1

*For additional information on toxicity refer to section 11. Additional chronic hazards present.

Section IV: First Aid Measures

Oral exposure: If swallowed, wash mouth with water provided person is conscious. Call a physician.

Inhalation exposure: If inhaled, remove to fresh air. If breathing is difficult, call a physician.

Dermal exposure: In case of contact, wash skin with soap and copious amounts of water.

Eye exposure: In case of eye contact, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Section V: Fire Fighting Measures

Autoignition point: N/A

Extinguishing Media: water spray, carbon dioxide, dry chemical, an appropriate foam

Fire Fighting Protective Equipment: Wear full protective equipment, including a self-contained breathing apparatus to prevent contact with eyes and skin.

Specific hazards: Emits toxic fumes under fire conditions.

Section VI: Accidental Release Measures

Personal Precautions: Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

Clean up method: Wash to drain. Ventilate area and wash spill site after material removal is complete.

Section VII: Handling and Storage

Handling: User exposure: Avoid inhalation. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure.

Storage: Suitable: Keep tightly closed. Store in a cool dry place.

Section VIII: Exposure Controls/PPE

Engineering Controls: Use in a chemical fume hood. Safety shower and eye bath

Hand protection: Chemically resistant gloves.

Eye protection: Chemical safety goggles

Respiratory Protection: government approved respirator.

General Hygiene Measures: Avoid contact with eyes skin and clothing. Wash thoroughly after handling.

Section IX: Physical/Chemical Properties

Dissolved solid (liquid)

Molecular Weight: 203.31

pH: N/A

Boiling Point: N/A

Explosion Limits: N/A

Vapor Pressure (mm Hg): N/A

Vapor Density (air = 1): N/A

Solubility in water: Miscible

Appearance and odor: Clear, colorless liquid.

Specific Gravity: 1.57 g/cm³

Melting Pt.: N/A

Evaporation Rate: N/A.

Section X: Stability and Reactivity

Stability: stable under normal conditions

Materials to avoid: Strong oxidants

Hazardous thermal decomposition products: Hydrogen chloride gas, magnesium oxide.

Hazardous polymerization: Will not occur.

Section XI: Toxicological Information

Route of exposure: May cause skin irritation

Skin absorption: May be harmful if absorbed through skin.

Eye Contact: May cause eye irritation

Inhalation: May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.

Ingestion: May be harmful if swallowed.

Target organs: Central nervous system, kidneys, GI system.

Signs and symptoms of exposure: Can cause central nervous system depression. Exposure can cause: Stomach pains, vomiting, diarrhea. Not all toxicological properties are known.

RTECS #: OM2975000

Toxicity data:

Oral: - rat 8100 mg/kg (LD50)

Oral: mouse: 7,600 mg/kg (LD50)

Remarks: Behavioral: somnolence (general depressed activity)

Behavioral: Excitement.

Intraperitoneal: mouse 775 mg/kg (LD50)

Remarks: Behavioral: somnolence (general depressed activity)

Behavioral: Excitement.

Chronic Exposure: Mutagen

Species	Dose	Cell type	Mutation test
Hamster	12 g/L	lung	cytogenetic analysis
Hamster	12 g/L	lung	cytogenetic analysis

Section XII: Ecological Information

No data available.

Section XIII: Disposal Considerations

Use appropriate method for disposal according to federal, state, and local environmental regulations. This material may be burned in a chemical incinerator equipped with an afterburner and scrubber.

Section XIV: Transport Information

DOT

Proper Shipping Name: none

This substance is considered non-hazardous for transport

IATA

Non-hazardous for air transport.

Section XV: Regulatory Information

US Classification and Label Text:

US Statements: Caution: avoid contact and inhalation. Target organ(s): central nervous system and kidneys.

United States Regulatory Information

SARA listed: No

Canada Regulatory Information:

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR: DSL: No NDSL: No

Section XVI: Other Information

For R&D use only. Not for drug, household or other uses.

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