



HI-VALLEY CHEMICAL

LABORATORY PRODUCTS

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SAFETY DATA SHEET

Hi Valley Chemical

Magnesium Chloride

1 PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: Magnesium Chloride
SDS Number: R-096
Revision Date: 8/15/2016
CAS Number: 786-30-3
Chemical Formula: MgCl₂
Supplier Details: High Valley Products, Inc.
1134 West 850 North
Centerville, Utah 84014
Emergency: PERS: 800-633-8253
Phone: 801-295-9591
Email: sales@hvchemical.com
Web: www.hvchemical.com

2 HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):
No GHS Classifications Indicated

GHS Label Elements, Including Precautionary Statements

GHS Signal Word: **NONE**

No GHS pictograms indicated for this product

GHS Hazard Statements:

No GHS hazards statements indicated

GHS Precautionary Statements:

No GHS precautionary statements indicated

3 COMPOSITION/INFORMATION OF INGREDIENTS

Ingredients:

Cas#	%	Chemical Name
7786-30-3		Magnesium chloride (MgCl ₂)

4 FIRST AID MEASURES

Inhalation: If inhaled, move person to fresh air. If not breathing, give artificial respiration. Consult a physician.
Skin Contact: Wash with soap and water.
Eye Contact: Flush eyes with water as a precaution.
Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5 FIRE FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture
No data available

Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

Further information
No data

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ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Wear respiratory protection. Avoid dust formation. Avoid breathing dust, vapours, mist or gas. Ensure adequate ventilation.

Environmental precautions:

Do not let product enter drains.

Methods and materials for containment and cleaning up:

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

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HANDLING AND STORAGE

Handling Precautions:

Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed.

Storage Requirements:

Keep container tightly closed. Store in cool/dry area.

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EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal Protective Equipment:

Magnesium chloride (MgCl₂) (7786-30-3) []

Personal protective equipment

Eye/face protection: Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact: Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min
Material tested: Dermatril (KCL 740 / Aldrich Z677272, Size M)

Splash contact: Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min
Material tested: Dermatril (KCL 740 / Aldrich Z677272, Size M) data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection: Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection: Respiratory protection is not required. Where protection from nuisance levels of

dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure: Do not let product enter drains.

Magnesium chloride (MgCl₂) (7786-30-3) [] : no data available

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PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Crystalline
Physical State:	Solid
Odor:	No data available
Odor Threshold:	No data available
Solubility:	468.7 g/l at 20 °C (68 °F) - soluble
Spec Grav./Density:	2.32
Viscosity:	No data available
Boiling Point:	No data available
Freezing/Melting Pt.:	714 °C (1,317 °F)
Flash Point:	No data available
Partition Coefficient:	No data available
Vapor Pressure:	No data available
Vapor Density:	No data available
pH:	No data available
Evap. Rate:	No data available
Auto-Ignition Temp:	No data available
Decomp Temp:	No data available
UFL/LFL:	No data available

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STABILITY AND REACTIVITY

Chemical Stability:	Stable under recommended storage conditions.
Conditions to Avoid:	Avoid moisture
Materials to Avoid:	Strong Oxidizing Agents.

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TOXICOLOGICAL INFORMATION

Magnesium chloride (MgCl₂) (7786-30-3) []

Information on toxicological effects

Acute toxicity:

LD50 Oral - rat - female - > 5,000 mg/kg (OECD Test Guideline 423)

Inhalation: no data available

LD50 Dermal - rat - male and female - > 2,000 mg/kg (OECD Test Guideline 402)

Skin corrosion/irritation: no data available

Serious eye damage/eye irritation: Eyes - rabbit Result: No eye irritation - 72 h (OECD Test Guideline 405)

Respiratory or skin sensitisation: Maximisation Test - guinea pig Result: Does not cause skin sensitisation. (OECD Test Guideline 406)

Germ cell mutagenicity: mouse lymphocyte Result: negative

Carcinogenicity:

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.

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

ACGIH.

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.

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: no data available

Specific target organ toxicity - single exposure: no data available

Specific target organ toxicity - repeated exposure: no data available

Aspiration hazard: no data available

Additional Information:

Repeated dose toxicity - rat - male and female - No observed adverse effect level - > 1,000 mg/kg RTECS: OM2800000

Central nervous system depression, Vomiting, Diarrhoea, Abdominal pain, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Stomach - Irregularities - Based on Human Evidence

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ECOLOGICAL INFORMATION

Magnesium chloride (MgCl₂) (7786-30-3) []

Information on ecological effects

Toxicity:

Toxicity to fish static test LC₅₀ - Pimephales promelas (fathead minnow) - 2,119.3 mg/l - 96 h.

Toxicity to daphnia and static test LC₅₀ - Daphnia magna (Water flea) - 548.4 mg/l - 48 h.

other aquatic invertebrates

Toxicity to algae Growth inhibition EC₅₀ - Desmodesmus subspicatus (Scenedesmus: subspicatus) - > 100 mg/l - 72 h (OECD Test Guideline 201)

Toxicity to bacteria Respiration inhibition EC₅₀ - Sludge Treatment - > 900 mg/l - 3 h. (OECD Test Guideline 209)

Persistence and degradability: no data available

Bioaccumulative potential: no data available

Mobility in soil: no data available

Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: no data available

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DISPOSAL CONSIDERATIONS

Dispose of in accordance with local regulations.

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TRANSPORT INFORMATION

Non DOT regulated.

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REGULATORY INFORMATION

Component (CAS#) [%] - CODES

Magnesium chloride (MgCl₂) (7786-30-3) [n/a%] TSCA

Regulatory CODE Descriptions

TSCA = Toxic Substances Control Act

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OTHER INFORMATION

Disclaimer:

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