# 1. Product and Company Identification

Product identifier

Other means of identification

Magnesium Chloride Aqueous Solution

Recommended use

Recommended restrictions

Manufacturer

Dust supression, deicing, general industrial, and speciality uses.

None known.

# CHEMTREC CANUTEC

### 2. Hazards Identification

Physical hazards

Health hazards

Environmental hazards

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**OSHA** defined hazards

Not classified. Not classified.

Not classified.

Not classified.

Label elements

Hazard symbol

Signal word

None.

Hazard statement

The substance does not meet the criteria for classification.

Precautionary statement

Prevention

Observe good industrial hygiene practices.

Response

Wash hands after handling.

Storage

Store away from incompatible materials.

Disposal

Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise

classified (HNOC)

Supplemental information

None known.

Not applicable.

# 3. Composition/Information on Ingredients

#### **Mixture**

Composition comments

The criteria for listing components in this section are: Carcinogens, Respiratory Sensitizers, Mutagens, Teratogens and Reproductive toxins are listed when present at 0.1% or greater; components which are otherwise hazardous according to WHMIS/OSHA are listed when present at 1.0% or greater. Non hazardous components are not listed. The products pertaining to this SDS have various proportions of components which do not meet the listing criteria.

#### 4. First Aid Measures

Inhalation

If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.

Skin contact

Rinse skin with water/shower. Get medical attention if irritation develops and persists.

Eye contact

Rinse with water. Get medical attention if irritation develops and persists.

Ingestion

Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately.

symptoms/effects, acute and , delayed Treat symptomatically. Indication of immediate medical attention and special treatment needed General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. 5. Fire Fighting Measures Suitable extinguishing media Treat for surrounding material. None known. Unsuitable extinguishing media During fire, gases hazardous to health may be formed. Specific hazards arising from the chemical Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Special protective equipment and precautions for firefighters Use standard firefighting procedures and consider the hazards of other involved materials. Fire-fighting equipment/instructions Cool containers exposed to flames with water until well after the fire is out. Specific methods No unusual fire or explosion hazards noted. General fire hazards May include and are not limited to: Hydrogen chloride. Chlorine gas. Oxides of magnesium. Hazardous combustion products **Explosion data** Sensitivity to mechanical Not available. impact Not available. Sensitivity to static discharge 6. Accidental Release Measures Keep unnecessary personnel away. For personal protection, see section 8 of the SDS. Personal precautions, protective equipment and emergency procedures Methods and materials for Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with containment and cleaning up non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground. **Environmental precautions** 7. Handling and Storage Avoid contact with eyes, skin and clothing. Use good industrial hygiene practices in handling this Precautions for safe handling material. Keep container tightly closed in a cool, dry and well-ventilated place. Store away from incompatible Conditions for safe storage, materials (see Section 10 of the SDS). including any incompatibilities 8. Exposure Controls/Personal Protection No exposure limits noted for ingredient(s). Occupational exposure limits No biological exposure limits noted for the ingredient(s). **Biological limit values** TWA PEL: No specific limits have been established for magnesium chloride (a soluble Appropriate engineering substance). As a guideline, OSHA (United States) has established the following limits which are controls generally recognized for inert or nuisance dust. Particulates Not Otherwise Regulated (PNOR): 5mg/cu.m. Respirable Dust 8-Hour TWA PEL, 15mg/cu.m. Total Dust 8-Hour TWA PEL. TWA TLV: No specific limits have been established for magnesium chloride (a soluble substance). As a guideline, ACGIH (United States) has established the following limits which are generally recognized for inert or nuisance dust. Particulates (insolubles) Not Otherwise Classified (PNOC): 10mg/cu.m. Inhalable Particulate 8-Hours TWA TLV, 3mg/cu.m. Respirable Particulate TWA TLV. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne

levels below recommended exposure limits. If user operations generate dust, fumes, or mist, use

ventilation to keep exposure to airborne contaminants below the exposure limit.

Individual protection measures, such as personal protective equipment

Eye/face protection

Safety glasses

Hand protection

Rubber gloves. Confirm with a reputable supplier first.

Other

As required by employer code.

Respiratory protection

Where exposure guideline levels may be exceeded, use an approved NIOSH respirator or

NIOSH-approved filtering facepiece.

Thermal hazards

Not applicable.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

### 9. Physical and Chemical Properties

Appearance Physical state

Liquid Liquid.

Form

Crystalline.

Color

Colorless to Light amber

Odor

Odorless

Odor threshold

Not available.

Нq

7 - 9 (5% solution)

Melting point/freezing point

-1 °F (-18.33 °C) (30% solution, periodically mixed to ensure homogeneity)

Initial boiling point and boiling range

Not applicable

225 °F (107.22 °C)

Pour point

Not available.

Specific gravity

1.24 - 1.34 (H2O = 1)

Partition coefficient

Not available.

(n-octanol/water)

Flash point

Not available. Not available. Not applicable.

Evaporation rate Flammability (solid, gas)

Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

(%)

Not available.

Explosive limit - lower (%)
Explosive limit - upper (%)

Not available.

Vapor pressure

Not available.

Vapor density Relative density Not available.

Solubility/ice)

Not available.

Solubility(ies)

Easily soluble in cold water, hot water, methanol, acetone.

Auto-ignition temperature

Decomposition temperature

Not available. Not available.

Viscosity Not available.

### 10. Stability and Reactivity

Reactivity

Reactive with oxidizing agents, acids, metals in presence of moisture.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

**Chemical stability** 

Material is stable under normal conditions.

Conditions to avoid

Contact with incompatible materials.

Incompatible materials

Acids. Strong oxidizing agents. Metals.

Hazardous decomposition products

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May include and are not limited to: Hydrogen chloride. Chlorine gas. Oxides of magnesium.

### 11. Toxicological Information

Information on likely routes of exposure

Ingestion

Expected to be a low ingestion hazard.

No adverse effects due to skin contact are expected. Skin contact

Eyé contact Direct contact with eyes may cause temporary irritation.

Symptoms related to the physical, chemical and toxicological characteristics Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Not classified. **Acute toxicity** 

Prolonged skin contact may cause temporary irritation. Skin corrosion/irritation

Not available. **Exposure minutes** Not available. Erythema value Not available. Oedema value

Serious eye damage/eye

irritation

value

Direct contact with eyes may cause temporary irritation.

Not available. Corneal opacity value Iris lesion value Not available. Not available. Conjunctival reddening

Conjunctival oedema value Not available.

Not available. Recover days

Respiratory or skin sensitization

Not classified. Respiratory sensitization

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects. Not classified. Teratogenicity

Not classified. Specific target organ toxicity single exposure

Specific target organ toxicity -

repeated exposure

Not classified.

Not classified. **Aspiration hazard Chronic effects** Not classified.

This product has no known adverse effect on human health. **Further information** 

Name of Toxicologically Synergistic Products

Not available.

### 12. Ecological Information

**Ecotoxicity** May be harmful to freshwater aquatic species and to plants that are not saline tolerant.

No data is available on the degradability of this product. Persistence and degradability

Bioaccumulative potential No data available. No data available. Mobility in soil Mobility in general Not available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

#### 13. Disposal Considerations

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Disposal instructions

Dispose in accordance with all applicable regulations. Local disposal regulations

The waste code should be assigned in discussion between the user, the producer and the waste Hazardous waste code

disposal company.

Dispose of in accordance with local regulations. Empty containers or liners may retain some Waste from residues / unused product residues. This material and its container must be disposed of in a safe manner (see: products

Disposal instructions).

### 14. Transport Information

### U.S. Department of Transportation (DOT)

Not regulated as dangerous goods.

Transportation of Dangerous Goods (TDG - Canada)

Not regulated as dangerous goods.

# 15. Regulatory Information

Canadian federal regulations

This product has been classified in accordance with the hazard criteria of the Controlled Products

Regulations and the SDS contains all the information required by the Controlled Products

Regulations.

WHMIS status

Not Controlled

#### US federal regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Not listed.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely

hazardous substance

SARA 311/312 Hazardous

chemical

No

No

SARA 313 (TRI reporting)

Not regulated.

#### Other federal regulations

Safe Drinking Water Act

(SDWA)

Not regulated.

Food and Drug Administration (FDA) Total food additive Direct food additive GRAS food additive

**US state regulations** 

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

### US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed

US. Massachusetts RTK - Substance List

Not regulated.

US. Pennsylvania RTK - Hazardous Substances

Not regulated.

US. Rhode Island RTK

Not regulated.

United States & Puerto Rico

# Inventory status

Country(s) or region Inventory name

ntory name On inventory (yes/no)\*

Canada Domestic Substances List (DSL)

Yes

Canada Non-Domestic Substances List (NDSL)

No Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

Toxic Substances Control Act (TSCA) Inventory