



**CASCADE  
COLUMBIA  
DISTRIBUTION  
COMPANY**

COMPANY IDENTITY: Cascade Columbia Distribution Company  
 PRODUCT IDENTITY: MAGNESIUM CHLORIDE 30% SOLUTION  
 SDS NUMBER: MgCl2-30

SDS DATE: 05/18/2015  
 ORIGINAL: 05/18/2015

**SAFETY DATA SHEET**

This Safety Data Sheet conforms to ANSI Z400.5, and to the format requirements of the Global Harmonizing System.  
 THIS SDS COMPLIES WITH 29 CFR 1910.1200 (HAZARD COMMUNICATION STANDARD)  
 IMPORTANT: Read this SDS before handling & disposing of this product.  
 Pass this information on to employees, customers, & users of this product.

**SECTION 1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER**

PRODUCT IDENTITY: MAGNESIUM CHLORIDE 30% SOLUTION  
 SYNONYM: None  
 PRODUCT USES: Chemical Processing

COMPANY IDENTITY: Cascade Columbia Distribution Company  
 COMPANY ADDRESS: 6900 Fox Avenue S.  
 COMPANY CITY: Seattle, WA 98108  
 COMPANY PHONE: 1-206-763-2351  
 EMERGENCY PHONES: CHEMTREC: 1-800-424-9300 (USA)  
 CANUTEC: 1-613-996-6666 (CANADA)

**SECTION 2. HAZARDS IDENTIFICATION**

**CAUTION**

**2.1 HAZARD STATEMENTS: (CAT = Hazard Category)**

This product does not meet the Global Harmonizing System criteria for classification.  
 Hazard(s) not otherwise classified: Not Classified.  
 GHS PICTOGRAMS: Not Applicable  
 GHS SIGNAL WORD: Not Applicable  
 GHS HAZARD STATEMENTS: Not Applicable  
 GHS PRECAUTIONARY STATEMENTS: Not Applicable

**2.2 PRECAUTIONARY STATEMENTS:**

**P100s = General, P200s = Prevention, P300s = Response, P400s = Storage, P500s = Disposal**  
 PREVENTION: Observe good industrial hygiene practices. Isolate from extreme heat & flame.  
 RESPONSE: Wash hands after handling.  
 STORAGE: Store away from incompatible materials.  
 DISPOSAL: Dispose of waste & residues following local, regional & national requirements.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

MATERIAL	CAS#	EINECS#	WT %
Magnesium Chloride	7791-18-6	232-094-6	28-32
Water	7752-18-5	231-791-2	68-72

TRACE COMPONENTS: Trace ingredients (if any) are present in < 1% concentration, (< 0.1% for potential carcinogens, reproductive toxins, respiratory tract mutagens, and sensitizers). None of the trace ingredients contribute significant additional hazards at the concentrations that may be present in this product. All pertinent hazard information has been provided in this document, per the requirements of the Federal Occupational Safety and Health Administration Standard (29 CFR 1910.1200), U.S. State equivalents, and Canadian Hazardous Materials Identification System Standard (CPR 4).

**SEE SECTIONS 8, 11 & 12 FOR TOXICOLOGICAL INFORMATION.**

#### SECTION 4. FIRST AID MEASURES

- 4.1 MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE & CHRONIC:  
Direct contact with eyes may cause temporary irritation.
- 4.2 EYE CONTACT:  
For eyes, flush with plenty of water. Get medical attention if irritation develops and persists.
- 4.3 SKIN CONTACT:  
In case of contact with skin immediately remove contaminated clothing.  
Wash with soap & water. If skin irritation develops and persists, get medical attention.
- 4.4 INHALATION:  
Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen and get medical attention.
- 4.5 SWALLOWING:  
Rinse mouth. If ingestion of a large amount does occur, call a poison center immediately
- 4.6 NOTE TO PHYSICIAN:  
Treat symptomatically.

#### SECTION 5. FIRE FIGHTING MEASURES

- 5.1 FIRE & EXPLOSION PREVENTIVE MEASURES:  
Nonflammable.
- 5.2 SUITABLE (& UNSUITABLE) EXTINGUISHING MEDIA:  
Use appropriate extinguishing media for surrounding fire.
- 5.3 SPECIAL PROTECTIVE EQUIPMENT & PRECAUTIONS FOR FIRE FIGHTERS:  
Cool closed containers. Use fog nozzles if water is used.  
Self-contained breathing apparatus and full protective clothing must be worn in case of fire.  
Use standard firefighting procedures and consider the hazards of other involved materials.
- 5.4 SPECIFIC HAZARDS OF CHEMICAL & HAZARDOUS COMBUSTION PRODUCTS:  
May include but not limited to: Hydrogen chloride, chlorine gas, oxides of magnesium.

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

- 6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT & EMERGENCY PROCEDURES:  
Keep unprotected personnel away.  
Wear appropriate personal protective equipment given in Section 8.
- 6.2 ENVIRONMENTAL PRECAUTIONS:  
Keep from entering storm sewers and ditches which lead to waterways.
- 6.3 METHODS & MATERIAL FOR CONTAINMENT & CLEAN-UP:  
SMALL SPILL: Avoid breathing mist. Ensure adequate ventilation.  
Use appropriate tools to put the spilled liquid in a suitable waste disposal container.  
Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.  
LARGE SPILL: Dike and contain. Do not let the product enter drains or waterways. Vacuum or sweep into containers and dispose of according to local and regional authority requirements.

#### SECTION 7. HANDLING AND STORAGE

- 7.1 PRECAUTIONS FOR SAFE HANDLING:  
Avoid contact with eyes, skin and clothing. Wash hands after use. Use good industrial hygiene practices in handling this material.
- 7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:  
Keep in a tightly closed container, stored in a cool, dry, well-ventilated area. Protect against physical damage or contact with water and strong oxidizing agents.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 EXPOSURE LIMITS:

MATERIAL	CAS#	EINECS#	TWA (OSHA)	TLV (ACGIH)
Magnesium Chloride	7791-18-6	232-094-6	None Known	None Known

This product contains no EPA Hazardous Air Pollutants (HAP) in amounts > 0.1%.

### 8.2 APPROPRIATE ENGINEERING CONTROLS:

#### RESPIRATORY EXPOSURE CONTROLS

A respiratory protection program that meets OSHA 29 CFR 1910.134 and ANSI Z86.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

#### VENTILATION

LOCAL EXHAUST: Necessary                      MECHANICAL (GENERAL): Acceptable  
SPECIAL: None                                      OTHER: None  
Please refer to ACGIH document, "Industrial Ventilation, A Manual of Recommended Practices", most recent edition, for details.

### 8.3 INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT:

#### 8.3.1 PERSONAL PROTECTIONS:

##### SKIN PROTECTION:

Wear protective gloves and clean body-covering clothing.

EYE PROTECTION: Use chemical safety goggles and/or full-face shield where splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

##### WORK & HYGIENIC PRACTICES:

Provide readily accessible eye wash stations & safety showers.  
Wash at end of each workshift & before eating, smoking or using the toilet.  
Promptly remove clothing that becomes contaminated. Destroy contaminated leather articles. Launder or discard contaminated clothing.

## SECTION 9. PHYSICAL & CHEMICAL PROPERTIES

APPEARANCE:	Liquid, colorless to light amber
ODOR:	None
ODOR THRESHOLD:	Not Available
pH (Neutrality):	7 - 9 (5% solution)
MELTING POINT/FREEZING POINT:	-18.33 / -1 F (30% solution)
BOILING RANGE (IBP,50%,Dry Point):	107.22 C / 225 F
FLASH POINT (TEST METHOD):	Not Applicable
EVAPORATION RATE (n-Butyl Acetate=1):	Not Applicable
FLAMMABILITY CLASSIFICATION:	Non-Combustible
LOWER FLAMMABLE LIMIT IN AIR (% by vol):	Not Applicable
UPPER FLAMMABLE LIMIT IN AIR (% by vol):	Not Available
VAPOR PRESSURE (mm of Hg)@20 C	Not Available
VAPOR DENSITY (air=1):	Not Applicable
GRAVITY @ 68/68F / 20/20C:	
DENSITY:	Not Available
SPECIFIC GRAVITY (Water=1):	1.24 - 1.34
POUNDS/GALLON:	11.2
WATER SOLUBILITY:	Highly Soluble
PARTITION COEFFICIENT (n-Octane/Water):	Not Available
AUTO IGNITION TEMPERATURE:	Not Applicable
DECOMPOSITION TEMPERATURE:	Not Available
VISCOSITY @ 20 C (ASTM D445):	Not Available
VOLATILE % @ 21 C / 70 F:	0

\* Using CARB (California Air Resources Board Rules).

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## SECTION 10. STABILITY & REACTIVITY

### 10.1 REACTIVITY & CHEMICAL STABILITY:

Stable under normal conditions.

### 10.2 POSSIBILITY OF HAZARDOUS REACTIONS & CONDITIONS TO AVOID:

Isolate from incompatibles (See Below). Avoid dusting.

### 10.3 INCOMPATIBLE MATERIALS:

Isolate from moisture and strong oxidizing agents.

### 10.4 HAZARDOUS DECOMPOSITION PRODUCTS:

Hydrochloric Acid and Magnesium Oxide from extreme heating.

### 10.5 HAZARDOUS POLYMERIZATION:

Will not occur.

## SECTION 11. TOXICOLOGICAL INFORMATION

### 11.1 ACUTE HAZARDS

#### 11.1.1 SKIN CONTACT:

Acute overexposure can cause irritation to skin.

#### 11.1.2 EYE CONTACT:

Acute overexposure can cause irritation to eyes.

#### 11.1.3 INHALATION:

Inhalation may cause irritation to the eyes and the respiratory tract.

#### 11.1.4 SWALLOWING:

Swallowing can cause abdominal irritation, nausea, vomiting & diarrhea.

### 11.2 SUBCHRONIC HAZARDS/CONDITIONS AGGRAVATED

#### MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

Pre-existing disorders of any target organs mentioned in this SDS can be aggravated by over-exposure by routes of entry to components of this product.

### 11.3 CHRONIC HAZARDS

#### 11.3.1 CANCER, REPRODUCTIVE & OTHER CHRONIC HAZARDS:

This product has no carcinogens listed by IARC, NTP, NIOSH, OSHA or ACGIH, as of this date, greater or equal to 0.1%.

11.3.2 TARGET ORGANS: May cause damage to target organs, based on animal data.

11.3.3 IRRITANCY: Irritating to contaminated tissue.

11.3.4 SENSITIZATION: No component is known as a sensitizer.

11.3.5 MUTAGENICITY: No known reports of mutagenic effects in humans.

11.3.6 EMBRYOTOXICITY: No known reports of embryotoxic effects in humans.

11.3.7 TERATOGENICITY: No known reports of teratogenic effects in humans.

11.3.8 REPRODUCTIVE TOXICITY: No known reports of reproductive effects in humans.

A MUTAGEN is a chemical which causes permanent changes to genetic material (DNA) such that the changes will propagate across generational lines. An EMBRYOTOXIN is a chemical which causes damage to a developing embryo (such as: within the first 8 weeks of pregnancy in humans), but the damage does not propagate across generational lines. A TERATOGEN is a chemical which causes damage to a developing fetus, but the damage does not propagate across generational lines. A REPRODUCTIVE TOXIN is any substance which interferes in any way with the reproductive process.

### 11.4 MAMMALIAN TOXICITY INFORMATION

No mammalian information is available on this product.

## SECTION 12. ECOLOGICAL INFORMATION

### 12.1 ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.

### 12.2 EFFECT OF MATERIAL ON PLANTS AND ANIMALS:

This product may be harmful or fatal to plant and animal life that are not saline tolerant.

### 12.3 EFFECT OF MATERIAL ON AQUATIC LIFE:

No aquatic environmental information is available on this product.

### 12.4 MOBILITY IN SOIL

Mobility of this material has not been determined.

### 12.5 DEGRADABILITY

This product is completely biodegradable.

### 12.6 BIOACCUMULATION

Bioaccumulation of this product has not been determined.

## SECTION 13. DISPOSAL CONSIDERATIONS

The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Processing, use or contamination may change the waste disposal requirements. Do not dispose of on land, in surface waters, or in storm drains. Waste should be recycled or disposed of in accordance with regulations. Large amounts should be collected for reuse or consigned to licensed waste haulers for disposal.  
**ALL DISPOSAL MUST BE IN ACCORDANCE WITH ALL FEDERAL, STATE, PROVINCIAL, AND LOCAL REGULATIONS. IF IN DOUBT, CONTACT PROPER AGENCIES.**

## SECTION 14. TRANSPORT INFORMATION

MARINE POLLUTANT: No  
DOT/TDG SHIP NAME: Not Regulated  
DRUM LABEL: None  
IATA / ICAO: Not Regulated  
IMO / IMDG: Not Regulated  
EMERGENCY RESPONSE GUIDEBOOK NUMBER: None

## SECTION 15. REGULATORY INFORMATION

### 15.1 EPA REGULATION:

SARA SECTION 311/312 HAZARDS: None Known

All components of this product are on the TSCA Inventory.

This material contains no known products restricted under SARA Title III, Section 313 in amounts greater or equal to 1%.

### 15.2 STATE REGULATIONS:

CALIFORNIA SAFE DRINKING WATER & TOXIC ENFORCEMENT ACT (PROPOSITION 65):

This product contains no chemicals known to the State of California to cause cancer or reproductive toxicity.

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## SECTION 15. REGULATORY INFORMATION (CONTINUED)

### 15.3 INTERNATIONAL REGULATIONS

The identified components of this product are listed on the chemical inventories of the following countries:

Australia (AICS), Canada (DSL), China (IECSC), Europe (EINECS, ELINCS),  
Japan (METI/CSCL, MHLW/ISHL), South Korea (KECI), New Zealand (NZIoC),  
Philippines (PICCS), Switzerland (SWISS), Taiwan (NECSI), USA (TSCA).

### 15.4 CANADA: WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS)

Not controlled.

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all information required by the CPR.

## SECTION 16. OTHER INFORMATION

### 16.1 HAZARD RATINGS:

HEALTH (NFPA): 1, HEALTH (HMIS): 1, FLAMMABILITY: 0, PHYSICAL HAZARD: 0  
(Personal Protection Rating to be supplied by user based on use conditions.)  
This information is intended solely for the use of individuals  
trained in the NFPA & HMIS hazard rating systems.

16.2 SDS DATE: 05/18/2015

### NOTICE

The supplier disclaims all expressed or implied warranties of merchantability or fitness for a specific use, with respect to the product or the information provided herein, except for conformation to contracted specifications. All information appearing herein is based upon data obtained from manufacturers and/or recognized technical sources. While the information is believed to be accurate, we make no representations as to its accuracy or sufficiency.

Conditions of use are beyond our control, and therefore users are responsible for verifying the data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their handling, and disposal of the product. Users also assume all risks in regards to the publication or use of, or reliance upon information contained herein. This information relates only to the product designated herein, and does not relate to its use in combination with any other material or process.