

WATER SPECIALIST SUPPLY CO.,LTD. Call : 034-440-851-3, 095-367-5790 Sales : 089-695-8181, 083-705-1000, 089-160-6121

MATERIAL SAFTY DATA SHEET

MAGNESIUM CHLORIDE

PRODUCT: MAGNESIUM CHLORIDE

SECTION 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

WATER SPECIALIST SUPPLY CO.,LTD.

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PREPARED BY	Water Specialist Supply CO.,LTD
PREPARATION DATE	22/August/16
PRODUCT NAME	Magnesium Chloride Hexahydrate Flakes
CHEMICAL FORMULA	MgCl2.
PRODUCT USE	Industrial flooring, abrasive and textile industry, water treatment, fertilizer mixtures, animal feed, oil drilling, Ice and dust control
MOLECULAR WEIGHT	203.31 g/mol.
CHEMICAL FAMILY	Inorganic salt .
EMERGENCY PHONE NO	(+66)34-440-851 to 3 or (+66)95-367-5790

SECTION 02 : COMPOSITION/INFORMATION ON INGREDIENT

Content Ingredients	Weight%	EC No.	EU classification
Magnesium Chloride Hexahydrate 7791-18-6	46.5-47	2320946 (anhydrous CAS 77	None (86-30-3)
Calcium Chloride 10043-52-4	2.2	233-140-8	Xi;R36
Sodium Chloride 7647-14-5	0.9	231-598-3	None
Potassium Chloride 7447-40-7	0.6	231-211-8	None
Water of crystallization 7732-18-5	49.3-49.8	231-791-2	None

SECTION 03: HAZARDS IDENTIFICATION

Adverse human health effects :

May irritate eyes.

Not classified as dangerous.

Threshold Limits Value : Effects of overexposure : Emergency Procedure :

No specific TLV has been established. Nuisance Particulates TLV : No specific TLV has been established. avoid contact with eyes see section 04

SECTION 04 : FIRST AID MEASURES

Inhalation:

In case of dust inhalation or breathing fumes released from heated material, remove person to fresh air. Keep him quiet and warm. Apply artificial respiration if necessary and get medical attention immediately.

Skin Contact:

Wash with water in case of irritation. Get medical attention if irritation occurs and persists.

Eye contact:

Holding the eyelids apart, flush eyes promptly with copious flowing water for at least 20 minutes. Get medical attention if irritation persists.

Ingestion :

If swallowed, wash mouth thoroughly with plenty of water. Get medical attention immediatelv.

NOTE: Never give an unconscious person anything to drink.

Notes to the physician :

In case of ingestion, the salt level in blood must be determined. Treat symptomatically and supportively.

SECTION 05 :FIRE FIGHTING MEASURES

Fire Fighting Procedure:

In closed stores, provide fire-fighters with self-contained breathing apparatus in positive pressure mode.

Unusual Fire and Explosion Hazards:

When heated to decomposition, may release poisonous and corrosive fumes of HCI.

Special Fire Fighting Procedure:

None .Product can be used to smoother fire.

SECTION 06 : ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Wear protective clothing specified for normal operations (see section 8).

Methods for Cleaning up :

Sweep up, place in a bag and hold for waste disposal or possible re-use.

SECTION 07 : HANDLING AND STORAGE

Handling :

Keep containers tightly closed. When removing this product (Magnesium Chloride) from its packing , the product first appears dry. Due to its hygroscopic nature, it readily takes on atmospheric moisture and softens rapidly.

The bagged material should be kept closed in a dry atmosphere. When stored under suitable conditions, Magnesium Chloride will keep for an almost unlimited period.

SECTION 08 : EXPOSE CONTROL/PERSONAL PROTECTION

Ventilation requirements :

Good general ventilation.

Ventilation must be sufficient to maintain TLV-TWA below 3 mg/m3, respirable particles, and 10 mg/m3, inhalable particles (ACGIH recommendation for Particles (Insoluble or poorly soluble) Not Otherwise Specified (PNOS)).

Personal protective equipment

Respiratory protection :In case of significant or accidental dust emmisions,dust mask should be worn.

Hand protection :Protective gloves

Eye protection : Chemical safety goggles

Skin and body protection :Body covering clothes and boots

Hygiene measures : Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. Safety shower and eye bath should be provided.

Exposure limit

Components	ACGIH-TLV Data	OSHA (PEL) Data
Magnesium Chloride Hexahydrate 7791-18-6	Not determined	Not determined
Calcium Chloride 10043-52-4	Not determined	Not determined
Sodium Chloride 7647-14-5	Not determined	Not determined
Potassium Chloride 7447-40-7	Not determined	Not determined
Water of crystallization 7732-18-5	Not determined	Not determined

SECTION 09 : PHYSICAL AND CHEMICAL PROPERTIES		
Physical State :	Flakes Solid	
Color :	White	
Molecular Weight:	203.31 g/mol.	
Molecular Formula:	MgCl2.	
Boiling Point :	Not applicable	
Melting Point :	118°C (244°F)	
Auto-ignition temperature :	Not applicable	
Decomposition Point :	>160°C	
Vapor Pressure :	N/A	
Specific Gravity(Water =1):	N/A	
Solubility in water :	167g/100g	
Density :	1.6 g/cm3 (20°C)	
Bulk Density :	800-900 kg/m3	
Water Solubility :	1.2 g/100 g@25 C	
РН :	8.2 @ 10% aqueous solution	

SECTION 10:STABILITY AND REACTIVITY

Stability:

Stable at normal temperatures and pressure.

Conditions to Avoid :

Exposure to moisture Heating above decomposition temperature.

Incompatibilities :

oxidizing agents.

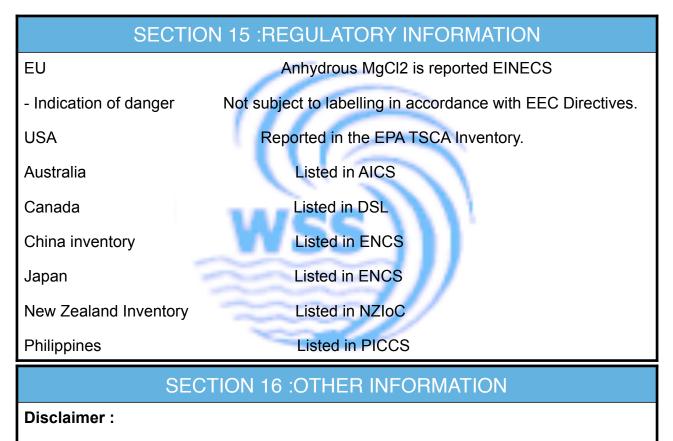
Hazardous Decomposition:

Oxides of: potassium, calcium, magnesium, sodium and HCI.

Hazardous Polymerization :

Will not occur.

SECTION 11 : TOXICOLOGICAL INFORMATION Acute Toxicity Level : Rat oral LD50 :8100 mg/kg (for MgCl2) Mouse oral LD50 :7600 mg/kg (for MgCl₂) **Mutagenicity:** Not available. 30 Carcinogenicity : Not classified by IARC Not included in NTP 11th Report on Carcinogens SECTION 12 : ECOLOGICAL CONSIDERATION **Ecotoxicity Data :** MgCl2 is a seawater component. SECTION 13 : DISPOSAL CONSIDERATION Waste disposal : Observe all federal, state and local environmental regulations when disposing of this material. **Disposal of Packaging :** Containers can be recycled after proper cleaning. **SECTION 14 : TRANSPORT INFORMATION** IMO Not regulated ICAO/IATA Not regulated DOT Not regulated



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