



WATER SPECIALIST SUPPLY CO.,LTD.

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MATERIAL SAFTY DATA SHEET

MAGNESIUM CHLORIDE

PRODUCT:MAGNESIUM CHLORIDE

SECTION 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

WATER SPECIALIST SUPPLY CO.,LTD.

78/7 Moo4 Khae Rai, Krathum Baen, Samut Sakhon 74110

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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

Table with 4 columns: Content Ingredients, Weight%, EC No., EU classification. Rows include Magnesium Chloride Hexahydrate, MgCl2.6H2O, Sulphate(as SO4), and Chloride (as Cl).

SECTION 03: HAZARDS IDENTIFICATION

Adverse human health effects :

May irritate eyes.

Not classified as dangerous.

Threshold Limits Value : No specific TLV has been established.

Nuisance Particulates TLV : No specific TLV has been established.

Effects of overexposure : avoid contact with eyes

Emergency Procedure : 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 immediately.

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 HCl.

Special Fire Fighting Procedure:

None .Product can be used to smother 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 emissions,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.

SECTION 09 :PHYSICAL AND CHEMICAL PROPERTIES

| | |
|------------------------------------|---------------------|
| Physical State : | Flakes Solid |
| Color : | Light Yellow |
| Molecular Weight: | 203.31 g/mol. |
| Molecular Formula: | MgCl ₂ . |
| 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/cm ³ (20°C) |
| Bulk Density : | 800-900 kg/m ³ |
| Water Solubility : | 1.2 g/100 g@25 C |
| PH : | 8.2 @ 10% aqueous solution |

SECTION 10:STABILITY AND REACTIVITY

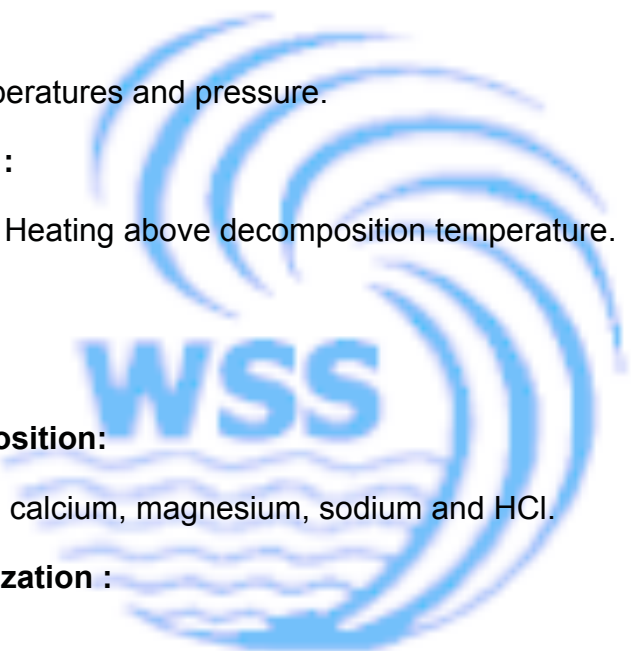
Stability:
Stable at normal temperatures and pressure.

Conditions to Avoid :
Exposure to moisture Heating above decomposition temperature.

Incompatibilities :
oxidizing agents.

Hazardous Decomposition:
Oxides of: potassium, calcium, magnesium, sodium and HCl.

Hazardous Polymerization :
Will not occur.



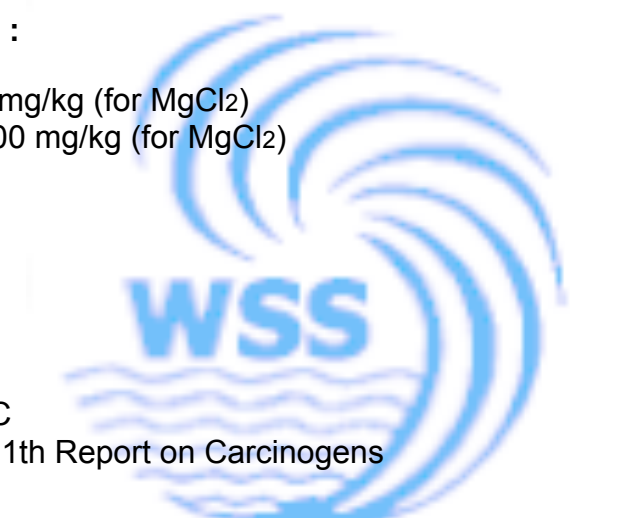
SECTION 11 : TOXICOLOGICAL INFORMATION

Acute Toxicity Level :

Rat oral LD50 :8100 mg/kg (for MgCl₂)
Mouse oral LD50 :7600 mg/kg (for MgCl₂)

Mutagenicity :
Not available.

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

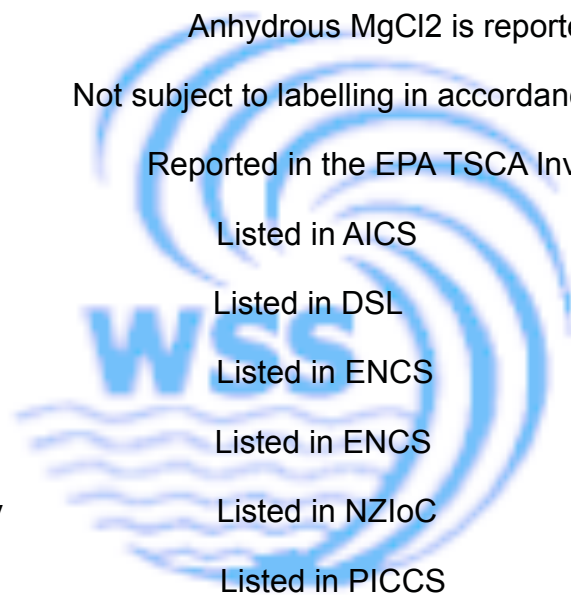
ICAO/IATA Not regulated

DOT Not regulated



SECTION 15 : REGULATORY INFORMATION

| | |
|------------------------|---|
| EU | Anhydrous MgCl ₂ is reported EINECS |
| - Indication of danger | Not subject to labelling in accordance with EEC Directives. |
| USA | Reported in the EPA TSCA Inventory. |
| Australia | Listed in AICS |
| Canada | Listed in DSL |
| China inventory | Listed in ENCS |
| Japan | Listed in ENCS |
| New Zealand Inventory | Listed in NZIoC |
| Philippines | Listed in PICCS |



SECTION 16 :OTHER INFORMATION

Disclaimer :

Water Specialist Supply(WSS THAILAND) CO.,Ltd provide information contained here in good faith but make no representation as to its comprehensiveness or accuracy.This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.