

PRODUCT INFORMATION

CHEMICAL NAME: Magnesium Chloride, Flake

SYNONYMS: Magnesium chloride, hexahydrate; Magnesium chloride, 6-hydrate, crystal

CAS No: 7791-18-6

MOLECULAR WEIGHT: 203.30

CHEMICAL FORMULA: MgCl₂, 6H₂O

PIN: Not applicable. WHMIS:

MANUFACTURER: Dead Sea Works Ltd.
 Potash House.
 PO Box 75, Beer-Sheva 84100
 Isreal 057-465111

SUPPLIER: Panther Industries Inc.**Box 628****Davidson, SK SOG 1A0****EMERGENCY TELEPHONE NUMBER: (306) 567-2814****HAZARDOUS INGREDIENTS**

| INGREDIENTS: | WEIGHT % | C.A.S. NO: | HAZARDOUS |
|--------------------|----------|------------|-----------|
| Magnesium Chloride | 45-47 | 7791-18-6 | YES |
| Calcium Chloride | 2-3 | 10035-04-8 | |
| Potassium Chloride | 0.5-1.0 | 7447-40-7 | |
| Sodium Chloride | 0.5-1.0 | 7647-14-5 | |
| Water Balance | | 7732-18-5 | |

PHYSICAL DATA

PHYSICAL STATE: Flakes or crystals

ODOR AND APPEARANCE: Odorless, colorless

ODOR THRESHOLD: Not available.

VAPOR PRESSURE: Not available. VAPOR DENSITY: Not available.

EVAPORATION RATE: Not available. pH: N.AV.

BOILING POINT: 1412 C . MELTING POINT:

SOLUBILITY (% W/W): Soluble

SPECIFIC GRAVITY (water=1): 2.32

COEFFICIENT OF WATER/OIL DIST.: N. AV.

FIRE AND EXPLOSION DATA

FIRE: Not considered to be a fire hazard.

EXPLOSION: Not considered to be an explosion hazard. At room temperature the addition of magnesium chloride to furan-2-peroxycarboxylic acid, will cause the acid to explode.

FIRE EXTINGUISHING MEDIA: Use any means suitable for extinguishing surrounding fire.

SPECIAL PROCEDURES: No special instructions. Product can be used to smother fires. Firefighters should wear self-contained breathing apparatus.

REACTIVITY DATA

STABILITY: Stable .

HAZARDOUS DECOMPOSITION PRODUCTS: HCL (>1400 C)

HAZARDOUS POLYMERIZATION: Will not occur.

INCOMPATIBILITIES: None.

HEALTH HAZARD DATA

EMERGENCY OVERVIEW:

CAUTION MAY BE HARMFUL IF SWALLOW

INHALATION: Inhalation of dust may cause mild irritation to the mucous membranes and throat causing coughing and chest congestion.

SKIN CONTACT: May irritate damp skin.

EYE CONTACT: May cause eye irritation.

INGESTION: Abdominal cramps and/or diarrhea.

CHRONIC EXPOSURE: May result in delayed liver and/or kidney damage.

INHALATION CHRONIC: None known.

FIRST AID MEASURES

INHALATION: Remove to fresh air. Get medical attention for any breathing difficulty.

INGESTION: Give several glasses of water to drink to dilute. If large amounts were swallowed, get medical advice. Induce vomiting if conscious.

SKIN CONTACT: Remove any contaminated clothing. Wash skin with soap and water.

EYE CONTACT: Wash thoroughly with running water. Get medical advice if irritation develops.

PREVENTATIVE MEASURES

HANDLING AND STORAGE: Keep in a tightly closed container, stored in a cool, dry, ventilated area. Avoid prolonged or repeated skin contact. Avoid getting in eyes. Avoid chronic inhalation of dust. Minimize dust generation and exposure. Use dust mask. Use adequate ventilation. Maintain a good personal hygiene.

VENTILATION SYSTEM: A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, "Industrial Ventilation, A Manual of Recommended Practices", most recent edition, for details.

PERSONAL RESPIRATOR (NIOSH Approved): For conditions of use where exposure to the dust or mist is apparent, a half-face dust/mist respirator may be worn. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

SKIN PROTECTION: Wear protective gloves and clean body-covering clothing.

EYE PROTECTION: Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

TOXICOLOGICAL INFORMATION**EXPOSURE LIMITS:**

MgCL₂ ...LD/50 - 8100 MG/KG (oral, rat)

CaCL₂ ...LD/50 - 1000 MG/KG (oral, rat)

KCL ...LD/50 - 2430 MG/KG (oral, rat)

NaCL ... LD/50 - 3750 MG/KG (oral, rat)

CARCINOGENICITY: None Known

REPRODUCTIVE EFFECTS: None Known

SENSITIZING CAPABILITY OF MATERIAL: None Known

ENVIRONMENTAL PROTECTION DATA

ACCIDENTAL RELEASE MEASURES: Ventilate area of leak or spill. Wear appropriate protective equipment as specified under Preventative Measures. Spills: Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal.

WASTE DISPOSAL METHODS: Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations.

PREPARATION INFORMATION

MSDS PREPARED BY: TECHNICAL DEPARTMENT

Panther Industries Inc.

TELEPHONE NUMBER: (306) 567-2814

DATE PREPARED/REVISED: April 06 2007

DATE PRINTED: April 06 2007

REFERENCES:

1. Manufacturers MSDS.

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