

600-024
F4024100

Prepared according to UN GHS (GHS Rev.8(2019))

SAFETY DATA SHEET

SECTION 1 — IDENTIFICATION

1.1 GHS PRODUCT IDENTIFIER

Product Name: MAGNESIUM SULFATE HOT PACK

Product Code: Not available

1.2 OTHER MEANS OF IDENTIFICATION

None.

1.3 RECOMMENDED USE OF THE CHEMICAL AND RESTRICTIONS ON USE

Advised Uses: Hot application for hot therapy. Provides relief for sore and stiff joints, muscles aches and pain, and muscle tension and cramps.

Restrictions on use:

- (a) Paralytic
- (b) Diabetic peripheral neuropathy
- (c) Nonsensitive skin
- (d) Anesthetic skin
- (e) Uncovered open wounds

1.4 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET Company

Identification: WASIP Ltd.

Address: 3771 Victoria Park Avenue, Toronto, Ontario, M1W 3Z5

TEL: 800-268-3572

FAX: 800-263-9049

SECTION 2 — HAZARDS IDENTIFICATION

2.1 GHS Classification

GHS Regulatory Status

This chemical is not considered hazardous by the UN GHS (GHS Rev.8(2019)).

2.2 GHS Label elements

1) Precautionary Statements - Prevention:

P261 Avoid breathing dust/fume/gas/mist/ vapors/spray.

P264 Wash thoroughly after handling.

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P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

2) Precautionary Statements - Response:

P312 Call a POISON CENTER/doctor if you feel unwell.

P330 Rinse mouth.

P301+P312 IF SWALLOWED: Call a POISON CENTER/ DOCTOR, if you feel unwell.

P302+P352 IF ON SKIN: Wash with plenty of water.

P362+P364 Take off contaminated clothing and wash it before reuse.

3) **Storage:** Dry and cool indoor storage.

4) **Disposal:** Dispose of contents/container in accordance with local/regional/national/international regulations (to be specified).

2.3 Other hazards which do not result in classification

Not application.

SECTION 3 — COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS #	%(weight)	ACGIH TLV		OSHA	
			TWA	STEL	PEL	STEL
Magnesium sulphate	7487-88-9	40	N/Av	N/Av	N/Av	N/Av
Water	7732-18-5	60	N/Av	N/Av	N/Av	N/Av

SECTION 4 — FIRST-AID MEASURES

4.1 Description of necessary first-aid measures

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

Skin Contact: Immediately flush skin with plenty of water while removing contaminated clothing and shoes. Do not reuse clothing or shoes until cleaned. If irritation develops or persists, get medical attention. Wash with soap and water. Do not apply oils or ointments unless ordered by the physician.

Eye Contact: Flush eyes with large amounts of water for at least 15 minutes while holding eyelids open. Tilt head to avoid contaminating unaffected eye. Get immediate medical attention.

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Ingestion: If swallowed, call a physician immediately. Rinse mouth and throat thoroughly with water. Do not induce vomiting unless directed to do so by a physician. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs.

Protection of first-aid: None.

4.2 Most important symptoms/effect, acute and delayed

See section 11

4.3 Indication of immediate medical attention and special treatment needed, if necessary

- 1) **Note to Physicians:** Treat symptomatically.
- 2) **Specific treatments:** No further relevant information available.

SECTION 5 — FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Use Water, Carbon Dioxide (CO₂), Foam, Dry Chemical.

Unsuitable extinguishing media: No information available.

5.2 Specific hazards arising from the mixture: Not application.

5.3 Special protective equipment and precautions for fire-fighters

Special protective equipment: NIOSH-approved positive pressure self-contained breathing apparatus with full-face mask and full protective clothing.

Special protective precautions: Fight fires from a safe distance. Evacuate personnel to safe area. Water spray may be useful in cooling equipment exposed to heat and flame.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment, and emergency procedures:

- ◆ Remove all sources of ignition. Ensure adequate ventilation. Take precautionary measures against static discharges.
- ◆ Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Use personal protective equipment. Avoid breathing vapors and contacting with skin and eyes.
- ◆ Wear protective clothing, gloves, safety glasses and dust respirator.

6.2 Environmental precautions

- ◆ Prevent further leakage or spillage if safe to do so.
- ◆ Do not let product enter drains.

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6.3 Methods and materials for containment and cleaning up: Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations. Dispose contaminated material as waste according to item 13.

6.4 Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7 — HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING.

Handling: Ensure good local exhaust ventilation. Handle and open container with care. Keep container closed and away from incompatible substances, food, drink and dust/impurities. Protect from humidity and water. Minimize dust generation and accumulation. Avoid dust contact with eyes. Avoid breathing dust and fume. Avoid ingestion. Remove contaminated clothing and wash before reuse. Empty containers retain product residue. The work area should be equipped with the corresponding species and quantity of fire equipment and leakage emergency equipment.

Information about fire - and explosion protection: Normal measures for preventive fire protection.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Requirements to be met by storerooms and receptacles: Store in a closed container. Store in a cool, dry, and well-ventilated area and keep away from incompatible substances, food, drink and dust/impurities. Inspect regularly for deficiencies such as damage or storage area should be equipped with the corresponding species and quantity of fire equipment and leakage emergency equipment. Store protected from moisture.

Information about storage in one common storage facility: Store away from foodstuffs. Store away from oxidizing agents.

Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.

Specific end use(s): No further relevant information available.

SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION

ADDITIONAL INFORMATION ABOUT DESIGN OF TECHNICAL FACILITIES: NO FURTHER DATA; SEE ITEM 7.

8.1 Exposure controls

Based on the composition shown in Section 3, the following measures are suggested for occupational safety

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Measure.

ACGIH		OSHA		DFG MAKs	
TWA (Inhalable fraction)	TWA (Respirable fraction)	TWA (Total dust)	TWA (Respirable fraction)	TWA (Inhalable fraction)	TWA (Respirable fraction)
10 mg/m ³	3 mg/m ³	15 mg/m ³	5 mg/m ³	4 mg/m ³	1.5 mg/m ³

Use mechanical ventilation such as dilution and local exhaust. Use a corrosion-resistant ventilation system and exhaust directly to the outside. Supply ample air replacement. Provide dust collectors with explosion vents.

8.3 Personal protective equipment

8.3.1 Eye/face protection: Wear safety glasses with side shields (or goggles) and a face shield.

8.3.2 Skin protection: Wear appropriate work gloves for type of operation.

8.3.3 Respiratory protection: None required where adequate ventilation conditions exist. If airborne concentrations are above the applicable exposure limits, use NIOSH-approved respiratory protection.

8.3.4 Other Protection: Use good hygiene practices when handling this material including changing and laundering work clothing after use. Have a safety shower or eye-wash fountain available. Wash hands thoroughly after handling material. Do not eat, drink, or smoke in work areas.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

(a) **Appearance (physical state, color, etc.):** Colorless to white crystals/Solid

(b) **Odor:** Odorless

(c) **Odor threshold:** No information found.

(d) **pH:** 7 (34% soln at 20°C)

(e) **Melting point:** No information found

(f) **Initial boiling point and boiling range:** No information found.

(g) **Flash point:** Not application.

(h) **Evaporation rate:** Not application.

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- (i) **Flammability (solid, gas):** No information found.
- (j) **Upper/lower flammability or explosive limits:** No information found.
- (k) **Vapor pressure:** Not application.
- (l) **Vapor density:** No information found.
- (m) **Relative density:** No information found.
- (n) **Solubility(ies):** 34 g/mL at 20°C
- (o) **Partition coefficient: n-octanol/water:** No information found.
- (p) **Auto-ignition temperature:** No information found.
- (q) **Decomposition temperature:** No information found.
- (r) **Viscosity:** No information found.

SECTION 10 — STABILITY AND REACTIVITY

10.1 Reactivity: No information found.

10.2 Chemical Stability: Under normal conditions of temperature and pressure, Magnesium Sulfate Heptahydrate is stable. Loses some moisture on exposure to dry air at room temperature.

10.3 Possibility of hazardous reactions

Hazardous Polymerization: Not expected under prescribed storage and handling conditions. Decomposition may occur at extremely high temperatures.

10.4 Conditions to avoid: Avoid high temperatures, excessive heat, incompatible materials and air (material is hygroscopic).

10.5 Incompatible materials : Ethoxy ethyl alcohols, arsenates, phosphates, tartrates, lead, barium, strontium and calcium, strong oxidizers.

10.6 Hazardous decomposition Products: No dangerous decomposition products known.

10.7 Incompatibilities with Other Materials: No further relevant information available.

SECTION 11 — TOXICOLOGICAL INFORMATION

11.1 Acute toxicity

Acute exposure may cause mild skin and eye irritation. Gastrointestinal absorption may cause acute magnesium poisoning. Symptoms include flushing, sweating, low blood pressure, depression of reflexes, flaccid paralysis, hypothermia, circulatory collapse, and depression of CNS and heart function. Excessive long-term ingestion of this product may cause

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also cause magnesium poisoning with symptoms described above.

11.2 Carcinogenic status: Magnesium Sulfate Heptahydrate is not listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

11.3 Other information

Skin corrosion/irritation: No information found.

Serious eye damage/irritation: No information found.

Skin or skin sensitization: No information found.

Germ cell mutagenicity: No information found.

Reproductive toxicity: No information found.

STOT-single exposure: No information found.

STOT-repeated exposure: No information found.

Aspiration hazard: No information found.

SECTION 12 — ECOLOGICAL INFORMATION

12.1 TOXICITY

Acute/Chronic Toxicity:

Fish Toxicity; *Gambusia affinis* LC50: 15500 mg/l/96h

Daphnia Toxicity; *Daphnia magna* EC50: 1700 mg/l /24h

Algal Toxicity; *Desmodesmus subspicatus* IC50: 2700 mg/l/72 h

Bacterial Toxicity; *Photobacterium phosphoreum* EC50: 84 mg/l /30 min

12.2 PERSISTENCE AND DEGRADABILITY

Not available.

12.3 BIOACCUMULATIVE POTENTIAL

Bioaccumulation: Method for the determination of biodegradability are not applicable to inorganic substance.

12.4 MOBILITY IN SOIL

Not available.

12.5 OTHER ADVERSE EFFECTS

Not available.

SECTION 13 — DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Recommendation: Dispose of in accordance with all applicable Federal, State or provincial, and local regulations.

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13.2 Contaminated packaging

Recommendation: Disposal must be made according to official regulations.

13.3 Disposal recommendations

Refer to section 13.1 and 13.2.

SECTION 14 — TRANSPORT INFORMATION

- (a) UN Number(TDG, ADR, IMDG, IATA): Not applicable.
- (b) UN proper shipping name(TDG, ADR, IMDG, IATA): Not applicable.
- (c) Transport hazard class(TDG, ADR, IMDG, IATA): Non-hazardous for Transport.
- (d) Packing group(TDG, ADR, IMDG, IATA): Not applicable.
- (e) Environmental hazards(Marine pollutant): Refer to section 12.1.
- (f) Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.
- (g) Special precautions for user: Not applicable.
- (h) The product is not subject to IMO/IMDG code.

SECTION 15 — REGULATORY INFORMATION

Component	[EINECS]	[TSCA]	[DSL]	[IECSC]	[NZIoC]	[PICCS]	[KECI]	[AICS]
Magnesium sulphate	Not listed	Not listed	Listed	Listed	Listed	Listed	Not listed	Listed
Water	Listed	Listed	Listed	Listed	Listed	Listed	Listed	Listed

[EINECS] European Inventory of Existing Commercial Chemical Substances

[TSCA] United States Toxic Substances Control Act Inventory

[DSL] Canadian Domestic Substances List

[IECSC] China Inventory of Existing Chemical Substances

[NZIoC] New Zealand Inventory of Chemicals

[PICCS] Philippines Inventory of Chemicals and Chemical Substances

[KECI] Existing and Evaluated Chemical Substances

[AICS] Australia Inventory of Chemical Substances

SECTION 16 — OTHER INFORMATION

16.1 Reference

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[1] IPCS: The International Chemical Safety Cards (ICSC), website: <http://www.ilo.org/dyn/icsc/showcard.home>.

[2] IARC, website: <http://www.iarc.fr/>.

[3] OECD: The Global Portal to Information on Chemical Substances,
website: http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en.

[4] CAMEO Chemicals, website: <http://cameochemicals.noaa.gov/search/simple>.

[5] NLM: ChemIDplus, website: <http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp>.

[6] EPA: Integrated Risk Information System, website: <http://cfpub.epa.gov/iris/>.

[7] U.S. Department of Transportation: ERG, website: <http://www.phmsa.dot.gov/hazmat/library/erg>.

[8] Germany GESTIS-database on hazard substance, website: <http://gestis-en.itrust.de/>.

16.2 Abbreviations and acronyms

UN GHS: United nations Globally Harmonized System of Classification and Labelling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstracts Service

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980.

DOT: Department of Transportation

DSL: the Domestic Substances List of Canada

EC: European Commission

EPA: Environmental Protection Agency

HMIS: Hazardous Substances Data Bank

IARC: International Agency for Research on Cancer

Inh: Inhalation

IATA: International Air Transport Association

LC: Lethal Concentration

LD₅₀: Lethal dose, 50 percent kill

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MA: Massachusetts

MAC: Maximum allowable concentration

MSHA: Mine Safety and Health Administration

N/Ap: Not Applicable

N/Av: Not Available

NFPA: National Fire Protection Association

NIOSH: US National Institute for Occupational Safety and Health

NTP: US National Toxicology Program

OSHA: US Occupational Safety and Health

PA: Pennsylvania

PEL: Permissible Exposure Limit

RCRA: Resource Conservation and Recovery Act

RI: Rhode Island

RTECS: Registry of Toxic Effects of Chemical Substances

SARA: Superfund Amendments and Reauthorization Act

16.3 Information on revision

Issue Time: 2022-01-11

Issue Department: Technical department

16.4 Disclaimer

This Safety Data Sheet (SDS) was prepared according to UN GHS (GHS Rev.8(2019)). The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.