

Section 1 Chemical Product and Company Identification

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HOME SCIENCE TOOLS

665 Carbon Street
Billings, MT 59102
800-860-6272
www.homesciencetools.com

CHEMTREC 24 Hour Emergency USA
Phone Number (800) 424-9300
1 703-741-5500 (from anywhere in the world).
For laboratory and industrial use only.
Not for drug, food or household use.

Product	MAGNESIUM SULFATE, HEPTAHYDRATE
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Synonyms	Epsom Salts
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Section 2 Hazards Identification

This substance or mixture has not been classified as hazardous according to the Globally Harmonized System (GHS) of Classification and Labeling of Chemicals.

Signal word: None

Pictograms: No symbol required

Target organs: None known

GHS Classification: Not classified

GHS Label information: Hazard statement: Not classified

Precautionary statement: Not classified

Supplementary information:

Do not breathe dust. Do not get in eyes, on skin, or on clothing. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands thoroughly after handling. Get medical attention if you feel unwell.

Hazards not otherwise classified:

Health hazards not otherwise classified (HHNOC) - Not Known

Physical hazards not otherwise classified (PHNOC) - Not Known

Section 3 Composition / Information on Ingredients

Chemical Name	CAS #	%	EINECS
Magnesium sulfate	10034-99-8	100%	231-298-2 (anhydrous)

Section 4 First Aid Measures

INGESTION: MAY BE HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: MAY BE HARMFUL IF INHALED. MAY CAUSE RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: MAY CAUSE EYE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN ABSORPTION: MAY BE HARMFUL IF ABSORBED THROUGH SKIN. MAY CAUSE SKIN IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Section 5 Fire Fighting Measures

Suitable Extinguishing Media: Use any media suitable for extinguishing supporting fire.

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

Specific Hazards: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Section 6 Accidental Release Measures

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways.

Containment and Cleanup: Recover for reuse if not contaminated. Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale dusts. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

Conditions for Safe Storage: Store in a cool, dry, well-ventilated area away from incompatible substances.

Section 8 Exposure Controls / Personal Protection

Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
	Magnesium sulfate	None established	None established	None established

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If dusty conditions prevail, work in fume hood or wear a NIOSH/MSHA-approved respirator.

Section 9 Physical & Chemical Properties

Appearance: Solid, White crystalline powder	Evaporation rate (= 1): Data not available	Partition coefficient: Data not available
Odor: No odor.	Flammability (solid/gas): Data not available.	Auto-ignition temperature: Data not available
Odor threshold: Data not available.	Explosion limits: Lower / Upper: Data not available	Decomposition temperature: Data not available
pH: Data not available.	Vapor pressure (mm Hg): Data not available	Viscosity: Data not available.
Melting / Freezing point: Data not available	Vapor density (Air = 1): Data not available	Molecular formula: MgSO ₄ ·7H ₂ O
Boiling point: Data not available	Relative density (Specific gravity): 2.7	Molecular weight: 246.48
Flash point: Data not available	Solubility(ies): Appreciable in water.	

Section 10 Stability & Reactivity

Chemical stability: Stable **Hazardous polymerization:** Will not occur.

Conditions to avoid: Excessive temperatures and heat. Protect from moisture.

Incompatible materials: None known.

Hazardous decomposition products: Sulfur oxides.

Section 11 Toxicological Information

Acute toxicity: Data not available

Skin corrosion/irritation: Data not available

Serious eye damage/irritation: Data not available

Respiratory or skin sensitization: Data not available

Germ cell mutagenicity: Data not available

Carcinogenicity: Data not available

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: Data not available

STOT-single exposure: Data not available

STOT-repeated exposure: Data not available

Aspiration hazard: Data not available

Potential health effects:

Inhalation: May cause respiratory irritation.

Ingestion: Ingestion may cause nausea, vomiting and diarrhea.

Skin: Contact with skin may cause irritation.

Eyes: Contact with eyes may cause irritation.

Signs and symptoms of exposure: To the best of our knowledge the chemical, physical and toxicological properties have not been thoroughly investigated. Specific data is not available. Exercise appropriate procedures to minimize potential hazards.

Additional information: RTECS #: Data not available

Section 12 Ecological Information

Toxicity to fish: Gambusia affinis (fish, fresh water), LC50: 15,500 mg/L/24 hours

Toxicity to daphnia and other aquatic invertebrates: Daphnia magna (Crustacea), EC50: 1,700 mg/L/24 hours

Toxicity to algae: Scenedesmus subspicatus (Algae), EC50: 2,700 mg/L/ 72 hours

Persistence and degradability: No data available

Bioaccumulative potential: No data available

Mobility in soil: No data available

PBT and vPvB assessment: No data available

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Section 13 Disposal Considerations

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

Section 14 Transport Information (US DOT / CANADA TDG)

UN/NA number: Not applicable

Shipping name: Not Regulated

Hazard class: Not applicable

Packing group: Not applicable

Reportable Quantity: No

Marine pollutant: No

Exceptions: Not applicable

2016 ERG Guide # Not applicable

Section 15 Regulatory Information

A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list.

Component	TSCA	CERCLA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
Magnesium sulfate	Listed	Not listed	Not listed	Listed	Not listed	This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.

Section 16 Other Information

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook.



Safety Data Sheet (SDS)

Date of issue: October 16th 2015
Reviewed; June 2022

Version: 3.0

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Jiffy-7 pellet

Other mean of identification: Jiffy-7, J-7, J7, J7 QSM, J7 Organic, Peat pellet, J7 QSM Organic.

Recommended use: Use in horticulture as a peat-based media

Restriction on use: None / Not applicable

Manufacturer: Jiffy Products (NB) Ltd.

161, Atlantic Lane
Pokemouche, NB, E8P 2M4, CANADA
Tel: 506-336-2284
Fax: 506-336-1844
www.jiffygroup.com
jiffynb@jiffygroup.com

Supplier for Canada and USA: Jiffy Products of America

5401, Baumhart Rd. Suite B
Lorain, OH 44053 US
Tel: 440-282-2818 / 800-323-1047
Fax: 440-282-2853
www.jiffygroup.com
jpa_sales@jiffygroup.com

Emergency telephone number: 506-336-2284 or 440-282-2818

Restriction on the use of the emergency telephone number: None / Not applicable

SECTION 2. HAZARD IDENTIFICATION

Hazard classification:

OSHA: Particulate Not Otherwise Regulated (PNOR)

ACGIH: Particulate Not Otherwise Classified (PNOC)

Label element:

Pictogram: None / Not applicable

Signal word: None / Not applicable

Hazard statement: None / Not applicable

Precautionary statement: None / Not applicable

Other hazard: None / Not applicable

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient: Canadian Sphagnum Peat

Concentration: 95 – 100 %

CAS No.: Not applicable

EC No.: Not applicable

Main also contain: Perlite, Zeolite, Dolomitic Lime, Fertilizer, Wetting Agent (Aquagro)

SECTION 4. FIRST-AID MEASURES

First-aid measure by route of exposure:

Inhalation: Remove to fresh air. Treat symptomatically

Skin contact: Wash plenty with soap and water

Eye contact: Rinse with water for several minutes. Seek medical help if irritation persist

Ingestion: Drink plenty of water. Do not induce vomiting. Seek medical help if adverse symptoms occur

Most important symptoms and effects (acute or delayed):

Inhalation: May cause irritation to nose, throat and lungs which may cause coughing, sneezing

Skin contact: Not expected to cause harmful effect. Long term exposure might cause dryness/irritation of the skin

Eye contact: May cause redness or eye irritation

Ingestion: Not considered harmful by ingestion.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Water, carbon dioxide, dry chemical, foam, alcohol foam, mud or earth

Unsuitable extinguishing media: Not applicable

Specific hazards arising from media:

- Use a mist spray instead of a direct jet spray to prevent burning peat moss to be scattered all over the place
- Burning peat can go on for a long time inside peat. Make sure to open up the peat pile and pour large quantity of water or other extinguishing media

Special protective equipment and precautions for fire-fighters: Wear full firefighting protective gear, including full bunker suit and full respiratory equipment (self-contained breathing apparatus (SCBA))

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precaution: Provide adequate ventilation

Protective equipment:

Goggles: Safety glasses with side shield or goggles are recommended to prevent eye contact with dust Particle

Gloves: Not required for normal use. If prolonged or repeated use irritate skin, use neoprene or PVC gloves

Respirator: Not generally required. If dust level is high, use a combination of good ventilation with personal protection (e.g. NIOSH/MSHA approved respirator for dusts, mists and fumes) to reduce exposure to acceptable level

Emergency procedure: Avoid dusting or misting conditions during cleanup. If material is uncontaminated, collect and reuse as recommended for product. If contaminated, put in appropriate container and dispose in accordance with federal, state and local regulation.
Do not allow to enter into drinking water sources, surface waters or drains.

Methods and materials for containment and cleaning up: Use protective equipment with broom and shovel. Wash spill area with water.

SECTION 7. HANDLING AND STORAGE

Precaution for safe handling: Avoid generation of dust, provide adequate ventilation and use protective equipment

Condition for safe storage (including incompatible materials): Store in a cool, dry area away from incompatible material, heat source and open flames. Store away from feed and foodstuffs as well as household cleaning product.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters, including occupational exposure guidelines or biological exposure limits and the source of those values:

Exposure guidelines to nuisance dust:

OSHA – PEL = 15 mg/m³ (total) and 5 mg/m³ (breathable)

ACGIH TLV = 10 mg/m³ (total) and 3 mg/m³ (breathable)

Derived No-Effect Level (DNEL): Not applicable

Appropriate engineering controls: Ventilation and safety station with running water in case materials gets into eyes

Individual protective measures:

Goggles: Safety glasses with side shield or goggles are recommended to prevent eye contact with dust Particle

Gloves: Not required for normal use. If prolonged or repeated use irritate skin, use neoprene or PVC gloves

Respirator: Not generally required. If dust level is high, use a combination of good ventilation with personal protection (e.g. NIOSH/MSHA approved respirator for dusts, mists and fumes) to reduce exposure to acceptable level

Hygiene: Always wash hand with soap and water after handling this products
Protect, cover and keep any open wounds clean

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Dry solid pellets that expand 3 – 5 times its thickness when water is poured over. It then become very moist, porous and fibrous

Color: Light to dark brown

Odour: Typical smell of dirt/soil/earth

Odour threshold: Not applicable

pH: 4.0 – 6.0

Melting point: Not applicable

Freezing point: Not applicable

Initial boiling point: Not applicable

Boiling range: Not applicable

Flash point: Not applicable

Evaporation rate: Not applicable

Flammability: Solid is flammable

Lower flammable / explosive limits: Not applicable

Upper flammable / explosive limits: Not applicable

Vapour pressure: Not applicable

Vapour density: Not applicable

Relative density: 0.8 – 1 g/ml

Solubility: Not applicable

Partition coefficient – n-octanol/water: Not applicable

Auto-ignition temperature: Not available

Decomposition temperature: Not available

Viscosity: Not applicable

SECTION 10. STABILITY AND REACTIVITY

Reactivity: Stable under normal condition

Chemical stability: Stable under normal condition

Possibility of hazardous reactions: Not applicable

Condition to avoid: Open flame can start a fire
Hot and wet/moist environment can generate mold

Incompatible material: Not applicable

Hazardous decomposition material: Oxides of carbon

SECTION 11. TOXICOLOGICAL INFORMATION

Likely routes of exposure: Eyes and skin contact and inhalation are the most probable routes of exposure.
Ingestion is not likely to happen during normal uses

Symptoms related to the physical, chemical and toxicological characteristics:

Inhalation: May cause irritation to nose, throat and lungs which may cause coughing, sneezing

Skin contact: Not expected to cause harmful effect. Long term exposure might cause dryness/irritation of the skin

Eye contact: May cause redness or eye irritation

Ingestion: Not considered harmful by ingestion.

Delayed and immediate effects, and chronic effects from short-term and long-term exposure:

Acute toxicity: LD50 data not available

Eyes effects: Contact with eyes may cause irritation or redness

Skin effects: Short term exposure to the skin will most probably have no effect. Long term exposure or repetitive exposure might cause skin irritation or skin dryness

Inhalation: Short-term exposure might cause irritation of the respiratory system, inducing sneezing and coughing. No data is available for long-term exposure, but no health injuries are expected

Ingestion: Not considered harmful by ingestion

Chronic toxicity: Not classified as carcinogenic or no known carcinogenic effect by IARC (International Agency for Research on Cancer), OSHA (Occupational Safety and Health Administration), NTP (National Toxicology Program) nor WHO (World Health Organization)

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity: No know effect

Persistence and degradability: Biodegradable

Bioaccumulative potential: Not applicable

Mobility in soil: No data available

Other adverse effect: Might cause sedimentation in water course

SECTION 13. DISPOSAL CONSIDERATION

Not considered hazardous waste.

Dispose in accordance with federal, states and municipal laws and regulation

SECTION 14. TRANSPORT INFORMATION

This product is not regulated for transport

Transport of dangerous good (TGD): Not regulated

Department of transport (DOT) : Not regulated for ground nor air transport and neither under NAFTA
(North American Free Trade Agreement)

Water / Air transport – International: Not regulated

UN No.: Not regulated

UN Proper shipping name: Not applicable

Transport hazard class: Not applicable

Packing group: Not applicable

Environmental hazards: Not applicable

Transport in bulk: Not applicable

Special precaution: None

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulation specific to the product

NFPA 704 (National Fire Protection Association):

Health: 2

Fire: 1

Reactivity: 0

WHMIS: Not controlled

CEPA (Canadian Environmental Protection Act): On the domestic substance list

EPCRA SARA Title III:

Section 311/312/ Hazard classes: Not applicable

Section 313 / Toxic Chemicals: Not applicable

CERCLA / SARA 302 Reportable Quantity (RQ): Not applicable

US / Toxic Substances Control Act (TSCA): All ingredient are either listed or exempt from listing

European Union / European Inventory of Existing Commercial Substances (EINECS): All ingredient are either listed or exempt from listing

SECTION 16. OTHER INFORMATION

Date of the original issuance of the SDS: October 16th 2015

Date of the latest revision of the SDS: March 15th 2023

The information contained in this SDS is reliable and complete to the best of our Knowledge. However, these information is not a guarantee or warranty of any kind and the user cannot made Jiffy Products (NB) Ltd liable nor responsible for any damages, losses, injuries or other damages of any kind resulting from the use of this product. It is the user's responsibility to enquiry on the pertinence of these information and to keep informed on health and safety issues related to the use of this products. It is also the user's responsibility to comply with all applicable national, federal, state, provincial and local laws and regulation.

For more information, visit www.jiffygroup.com