

Epsom Salts

SECTION 1. IDENTIFICATION

Product Identifier	Epsom Salts
Other Means of Identification	Magnesium sulphate
Product Family	Richgrow
Recommended Use	Fertilizer.
Restrictions on Use	Not for use as bath salts.
Supplier Identifier	TerraLink Horticulture Inc., 464 Riverside Road, Abbotsford, BC, V2S 7M1, 1-800-661-4559
Emergency Phone No.	CANUTEC, In the event of an emergency involving dangerous goods, call 613-996-6666 or *666 on a cellular phone.
SDS No.	0079
Date of Preparation	March 15, 2016

SECTION 2. HAZARD IDENTIFICATION

Classification

Not classified under any hazard class.

Label Elements

Not applicable

Other Hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%	Other Identifiers	Other Names
Magnesium(II), sulfate, heptahydrate	10034-99-8	100	Magnesium sulphate	

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Move victim to fresh air. Give artificial respiration ONLY if breathing has stopped, assist breathing with oxygen. Obtain medical assistance if necessary.

Skin Contact

Rinse with lukewarm, gently flowing water for 5 minutes.

Eye Contact

Rinse the contaminated eye(s) with lukewarm, gently flowing water for 5 minutes, while holding the eyelid(s) open. If eye irritation persists, get medical advice or attention.

Ingestion

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Non toxic. If large amounts swallowed do not induce vomiting. Give 1-2 glass of water. If vomiting occurs, have victim lean forward with head down to avoid aspiration of vomit, rinse mouth. Obtain medical attention if condition persists.

First-aid Comments

Get medical advice or attention if you feel unwell or are concerned.

Most Important Symptoms and Effects, Acute and Delayed

None known.

Immediate Medical Attention and Special Treatment

Target Organs

None known.

Special Instructions

Not applicable.

Medical Conditions Aggravated by Exposure

None known.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Use an extinguishing agent suitable for the surrounding fire.

Unsuitable Extinguishing Media

Not applicable.

Specific Hazards Arising from the Product

Does not burn.

Magnesium oxide, sulfur oxide and sulfur trioxide may be generated.

Special Protective Equipment and Precautions for Fire-fighters

Use positive pressure supplied air breathing apparatus, chemical goggles, body covering, protective clothing.

Use positive pressure supplied air breathing apparatus, chemical goggles, body covering, protective clothing.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Use the personal protective equipment recommended in Section 8 of this safety data sheet.

Environmental Precautions

Sinks and mixes with water. No adverse effects known. Not a listed toxic chemical under SARA Title III, 313 40 CFR Part 372. Not a CERCLA Hazardous Substance under 40 CFR Part 302.

Methods and Materials for Containment and Cleaning Up

Small spill: Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Large spill: Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal.

Other Information

No other information was found.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Avoid breathing dust. Promptly clean up spills.

Conditions for Safe Storage

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Keep containers closed. Protect from extremes of temperature and humidity during storage. Recommended storage conditions 68- 110 deg. F. and 54-87% relative humidity.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

No information is available

Appropriate Engineering Controls

Use with adequate ventilation. Safety shower and eyewash fountain should be within direct access.

Individual Protection Measures

Eye/Face Protection

Not required but it is good practice to wear safety glasses or chemical safety goggles.

Skin Protection

Wear long sleeved clothing and protective gloves to prevent prolonged or repeated skin contact. Refer to OSHA General Requirements for Personal Protective Equipment 29 CFR 1910.132.

None required.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance	Clear colourless crystalline crystals.
Odour	Odourless (Magnesium(II), sulfate, heptahydrate)
Odour Threshold	Not applicable
pH	7.9
Melting Point/Freezing Point	Not applicable (melting); Not applicable (freezing)
Initial Boiling Point/Range	Not applicable
Flash Point	Not applicable
Evaporation Rate	Not applicable
Flammability (solid, gas)	Not applicable
Upper/Lower Flammability or Explosive Limit	Not applicable (upper); Not applicable (lower)
Vapour Pressure	Not available
Vapour Density (air = 1)	Not applicable
Relative Density (water = 1)	1.67 at 20 °C (68 °F) (Magnesium(II), sulfate, heptahydrate)
Solubility	71 g/100 mL (Very soluble (more than 50 g/100 mL)) in water; Not applicable (in other liquids)
Partition Coefficient, n-Octanol/Water (Log Kow)	Not applicable
Auto-ignition Temperature	Not applicable
Decomposition Temperature	302 - 662 °C (576 - 1224 °F) (Magnesium(II), sulfate, heptahydrate)
Viscosity	Not applicable (kinematic); Not applicable (dynamic)
Other Information	
Physical State	Solid
Molecular Weight	246.48
Bulk Density	Not available

SECTION 10. STABILITY AND REACTIVITY

Reactivity

None known.

Chemical Stability

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Normally stable.

Possibility of Hazardous Reactions

None known.

Conditions to Avoid

None known.

Incompatible Materials

Metal hydrides and other water reactive materials.

No specific information was located.

Hazardous Decomposition Products

At very high temperatures, magnesium oxide, sulfur dioxide, and sulfur trioxide may be generated.

SECTION 11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure

Inhalation; skin contact; eye contact.

Skin Corrosion/Irritation

Not a skin irritant.

Serious Eye Damage/Irritation

Human experience shows mild irritation.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

No information was located.

Skin Absorption

No information was located.

Ingestion

No information was located.

Aspiration Hazard

No information was located.

STOT (Specific Target Organ Toxicity) - Repeated Exposure

No information was located.

Respiratory and/or Skin Sensitization

No information was located.

Carcinogenicity

Not known to cause cancer.

No information was located for: LC50, LD50 (oral), LD50 (dermal), Skin Corrosion/Irritation, Serious Eye Damage/Irritation, STOT (Specific Target Organ Toxicity) - Single Exposure, Aspiration Hazard, STOT (Specific Target Organ Toxicity) - Repeated Exposure, Respiratory and/or Skin Sensitization, Carcinogenicity, Development of Offspring, Sexual Function and Fertility, Effects on or via Lactation, Germ Cell Mutagenicity, Interactive Effects

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Inclusion of Ecological Information on a Safety Data Sheet (SDS) is optional under the US Hazard Communication Standard (2012), and the Canadian WHMIS regulations. In other jurisdictions, inclusion of Ecological Information may be a requirement. For specific requirements, contact the relevant regulatory authorities in the jurisdiction where the SDS is intended to be used.

Persistence and Degradability

No information was located.

Bioaccumulative Potential

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No information was located.

Mobility in Soil

If released into the environment, this product can move rapidly through the soil.

Other Adverse Effects

There is no information available.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose of according to local, provincial and federal government requirements.

SECTION 14. TRANSPORT INFORMATION

Not regulated under Canadian TDG regulations. Not regulated under US DOT Regulations. Not regulated under IATA Regulations.

Special Precautions Not applicable

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

Canada

Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

Domestic Substances List / Non-Confidential.

CEPA - National Pollutant Release Inventory (NPRI)

Not specifically listed.

USA

Toxic Substances Control Act (TSCA) Section 8(b)

Not specifically listed.

SECTION 16. OTHER INFORMATION

NFPA Rating	Health - 0	Flammability - 0	Instability - 0
	Based on Magnesium(II), sulfate, heptahydrate		
SDS Prepared By	Regulatory and Technical Resources		
Phone No.	604-557-1497		
Date of Preparation	March 15, 2016		
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Key to Abbreviations	ACGIH® = American Conference of Governmental Industrial Hygienists AIHA® = AIHA® Guideline Foundation IARC = International Agency for Research on Cancer NFPA = National Fire Protection Association NIOSH = National Institute for Occupational Safety and Health OSHA = US Occupational Safety and Health Administration RTECS® = Registry of Toxic Effects of Chemical Substances		
References	CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS).		
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