

# **Safety Data Sheet**

Version 3.10 Revised: 2016-05-02

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name Magnesium Chloride Hexahydrate

Other means of identification

Product Code(s) A3303

Synonyms No information available

**Product Use** For Laboratory Research Use Only.

Supplier/Manufacturer

Biomatik Corporation 9-140 McGovern Dr.

Cambridge, Ontario N3H 4R7

Canada

Telephone Number 1-519-489-7195
E-mail Address info@biomatik.com

Emergency Telephone Number Chemtrec 1-800-424-9300

# 2. HAZARDS IDENTIFICATION

#### Classification

#### **OSHA Regulatory Status**

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122)

#### Label elements

**Emergency Overview** 

Appearance White Physical State Crystals Odor No information available

#### Hazards not otherwise classified (HNOC)

Not regulated

Other Information

Unknown Acute Toxicity 0 % of the mixture consists of ingredient(s) of unknown toxicity

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	EC No.	Weight %	Trade Secret
Magnesium chloride,	7791-18-6	-	95-100	Not applicable
hexahydrate				

4. FIRST AID MEASURES

**First Aid Measures** 

**Eye Contact** Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

**Skin Contact**Wash off immediately with soap and plenty of water removing all contaminated clothes and

shoes.

**Inhalation** Move to fresh air. If not breathing, give artificial respiration.

**Ingestion** Never give anything by mouth to an unconscious person. Rinse mouth.

Most important symptoms and effects, both acute and delayed

Most Important Symptoms/Effects No information available.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

#### 5. FIRE-FIGHTING MEASURES

#### **Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media No information available.

#### Specific Hazards Arising from the Chemical

No information available.

**Hazardous Combustion** 

Hydrogen Chloride gas.

**Products** 

**Explosion Data** 

Sensitivity to Mechanical Impact Sensitivity to Static Discharge None. None.

### Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal protection** Ensure adequate ventilation, especially in confined areas.

**Environmental Precautions** 

**Environmental Precautions** See Section 12 for additional Ecological information.

### Methods and material for containment and cleaning up

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up Avoid dust formation. Pick up and transfer to properly labeled containers. Ventilate area

and wash spill site after material pickup is complete.

### 7. HANDLING AND STORAGE

**Precautions for Safe Handling** 

Handling Handle in accordance with good industrial hygiene and safety practice. Protect from

moisture.

Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from

moisture.

Incompatible Products Strong oxidizing agents.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Control parameters**

**Exposure Guidelines**This product does not contain any hazardous materials with occupational exposure limits

established by the region specific regulatory bodies.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Magnesium chloride, hexahydrate	-	-	-

#### **Appropriate engineering controls**

Engineering Measures Showers

Eyewash stations Ventilation systems.

#### Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Tightly fitting safety goggles.

**Skin and Body Protection** Wear protective gloves/clothing.

Respiratory Protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical State Crystal

Appearances WhiteOdorNo information availableColorNo information availableOdor ThresholdNo information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pH (in aqueous solution) 7.0

Melting point/freezing point 117 °C

Boiling Point/Range No information available
Flash Point (High in °C) No information available
Evaporation Rate No information available
Flammability (solid, gas) No information available

Flammability Limit in Air

Upper flammability limit:
Lower flammability limit:
Vapor pressure
Vapor Density

No information available
No information available
No information available

Specific Gravity
1.56

Water Solubility No information available Solubility in other solvents No information available Partition coefficient No information available **Autoignition Temperature** No information available **Decomposition Temperature** No information available No information available Kinematic viscosity Dynamic viscosity No information available **Explosive Properties** No information available **Oxidizing Properties** No information available

**Other Information** 

Softening Point
Molecular Weight
VOC Content
Density
No information available

### 10. STABILITY AND REACTIVITY

#### Reactivity

No data available

#### **Chemical Stability**

Stable under recommended storage conditions.

#### Possibility of Hazardous Reactions

None under normal processing.

**Conditions to Avoid** 

Protect from moisture.

# **Incompatible Materials**

Strong oxidizing agents.

# **Hazardous Decomposition Products**

Hydrogen chloride gas.

### 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

#### **Product Information**

**Inhalation** There is no data available for this product.

**Eye Contact** There is no data available for this product.

**Skin Contact** There is no data available for this product.

**Ingestion** There is no data available for this product.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Magnesium chloride, hexahydrate	= 8100 mg/kg ( Rat )	-	-

#### Information on toxicological effects

**Symptoms** No information available.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Sensitization** No information available.

Mutagenic EffectsNo information available.CarcinogenicityNo information available.

Chemical Name	ACGIH	IARC	NTP	OSHA
Magnesium chloride,	-	-	-	-
hexahydrate				

Reproductive Toxicity
STOT - single exposure
STOT - repeated exposure
No information available.
No information available.
No information available.

Target Organ Effects Kidneys, Central nervous system (CNS).

**Aspiration hazard** No information available.

#### Numerical measures of toxicity - Product Information

Unknown Acute Toxicity 0 % of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document .

# 12. ECOLOGICAL INFORMATION

# **Ecotoxicity**

100% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Toxicity to Fish	Crustacea
Magnesium chloride, hexahydrate	-	-	-

#### Persistence and Degradability

No information available.

### **Bioaccumulation/Accumulation**

No information available.

Chemical Name	Partition coefficient
Magnesium chloride, hexahydrate	-

Other Adverse Effects No information available

### 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

Waste Disposal Method Dispose of material in accordance with all federal, state, and local regulations.

**Contaminated Packaging** Do not re-use empty containers.

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Magnesium chloride, hexahydrate	-	-	-	-

Chemical Name	California Hazardous Waste Status
Magnesium chloride, hexahydrate	-

# 14. TRANSPORTINFORMATION

**DOT** Not regulated

IATA Not regulated

# 15. REGULATORY INFORMATION

**International Inventories** 

TSCA Does not comply
DSL/NDSL Does not comply
EINECS/ELINCS Does not Comply
ENCS Complies
IECSC Complies
KECL Does not Comply
PICCS Complies

Legend

**AICS** 

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

Complies

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

#### U.S. Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 313 - Threshold Values %
<u>-</u>

#### SARA 311/312 Hazard Categories

Acute Health Hazard

Chronic Health Hazard

Fire Hazard

Sudden Release of Pressure Hazard

No
Reactive Hazard

No

#### **Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Magnesium chloride, hexahydrate	-	-	-	-

#### CFRCI A

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Magnesium chloride, hexahydrate	-	-	-

### U.S. State Regulations

# **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

Chemical Name	California Prop. 65
Magnesium chloride, hexahydrate	-

#### **U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Magnesium chloride, hexahydrate	-	-	-

### **U.S. EPA Label Information**

**EPA Pesticide Registration Number** Not regulated

# **16. OTHER INFORMATION**

#### **Disclaimer**

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of Safety Data Sheet** 

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