

## SAFETY DATA SHEET

Creation Date 27-Jul-2010 Revision Date 10-Apr-2019 Revision Number 1

1. Identification

Product Name Magnesium sulfate, anhydrous

Cat No.: NC-11188, C5090

Synonyms Bitter salt; Epsom salt (Powder/Certified)

Recommended Use Laboratory chemicals

Uses advised against No Information available

Details of the supplier of the safety data sheet

CompanyEmergency Telephone NumberScience Company 87625CHEMTREC®, Inside the USA: 800-

W Hampden Ave #14 424-9300

Lakewood CO 80227 CHEMTREC®, Outside the USA: 001-

Tel: 303-777-3777 703-527-3887

## 2. Hazard(s) identification

#### Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Based on available data, the classification criteria are not met

#### **Label Elements**

None required

### Hazards not otherwise classified (HNOC)

None identified

# 3. Composition / information on ingredients

#### Haz/Non-haz

Haz/Noti Haz									
	Component	CAS-No	Weight %						
	Magnesium sulfate	7487-88-9	>95						

### 4. First-aid measures

**Eye Contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain

medical attention.

**Skin Contact** Wash off immediately with plenty of water for at least 15 minutes. Get medical attention

immediately if symptoms occur.

Inhalation Move to fresh air. If breathing is difficult, give oxygen. Get medical attention immediately if

symptoms occur.

No information available

Do not induce vomiting. Obtain medical attention. Ingestion

Most important symptoms/effects No information available **Notes to Physician** Treat symptomatically.

### Fire-fighting measures

Suitable Extinguishing Media Substance is nonflammable; use agent most appropriate to extinguish surrounding fire..

**Unsuitable Extinguishing Media** No information available.

Flash Point No information available. Method -No information available No information available.

**Autoignition Temperature** 

**Explosion Limits** 

Upper No data available No data available Lower

Sensitivity to Mechanical

**Impact** 

Sensitivity to Static Discharge No information available

#### **Specific Hazards Arising from the Chemical**

Thermal decomposition can lead to release of irritating gases and vapors.

**Hazardous Combustion Products** Sulfur oxides, Magnesium oxides.

#### **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.

**NFPA** 

Health **Physical hazards Flammability** Instability N/A

### Accidental release measures

**Personal Precautions** Use personal protective equipment. Ensure adequate ventilation. Avoid dust formation.

**Environmental Precautions** See Section 12 for additional ecological Information.

**Methods for Containment and Clean** Avoid dust formation. Sweep up or vacuum up spillage and collect in suitable container for Up

disposal.

# 7. Handling and storage

## 7. Handling and storage

Handling

Wear personal protective equipment. Ensure adequate ventilation. Avoid dust formation. Do

not breathe dust. Avoid contact with skin, eyes and clothing.

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

### 8. Exposure controls / personal protection

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

established by the region specific regulatory bodies.

Engineering Measures Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and

safety showers are close to the workstation location.

**Personal Protective Equipment** 

**Eye/face Protection** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's

eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166

**Skin and body protection** Wear appropriate protective gloves and clothing to prevent skin exposure.

**Respiratory Protection** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN

149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits

are exceeded or if irritation or other symptoms are experienced.

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

## 9. Physical and chemical properties

Physical StateSolidAppearanceOff-whiteOdorOdorless

Odor Threshold No information available.

 pH
 7.9 5% aq.sol.

 Melting Point/Range
 1124°C / 2055.2°F

 Description
 Name of the point of the po

Boiling Point/RangeNo information available.Flash PointNo information available.Evaporation RateNo information available.Flammability (solid, gas)No information available

Flammability or explosive limits

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UpperNo data availableLowerNo data availableVapor PressureNo information available.Vapor DensityNo information available.

Vapor DensityNo informationRelative Density2.65

Solubility
No information available.
Partition coefficient; n-octanol/water
No data available

Autoignition Temperature No data available No information available.

Decomposition temperature > 700°C

Viscosity No information available.

Molecular FormulaMg O4 SMolecular Weight120.37

## 10. Stability and reactivity

Reactive Hazard None known, based on information available.

Stability Hygroscopic.

**Conditions to Avoid** Avoid dust formation. Incompatible products. Exposure to moist air or water.

**Incompatible Materials** Strong oxidizing agents

Hazardous Decomposition Products Sulfur oxides, Magnesium oxides

**Hazardous Polymerization** Hazardous polymerization does not occur

None under normal processing **Hazardous Reactions** 

## 11. Toxicological information

**Acute Toxicity** 

**Product Information** No acute toxicity information is available for this product

**Component Information** 

**Toxicologically Synergistic** 

**Products** 

No information available.

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

Irritation No information available. Sensitization No information available.

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico	
Magnesium sulfate	7487-88-9	Not listed					

No information available. **Mutagenic Effects** No information available. **Reproductive Effects Developmental Effects** No information available. **Teratogenicity** No information available.

None known. STOT - single exposure STOT - repeated exposure None known.

No information available. **Aspiration hazard** Symptoms / effects,

both acute and delayed

No information available.

No information available **Endocrine Disruptor Information** 

**Other Adverse Effects** The toxicological properties have not been fully investigated.. See actual entry in RTECS for

complete information.

## Ecological information

### **Ecotoxicity**

Magnesium sulfate anhydrous

# 12. Ecological information

. Do not empty into drains.

Component	Component Freshwater Algae		Microtox	Water Flea		
Magnesium sulfate	2700 mg/L EC50 = 72 h	2610 - 3080 mg/L LC50 96 h	= 84000 mg/L EC50	1700 mg/L EC50 = 24 h		
		19000 mg/L LC50 24 h	Photobacterium	266.4 - 417.3 mg/L EC50 48		
			phosphoreum 30 min	h		
i						

Persistence and Degradability

Bioaccumulation/ Accumulation

No information available

No information available

## 13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a

hazardous waste. Chemical waste generators must also consult local, regional, and national

hazardous waste regulations to ensure complete and accurate classification

## 14. Transport information

DOTNot regulatedTDGNot regulatedIATANot regulatedIMDG/IMONot regulated

# 15. Regulatory information

#### International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Magnesium sulfate	X	Х	-	231-298-2	-		Х	Χ	Χ	X	X

#### Legend:

- X Listed
- E Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
- F Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
- N Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
- P Indicates a commenced PMN substance
- R Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
- S Indicates a substance that is identified in a proposed or final Significant New Use Rule
- T Indicates a substance that is the subject of a Section 4 test rule under TSCA.
- XU Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
- Y1 Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
- Y2 Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

### **U.S. Federal Regulations**

TSCA 12(b) Not applicable

SARA 313 Not applicable

SARA 311/312 Hazardous Categorization

Acute Health Hazard

Chronic Health Hazard

No
Fire Hazard

No
Sudden Release of Pressure Hazard

No
Reactive Hazard

No

Clean Water Act Not applicable

Clean Air Act Not applicable

**OSHA** Occupational Safety and Health Administration

Not applicable

**CERCLA**Not Applicable

California Proposition 65 This product does not contain any Proposition 65 chemicals.

State Right-to-Know Not applicable

**U.S. Department of Transportation** 

Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

**Other International Regulations** 

Mexico - Grade No information available

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class Non-controlled

### 16. Other information

Prepared By Regulatory Affairs

Science Company

Email: info@sciencecompany.com

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**Revision Summary** This document has been updated to comply with the US OSHA HazCom 2012 Standard

replacing the current legislation under 29 CFR 1910.1200 to align with the Globally

Harmonized System of Classification and Labeling of Chemicals (GHS).

Magnesium sulfate anhydrous

### Disclaimer

The information provided on this Safety Data Sheet 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 SDS**