

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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SECTION 1: Identification of the	substance/mixture and of the com	pany/undertaki	ng
1.1. Product identifier			
Product form	: Substance		
Substance name	: Magnesium Sulfate, Heptahydrate		
CAS No	: 10034-99-8		
Product code	: LC16490		
Formula	: MgSO4-7H2O		
Synonyms	: Epsom Salt		
	substance or mixture and uses advised ag	ainst	
Use of the substance/mixture	: For laboratory and manufacturing use		
1.3. Details of the supplier of the sa	, .	<b>,</b>	
LabChem Inc Jackson's Pointe Commerce Park Building Zelienople, PA 16063 - USA T 412-826-5230 - F 724-473-0647 info@labchem.com - www.labchem.com			
1.4. Emergency telephone number			
Emergency number	: CHEMTREC: 1-800-424-9300 or 011	1-703-527-3887	
SECTION 2: Hazards identification	on		
2.1. Classification of the substance			
	or mixture		
Classification (GHS-US)			
Not classified			
2.2. Label elements			
GHS-US labeling			
No labeling applicable			
2.2 Other herende			
2.3. Other hazards Other hazards not contributing to the	: None under normal conditions.		
classification	. None under normal conditions.		
2.4. Unknown acute toxicity (GHS-I	JS)		
Not applicable			
SECTION 3: Composition/inform	ation on ingredients		
3.1. Substance			
Substance type	: Mono-constituent		
Name	Product identifier	%	Classification (GHS-US)
Magnesium Sulfate, Heptahydrate (Main constituent)	(CAS No) 10034-99-8	100	Not classified
Full text of H-phrases: see section 16			,
3.2. Mixture			
Not applicable			
First-aid measures general	: Never give anything by mouth to an u advice (show the label where possibl		II you teel unwell, seek medical
First-aid measures after inhalation	: Allow victim to breathe fresh air. Allow	w the victim to rest.	
First-aid measures after skin contact	: Remove affected clothing and wash	all exposed skin area	a with mild soap and water, followed
First-aid measures after eye contact	by warm water rinse. Rinse immediately with plenty of water persist.	er. Obtain medical a	ttention if pain, blinking or redness
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomitir	ng. Obtain emergenc	ry medical attention.

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

4.2. Most important symp	ptoms and effects, both acute and delayed
Symptoms/injuries	: Not expected to present a significant hazard under anticipated conditions of normal use.
4.3. Indication of any imm	nediate medical attention and special treatment needed
Treat symptomatically. Obtain m	iedical assistance.
<b>SECTION 5: Firefighting</b>	measures
5.1. Extinguishing media	
Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.
	ing from the substance or mixture
No additional information availab	
5.3. Advice for firefighter	
Firefighting instructions	<ul> <li>Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.</li> </ul>
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental	
6.1. Personal precautions	s, protective equipment and emergency procedures
6.1.1. For non-emergency	personnel
Protective equipment	: Safety glasses. Gloves. Dust mask.
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency resp	onders
Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Ventilate area.
6.2. Environmental preca	utions
	plic waters. Notify authorities if liquid enters sewers or public waters.
6.3. Methods and materia	al for containment and cleaning up
Methods for cleaning up	: On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away
	from other materials.
6.4. Reference to other s	ections
See Heading 8. Exposure control	ols and personal protection.
<b>SECTION 7: Handling ar</b>	nd storage
7.1. Precautions for safe	
Precautions for safe handling	: Wash hands and other exposed areas with mild soap and water before eating, drinking or
Ū.	smoking and when leaving work. Provide good ventilation in process area to prevent formation
	of vapor.
	storage, including any incompatibilities
Storage conditions	: Keep container closed when not in use.
Incompatible products	: Strong bases.
Incompatible materials	: Sources of ignition. Direct sunlight.
7.3. Specific end use(s)	
No additional information available	ble
SECTION 8: Exposure c	ontrols/personal protection
8.1. Control parameters	
Magnesium Sulfate, Heptahy	rdrate (10034-99-8)
ACGIH	Not applicable
OSHA	Not applicable

- 8.2. **Exposure controls**
- Appropriate engineering controls

: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Personal protective equipment	: Avoid all unnecessary exposure.
Hand protection	: Wear protective gloves.
Eye protection	: Chemical goggles or safety glasses.
Respiratory protection	: Wear appropriate mask.
Other information	: Do not eat, drink or smoke during use.

# **SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and	I chemical properties
Physical state	: Solid
Molecular mass	: 246.48 g/mol
Color	: Colorless
Odor	: No data available
Odor threshold	: No data available
рН	: 5 - 8.2 5% solution
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: < 0.1 mm Hg
Relative vapor density at 20 °C	: No data available
Relative density	: 1.678
Solubility	: Soluble in water. Water: 710 g/l
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosive limits	: No data available

**Other information** 9.2.

No additional inf	ormation available
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SECT	ION 10: Stability and reactivity
10.1.	Reactivity
No add	itional information available
10.2.	Chemical stability
Hygros	copic.
10.3.	Possibility of hazardous reactions
Not est	ablished.
10.4.	Conditions to avoid
Direct s	unlight. Extremely high or low temperatures.
10.5.	Incompatible materials
Strong	bases.
10.6.	Hazardous decomposition products
Sulfur c	ompounds.

# Magnesium Sulfate, Heptahydrate Safety Data Sheet

Safety Data Sheet .ccording to Federal Register / Vol. 77, No. 58 / Monday,	, March 26, 2012 / Rules and Regulations
<b>SECTION 11: Toxicological informat</b>	tion
11.1. Information on toxicological effects	
Acute toxicity	: Not classified
Skin corrosion/irritation	: Not classified pH: 5 - 8.2 5% solution
Serious eye damage/irritation	: Not classified pH: 5 - 8.2 5% solution
Respiratory or skin sensitization Germ cell mutagenicity	Not classified Not classified
Carcinogenicity	: Not classified
Reproductive toxicity Specific target organ toxicity (single exposure)	: Not classified : Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Magnesium Sulfate, Heptahydrate (10034-99) Persistence and degradability	9-8) Not established.
12.3. Bioaccumulative potential	
Magnesium Sulfate, Heptahydrate (10034-99	
Bioaccumulative potential	Not established.
12.4.         Mobility in soil           No additional information available	
12.5. Other adverse effects	
Effect on ozone layer	:
Other information	: Avoid release to the environment.
SECTION 13: Disposal consideration	ns
13.1. Waste treatment methods	
Waste disposal recommendations Ecology - waste materials	<ul> <li>Dispose in a safe manner in accordance with local/national regulations.</li> <li>Avoid release to the environment.</li> </ul>
SECTION 14: Transport information	
In accordance with DOT	
Not regulated for transport	
Additional information	
Other information	: No supplementary information available.

# ADR

No additional information available

Transport by sea

No additional information available

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### Air transport

## No additional information available

# SECTION 15: Regulatory information

## 15.1. US Federal regulations

## Magnesium Sulfate, Heptahydrate (10034-99-8)

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

#### 15.2. International regulations

## CANADA

	Magnesium Sulfate, Heptahydrate (10034-99-8	)
	Listed on the Canadian DSL (Domestic Sustance	s List)
WHMIS Classification Uncontrolled product according to WHMIS classification criteria		

#### **EU-Regulations**

No additional information available

#### Classification according to Regulation (EC) No. 1272/2008 [CLP] Not classified

### Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Not classified

### 15.2.2. National regulations

# Magnesium Sulfate, Heptahydrate (10034-99-8)

Listed on the Canadian IDL (Ingredient Disclosure List)

#### 15.3. US State regulations

No additional information available

SECTION 16: Other inform	nation
Other information	: None.
NFPA health hazard	: 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.
NFPA fire hazard	: 0 - Materials that will not burn.
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
HMIS III Rating	
Health	: 1 Slight Hazard - Irritation or minor reversible injury possible
Flammability	: 0 Minimal Hazard
Physical	: 0 Minimal Hazard
Personal Protection	: E

SDS US (GHS HazCom 2012)

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