

# Magnesium sulfate heptahydrate Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) Date of issue: 7/27/2016 Revision date: 7/27/2016 Version: 3.00

SECTION 1: Identification of the	substance/mixture and of the company/undertaking			
1.1. Product identifier				
Trade name	: Epsom Salt			
	Epsom Salt pure, technical			
	Epsom Salt pure, technical, fine crystalline			
	Epsom Salt chemically pure			
Chemical name				
EC no	: 231-298-2 (anhydrate)			
CAS No : 10034-99-8				
1.2. Relevant identified uses of the	substance or mixture and uses advised against			
1.2.1. Relevant identified uses				
Use of the substance/mixture	: Industrial use			
1.2.2. Uses advised against				
No additional information available				
1.3. Details of the supplier of the sa	afety data sheet			
Supplier	Email competent person			
Intra-Laboratories Ltd Unit 8 Devonshire Meadows	admin@intralabs.co.uk			
Plymouth, Devon PL6 7EZ				
T 01752 724109				
1.4. Emergency telephone number				
Emergency number	: For Hazardous Materials [or Dangerous Goods] Incidents			
	Spill, Leak, Fire, Exposure, or Accident			
	Call CHEMTREC Day or Night			
	Within USA and Canada: 1-800-424-9300			
	Outside USA and Canada: +1 703-741-5970 (collect calls accepted)			
SECTION 2: Hazards identification	on			
2.1. Classification of the substance	e or mixture			
Classification according to Regulation (	EC) No. 1272/2008 [CLP]			
Not classified				
A design of the standard barries in the state				
Adverse physicochemical, human healt				
practice.	resent any particular risk, provided it is handled in accordance with good occupational hygiene and safety			
2.2. Label elements				
Labelling according to Regulation (EC)	No. 1272/2008 [CLP]			
No labelling applicable				
no iabelility applicable				
2.3. Other hazards				
	PBT criteria of REACH regulation, annex XIII			
This substance/mixture does not meet the	vPvB criteria of REACH regulation, annex XIII			
SECTION 3: Composition/inform	nation on ingredients			
3.1. Substance				
on ounstand				

Name	Product identifier
Magnesium sulfate heptahydrate	(CAS No) 10034-99-8 (EC no) 231-298-2 (anhydrate)

Full text of H-statements: see section 16

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



# 3.2. Mixture

### Not applicable

SECTION 4: First aid measures					
4.1. Description of first aid measures					
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.					
First-aid measures after skin contact : Wash skin with plenty of water.					
First-aid measures after eye contact	: Rinse eyes with water as a precaution.				
First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.					
4.2. Most important symptoms and efference of the symptometry of the s	ects, both acute and delayed				
4.3. Indication of any immediate medic	al attention and special treatment needed				
Treat symptomatically.					
SECTION 5: Firefighting measures					
5.1. Extinguishing media					
Suitable extinguishing media	: Water spray. Dry powder. Foam.				
Unsuitable extinguishing media	: No information available.				
5.2. Special hazards arising from the s	ubstance or mixture				
Hazardous decomposition products in case of	: Toxic fumes may be released.				
fire					
5.3. Advice for firefighters					
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.				
Other information	: Do not allow run-off from fire fighting to enter drains or water courses.				
SECTION 6: Accidental release mea					
	quipment and emergency procedures				
6.1.1. For non-emergency personnel					
Emergency procedures	: Ventilate spillage area.				
6.1.2. For emergency responders					
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".				
6.2. Environmental precautions					
Do not allow into drains or water courses.					
6.3. Methods and material for containm	nent and cleaning up				
Methods for cleaning up	: Mechanically recover the product.				
Other information	: Dispose of materials or solid residues at an authorized site.				
6.4. Reference to other sections					
	Concerning personal protective equipment to use, see section 8. For further information refer to				
SECTION 7: Handling and storage					
7.1. Precautions for safe handling					
Precautions for safe handling	: Ensure good ventilation of the work station. Wear personal protective equipment.				
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.				
7.2. Conditions for safe storage, includ	ing any incompatibilities				
Storage conditions	: Store in a well-ventilated place. Keep cool.				
7.3. Specific end use(s)					
Industrial use.					
SECTION 8: Exposure controls/per	sonal protection				
8.1. Control parameters					

No additional information available

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

#### 8.2. Exposure controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### Hand protection:

Chemical resistant PVC gloves (to European standard EN 374 or equivalent). Nitrile rubber

#### Eye protection:

Safety glasses

#### Skin and body protection:

Wear suitable protective clothing

#### **Respiratory protection:**

In case of insufficient ventilation, wear suitable respiratory equipment. Dust production: dust mask with filter type P1

#### Environmental exposure controls:

Avoid release to the environment.

<b>SECTION 9: Physical and chemical</b>	properties	
9.1. Information on basic physical and	chemical properties	
Physical state	: Solid	
Appearance	: Crystalline powder.	
Colour	: white.	
Odour	: none to slight.	
Odour threshold	: No data available	
рН	: 8 (25 °C; aqueous solution)	
Relative evaporation rate (butylacetate=1)	: Not applicable	
Melting point	: 770 °C	
Freezing point	: Not applicable	
Boiling point	: Not applicable	
Flash point	: Not applicable	
Auto-ignition temperature	: Not applicable	
Decomposition temperature	: Not applicable	
Flammability (solid, gas)	: Not flammable Non flammable	
Vapour pressure	: Not applicable	
Relative vapour density at 20 °C	: Not applicable	
Relative density	: Not applicable	
Density	: 1.7 g/cm <sup>3</sup>	
Solubility	: Water: 342 g/l Soluble	
Log Pow	: Not applicable	
Viscosity, kinematic	: Not applicable	
Viscosity, dynamic	: Not applicable	
Explosive properties	: Product is not explosive.	
Oxidising properties	: Not applicable.	
Explosive limits	: Not applicable	
9.2. Other information		
Bulk density	: 980 kg/m³	
SECTION 10: Stability and reactivity		

#### SECTION 10: Stability and reactivity 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### 10.2. Chemical stability

Stable under normal conditions.

# 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

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## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

#### **10.4.** Conditions to avoid

None under recommended storage and handling conditions (see section 7).

# 10.5. Incompatible materials

No additional information available.

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

<b>SECTION 11: Toxicological informat</b>	ion
11.1. Information on toxicological effects	
Acute toxicity	: Not classified (Based on available data, the classification criteria are not met)
Magnesium sulfate heptahydrate (10034-99-	8)
LD50 oral rat	> 2000 mg/kg
LD50 dermal rat	> 2000 mg/kg
Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met)
	pH: 8 (25 °C; aqueous solution)
Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met)
	pH: 8 (25 °C; aqueous solution)
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
Specific target organ toxicity (single exposure)	: Not classified (Based on available data, the classification criteria are not met)
Specific target organ toxicity (repeated exposure)	: Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard	: Not classified (Not specifically applicable)

<b>SECTION 12: Ecological information</b>	1
12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Magnesium sulfate heptahydrate (10034-99	-8)

Magnesium sunate neptanyurate (10034-33-8)		
LC50 fish 1	680 mg/l Pimephales promelas	
EC50 Daphnia 1	720 mg/l	

12.2. Persistence and degradability	
Magnesium sulfate heptahydrate (10034-99-8)	
Persistence and degradability	Not applicable.
12.3. Bioaccumulative potential	
Magnesium sulfate heptahydrate (10034-99-8)	
Log Pow	Not applicable
12.4. Mobility in soil	
Magnesium sulfate heptahydrate (10034-99-8)	
Ecology - soil	Not applicable.
12.5. Results of PBT and vPvB assessment	
Magnesium sulfate heptahydrate (10034-99-8)	
This substance/mixture does not meet the PBT cr	iteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB c	riteria of REACH regulation, annex XIII
12.6. Other adverse effects	
Other adverse effects :	No additional information available.
SECTION 13: Disposal considerations	

SECT	SECTION 13: Disposal considerations		
13.1.	Waste treatment methods		
Waste t	reatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.	



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

# **SECTION 14: Transport information**

#### In accordance with ADR / RID / IMDG / IATA / ADN



In accordance with ADR / RID / IMDG / IATA / ADN				
ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipp	ing name		-	
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard	14.3. Transport hazard class(es)			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group	14.4. Packing group			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available				

#### 14.6. Special precautions for user

#### - Overland transport

Not applicable

## - Transport by sea

Not applicable

## - Air transport

Not applicable

# - Inland waterway transport

Not applicable

#### - Rail transport

Not applicable

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable

### **SECTION 15: Regulatory information**

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions Magnesium sulfate heptahydrate is not on the REACH Candidate List

#### 15.1.2. National regulations

No additional information available

#### 15.2. Chemical safety assessment

A safety data sheet is not required for this product under Article 31 of REACH. This Product Safety Information Sheet has been created on a voluntary basis

No chemical safety assessment has been carried out

#### **SECTION 16: Other information**

Indication of changes:

None.

Abbreviations and acronyms:

International Maritime Dangerous Goods
European Agreement concerning the International Carriage of Dangerous Goods by Road
European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
Regulations concerning the International Carriage of Dangerous Goods by Rai
International Air Transport Association
Globally Harmonised System of Classification and Labelling of Chemicals

# Safety Data Sheet



according to Regulation (EC) No. 1907/2006 (REACH)

CAS	Chemical Abstract Service
LD50	Median lethal dose
LC50	Median lethal concentration
PBT	Persistent Bioaccumulative Toxic
vPvB	Very Persistent and Very Bioaccumulative

Department issuing data specification sheet: : Intra-Laboratories Ltd

Unit 8, Devonshire Meadows, Plymouth, Devon. PL6 7EZ.

Phone: 01752 724109 Safety Data Sheet Service: 01752 724109

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product