



Material Safety Data Sheet

Magnesium Sulphate MSDS

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Magnesium Sulphate

CAS#: 7487-88-9

Synonyms: Epsom Salts

Company Identification:

PPEC Ltd, Sheepmarsh Lane, North Cotes Lincolnshire, DN36 5UU

For information call: 07741 161471 | 01472 389 545

Emergency Number: 07741 161471

SECTION 2: COMPOSITION AND INFORMATION ON INGREDIENTS

Component	CAS-No	Weight%
Magnesium Sulphate	7487-88-9	>95

SECTION 3: HAZARDS IDENTIFICATION

Classification

Based on available data, the classification criteria are not met

Label Elements

None Required



SECTION 4: FIRST AID MEASURES

Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention if symptoms occur.

Skin Contact

Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.

Inhalation

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

Ingestion

Do not induce vomiting. Obtain medical attention

Most important symptoms/effects

No information available.

Notes to Physician: Treat symptomatically

SECTION 5: FIRE AND EXPLOSION DATA

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

Autoignition Temperature

Explosion Limits

Upper - No data available

Lower - No data available

Sensitivity to Mechanical Impact - No information available

Sensitivity to Static Discharge - No information available

Specific Hazards Arising from the Chemical

Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes.



Hazardous Combustion Products: sulphur 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	Flammability	Instability	Physical Hazards
1	0	1	N/A

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions

Use personal protective equipment. Ensure adequate ventilation. Avoid dust formation.

Environmental Precautions

Avoid release to the environment. See Section 12 for additional ecological Information.

Methods for Containment and Clean Up

Avoid dust formation. Sweep up or vacuum up spillage and collect in suitable container for disposal.

SECTION 7: HANDLING AND STORAGE

Handling

Wear personal protective equipment. Ensure adequate ventilation. Avoid contact with skin and eyes. Avoid ingestion and inhalation. Avoid dust formation.

Storage

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



SECTION 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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid
Appearance	White
Odor	Odorless
Odor Threshold	No information available
pH	5-8.2 5% aq. sol
Melting Point/Range	1124°C
Boiling Point/Range	No information available
Flash Point	Not applicable
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	<0.1 mmHg @ 20 °C



Vapor Density	Not applicable
Relative Density	1.678
Solubility	Slightly soluble in water
Partition coefficient; n-octanol/water	No data available
Decomposition Temperature	> 150°C
Viscosity	Not applicable
Molecular Formula	Mg O4 S . 7 H2 O
Molecular Weight	246.48

SECTION 10: STABILITY AND REACTIVITY DATA

Reactive Hazard: None known, based on information available

Stability: Hygroscopic.

Conditions to Avoid: Avoid dust formation. Incompatible products. Exposure to moist air or water. Excess heat.

Incompatible Materials: none known

Hazardous Decomposition Products: Sodium oxides

Hazardous Polymerization: Hazardous polymerization does not occur.

Hazardous Reactions: Thermal decomposition.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity

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

Oral LD50: Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.

Dermal LD50: Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.

Mist LC50: Based on ATE data, the classification criteria are not met. ATE > 5 mg/l.

Component Information

Toxicologically Synergistic No Information Available

Products

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 Sulphate	7487-88-9	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed

Mutagenic Effects: No information available

Reproductive Effects: No information available

Developmental Effects: No information available

Teratogenicity: No information available

STOT - single exposure: None Known

STOT - repeated exposure: None Known

Aspiration hazard: No information available

Symptoms / effects, both acute and delayed: No information available

Endocrine Disruptor Information: No information available

Other Adverse Effects:

The toxicological properties have not been fully investigated.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:

Do not empty into drains

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

Persistence and Degradability: No information available.

Bioaccumulation/ Accumulation No information available.

Mobility: No information available.

SECTION 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.

SECTION 14: TRANSPORT INFORMATION



DOT: Not Regulated

TDG: Not Regulated

IATA: Not Regulated

IMDG/IMO: Not Regulated

SECTION 15: OTHER REGULATORY INFORMATION

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Magnesium Sulfate	X	X	-	231-298-2	-		X	X	X	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.

SECTION 16: OTHER INFORMATION

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if cienceLab.com has been advised of the possibility of such damages