

## SAFETY DATA SHEET

Magnesium acetate

According to Regulation (EC) No 1907/2006, Annex II, as amended. Commission Regulation (EU) No 2015/830 of 28 May 2015.

SECTION 1: Identification of th	e substance/mixture and of the company/undertaking
1.1. Product identifier	
Product name	Magnesium acetate
Product number	89981960
CAS number	142-72-3
EC number	205-554-9
1.2. Relevant identified uses of	f the substance or mixture and uses advised against
Identified uses	For research purposes only.
Uses advised against	No specific uses advised against are identified.
1.3. Details of the supplier of the	ne safety data sheet
Supplier	Molekula Ltd. Lingfield Way, Darlington, DL1 4XX, United Kingdom +44 (0) 3302000333 info@molekula.com
1.4. Emergency telephone nun	nber
+44 (0) 1380 725952	
SECTION 2: Hazards identifica	ation
2.1. Classification of the substa	ance or mixture
Classification (EC 1272/2008)	
Physical hazards	Not Classified
Health hazards	Not Classified
Environmental hazards	Not Classified
2.2. Label elements	
EC number	205-554-9

Hazard statements NC Not Classified

#### 2.3. Other hazards

This substance is not classified as PBT or vPvB according to current EU criteria.

### **SECTION 3: Composition/information on ingredients**

### 3.1. Substances

Product name	Magnesium acetate	
CAS number	142-72-3	
EC number	205-554-9	
Chemical formula	C4H6MgO4	
SECTION 4: First aid measure	98	
4.1. Description of first aid me	pasures	
General information	If in doubt, get medical attention promptly. Show this Safety Data Sheet to the medical personnel.	
Inhalation	No specific recommendations. If throat irritation or coughing persists, proceed as follows. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Loosen tight clothing such as collar, tie or belt. Get medical attention if any discomfort continues.	
Ingestion	No specific recommendations. If throat irritation or coughing persists, proceed as follows. Rinse mouth. Get medical attention if any discomfort continues.	
Skin contact	No specific recommendations. Rinse with water. Get medical attention if any discomfort continues.	
Eye contact	Remove any contact lenses and open eyelids wide apart. Rinse with water. Get medical attention if any discomfort continues.	
Protection of first aiders	Use protective equipment appropriate for surrounding materials.	
4.2. Most important symptoms	s and effects, both acute and delayed	
General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.	
Inhalation	A single exposure may cause the following adverse effects: Temporary irritation.	
Ingestion	May cause discomfort if swallowed.	
Skin contact	Prolonged contact may cause dryness of the skin.	
Eye contact	May be slightly irritating to eyes.	
4.3. Indication of any immedia	te medical attention and special treatment needed	
Notes for the doctor	Treat symptomatically.	
Specific treatments	No special treatment required.	
SECTION 5: Firefighting measurements	sures	
5.1. Extinguishing media		
Suitable extinguishing media	Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire- extinguishing media suitable for the surrounding fire.	
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.	
5.2. Special hazards arising from the substance or mixture		
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Specific hazards None known.

Hazardous combustion products	Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours. Carbon dioxide (CO2). Carbon monoxide (CO). Oxides of the following substances: Magnesium.
5.3. Advice for firefighters	
Protective actions during firefighting	Avoid breathing fire gases or vapours. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out.
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents.
SECTION 6: Accidental release	e measures
6.1. Personal precautions, pro	tective equipment and emergency procedures
Personal precautions	No specific recommendations. For personal protection, see Section 8.
6.2. Environmental precaution	S
Environmental precautions	Avoid discharge into drains or watercourses or onto the ground.
6.3. Methods and material for	containment and cleaning up
Methods for cleaning up	Reuse or recycle products wherever possible. Collect spillage with a shovel and broom, or similar and reuse, if possible. Collect and place in suitable waste disposal containers and seal securely. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dispose of contents/container in accordance with national regulations.
6.4. Reference to other section	ns
Reference to other sections	For personal protection, see Section 8. For waste disposal, see Section 13.
SECTION 7: Handling and sto	rage
7.1. Precautions for safe hand	ling
Usage precautions	Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Keep container tightly sealed when not in use.
Advice on general occupational hygiene	Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse.
7.2. Conditions for safe storag	e, including any incompatibilities
Storage precautions	Store away from incompatible materials (see Section 10). Moisture sensitive. Store under inert gas.
Storage class	Unspecified storage.
7.3. Specific end use(s)	
Specific end use(s)	The identified uses for this product are detailed in Section 1.2.
SECTION 8: Exposure control	s/Personal protection
8.1. Control parameters	

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8.2. Exposure controls	
Appropriate engineering controls	No specific ventilation requirements.
Eye/face protection	No specific eye protection required during normal use. Large Spillages: Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible.
Hand protection	No specific hand protection recommended. Large Spillages: Wear protective gloves.
Hygiene measures	Wash after use and before eating, smoking and using the toilet. Do not eat, drink or smoke when using this product.
Respiratory protection	No specific recommendations. Provide adequate ventilation. Large Spillages: If ventilation is inadequate, suitable respiratory protection must be worn.
Environmental exposure controls	Not regarded as dangerous for the environment.

## SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Appearance	Solid.
Colour	White.
Odour	Not known.
Odour threshold	No information available.
рН	No information available.
Melting point	327.4°C/621.32°F
Initial boiling point and range	No information available.
Flash point	No information available.
Evaporation rate	No information available.
Flammability (solid, gas)	No information available.
Upper/lower flammability or explosive limits	No information available.
Vapour pressure	No information available.
Vapour density	No information available.
Relative density	1.42
Solubility(ies)	Very soluble in the following materials: Water. Alcohols. Methanol.
Partition coefficient	log Pow: -1.38
Auto-ignition temperature	310°C/590°F
Decomposition Temperature	No information available.
9.2. Other information	

Molecular weight	142.40
SECTION 10: Stability and rea	activity
10.1. Reactivity	
Reactivity	See the other subsections of this section for further details.
10.2. Chemical stability	
Stability	Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.
10.3. Possibility of hazardous	reactions
Possibility of hazardous reactions	No potentially hazardous reactions known.
10.4. Conditions to avoid	
Conditions to avoid	Protect from moisture.
10.5. Incompatible materials	
Materials to avoid	Strong oxidising agents.
10.6. Hazardous decompositio	on products
Hazardous decomposition products	Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours. Carbon dioxide (CO2). Carbon monoxide (CO). Oxides of the following substances: Magnesium.
SECTION 11: Toxicological in	formation
SECTION 11: Toxicological in 11.1. Information on toxicologi	
11.1. Information on toxicolog	ical effects
11.1. Information on toxicolog	
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<u>11.1. Information on toxicolog</u> <u>Acute toxicity - oral</u> Summary Acute toxicity - dermal	<i>ical effects</i> Based on available data the classification criteria are not met.
<u>11.1. Information on toxicolog</u> Acute toxicity - oral Summary Acute toxicity - dermal Summary Acute toxicity - inhalation	<i>ical effects</i> Based on available data the classification criteria are not met. Based on available data the classification criteria are not met.
<u>11.1. Information on toxicolog</u> Acute toxicity - oral Summary <u>Acute toxicity - dermal</u> Summary <u>Acute toxicity - inhalation</u> Summary Skin corrosion/irritation	<i>ical effects</i> Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met.
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Summary	Based on available data the classification criteria are not met.
IARC carcinogenicity	None of the ingredients are listed or exempt.
Reproductive toxicity	
Summary	Based on available data the classification criteria are not met.
Specific target organ toxicity -	
Summary	Based on available data the classification criteria are not met.
Specific target organ toxicity -	
Summary	Based on available data the classification criteria are not met.
Aspiration hazard	Not relevant. Solid.
Summary	Not relevant. Solid.
General information	No specific health hazards known. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	A single exposure may cause the following adverse effects: Temporary irritation.
Ingestion	May cause discomfort if swallowed.
Skin contact	Prolonged contact may cause dryness of the skin.
Eye contact	May be slightly irritating to eyes.
Route of exposure	Ingestion Inhalation Skin and/or eye contact
Target organs	No specific target organs known.
SECTION 12: Ecological infor	mation
SECTION 12: Ecological infor Ecotoxicity	mation Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.
	Not regarded as dangerous for the environment. However, large or frequent spills may have
Ecotoxicity	Not regarded as dangerous for the environment. However, large or frequent spills may have
Ecotoxicity <u>12.1. Toxicity</u>	Not regarded as dangerous for the environment. However, large or frequent spills may have
Ecotoxicity <u>12.1. Toxicity</u> <u>Acute aquatic toxicity</u> Summary <u>Chronic aquatic toxicity</u>	Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment. Based on available data the classification criteria are not met.
Ecotoxicity <u>12.1. Toxicity</u> <u>Acute aquatic toxicity</u> Summary <u>Chronic aquatic toxicity</u> Summary	Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met.
Ecotoxicity <u>12.1. Toxicity</u> <u>Acute aquatic toxicity</u> Summary <u>Chronic aquatic toxicity</u> Summary <u>12.2. Persistence and degrade</u>	Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met.
Ecotoxicity <u>12.1. Toxicity</u> <u>Acute aquatic toxicity</u> Summary <u>Chronic aquatic toxicity</u> Summary <u>12.2. Persistence and degrade</u>	Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met.
Ecotoxicity <u>12.1. Toxicity</u> <u>Acute aquatic toxicity</u> Summary <u>Chronic aquatic toxicity</u> Summary <u>12.2. Persistence and degrade</u>	Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. <u>ability</u> The degradability of the product is not known.
Ecotoxicity <u>12.1. Toxicity</u> <u>Acute aquatic toxicity</u> Summary <u>Chronic aquatic toxicity</u> Summary <u>12.2. Persistence and degrad.</u> Persistence and degradability	Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. <u>ability</u> The degradability of the product is not known.
Ecotoxicity <u>12.1. Toxicity</u> <u>Acute aquatic toxicity</u> Summary <u>Chronic aquatic toxicity</u> Summary <u>12.2. Persistence and degrada</u> Persistence and degradability <u>12.3. Bioaccumulative potentia</u>	Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. <b>ability</b> The degradability of the product is not known.
Ecotoxicity <u>12.1. Toxicity</u> <u>Acute aquatic toxicity</u> Summary <u>Chronic aquatic toxicity</u> Summary <u>12.2. Persistence and degrada</u> Persistence and degradability <u>12.3. Bioaccumulative potential</u>	Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. <b>ability</b> The degradability of the product is not known. <b>al</b> No data available on bioaccumulation.
Ecotoxicity <u>12.1. Toxicity</u> <u>Acute aquatic toxicity</u> Summary <u>Chronic aquatic toxicity</u> Summary <u>12.2. Persistence and degrada</u> Persistence and degradability <u>12.3. Bioaccumulative potential</u> Bioaccumulative potential Partition coefficient	Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. <b>ability</b> The degradability of the product is not known. <b>al</b> No data available on bioaccumulation.
Ecotoxicity          12.1. Toxicity         Acute aquatic toxicity         Summary         Chronic aquatic toxicity         Summary         12.2. Persistence and degrada         Persistence and degradability         12.3. Bioaccumulative potential         Bioaccumulative potential         Partition coefficient         12.4. Mobility in soil	Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. <b>ability</b> The degradability of the product is not known. <b>af</b> No data available on bioaccumulation. log Pow: -1.38 No data available.
Ecotoxicity          12.1. Toxicity         Acute aquatic toxicity         Summary         Chronic aquatic toxicity         Summary         12.2. Persistence and degrada         Persistence and degradability         12.3. Bioaccumulative potential         Bioaccumulative potential         Partition coefficient         12.4. Mobility in soil         Mobility	Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. <b>ability</b> The degradability of the product is not known. <b>af</b> No data available on bioaccumulation. log Pow: -1.38 No data available.
Ecotoxicity          12.1. Toxicity         Acute aquatic toxicity         Summary         Chronic aquatic toxicity         Summary         12.2. Persistence and degrada         Persistence and degradability         12.3. Bioaccumulative potential         Bioaccumulative potential         Partition coefficient         12.4. Mobility in soil         Mobility         12.5. Results of PBT and vPv	Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. <b>ability</b> The degradability of the product is not known. <b>af</b> No data available on bioaccumulation. log Pow: -1.38 No data available.

#### 13.1. Waste treatment methods

General information	The generation of waste should be minimised or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way.
Disposal methods	Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste packaging should be collected for reuse or recycling. Incineration or landfill should only be considered when recycling is not feasible. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of the local water authority.

#### SECTION 14: Transport information

General

The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

#### 14.1. UN number

Not applicable.

### 14.2. UN proper shipping name

Not applicable.

#### 14.3. Transport hazard class(es)

No transport warning sign required.

#### 14.4. Packing group

Not applicable.

#### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant No.

#### 14.6. Special precautions for user

Not applicable.

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

Transport in bulk according to Not applicable. Annex II of MARPOL 73/78 and the IBC Code

## SECTION 15: Regulatory information

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

National regulations	Health and Safety at Work etc. Act 1974 (as amended). The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"]. EH40/2005 Workplace exposure limits.
EU legislation	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). Commission Regulation (EU) No 2015/830 of 28 May 2015. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

#### Inventories

**EU - EINECS/ELINCS** 

None of the ingredients are listed or exempt.

## US - TSCA

Present.

#### SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheetADR: European Agreement concerning the International Carriage of Dangerous Goods Road.ADN: European Agreement concerning the International Carriage of Dangerous Goods Inland Waterways.RID: European Agreement concerning the International Carriage of Dangerous Goods to Rail.IATA: International Air Transport Association.ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.IMDG: International Maritime Dangerous Goods.CAS: Chemical Abstracts Service.ATE: Acute Toxicity Estimate.ICso: Lethal Concentration to 50 % of a test population.LDso: Lethal Dose to 50% of a test population.ECso: 50% of maximal Effective Concentration.PBT: Persistent, Bioaccumulative and Toxic substance. vPVB: Very Persistent and Very Bioaccumulative.	by
Training advice       Only trained personnel should use this material.	
Revision date 03/08/2021	
Revision 1	
SDS number 279	

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