

**Section 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier****Product name:** MAGNESIUM SULPHATE**REACH registered number(s):** 01-2119486789-11-XXXX**CAS number:** 7487-88-9**EINECS number:** 231-298-2**Product code:** MAGSUL**Synonyms:** EPSOM SALTS**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of substance / mixture:** Beverage Processing Aids and Other Usages**1.3. Details of the supplier of the safety data sheet****Company name:** Murphy and Son Ltd

Murphy &amp; Son Ltd

Alpine St, Old Basford

Nottingham

NG6 0HQ

United Kingdom

**Tel:** (+44) 115 978 5494**Email:** technical@murphyandson.co.uk**1.4. Emergency telephone number****Emergency tel:** (+44) 115 978 5494

(office hours only)

**Section 2: Hazards identification****2.1. Classification of the substance or mixture****Classification under CLP:** This product has no classification under CLP.**2.2. Label elements****Label elements:** This product has no label elements.**2.3. Other hazards****PBT:** This product is not identified as a PBT/vPvB substance.**Section 3: Composition/information on ingredients**

# SAFETY DATA SHEET

## MAGNESIUM SULPHATE

Page: 2

### 3.1. Substances

**Chemical identity:** MAGNESIUM SULPHATE

**CAS number:** 7487-88-9

**EINECS number:** 231-298-2

**REACH registered number(s):** 01-2119486789-11-XXXX

## Section 4: First aid measures

### 4.1. Description of first aid measures

**Skin contact:** Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water. Obtain medical attention if ill effect or irritation develops

**Eye contact:** Bathe the eye with running water for 15 minutes. Obtain medical attention if pain, blinking, tears or redness persist.

**Ingestion:** Wash out mouth with water. Seek medical attention if ill effect develops Do not induce vomiting.

**Inhalation:** Move to fresh air in case of accidental inhalation of vapours. Rinse nose and mouth with water. Obtain medical attention if breathing difficulty and / or other complaints appear

### 4.2. Most important symptoms and effects, both acute and delayed

**Skin contact:** There may be irritation and redness at the site of contact.

**Eye contact:** There may be irritation and pain.

**Ingestion:** May cause digestive tract irritation.

**Inhalation:** May cause respiratory irritation.

### 4.3. Indication of any immediate medical attention and special treatment needed

## Section 5: Fire-fighting measures

### 5.1. Extinguishing media

**Extinguishing media:** Suitable extinguishing media for the surrounding fire should be used.

### 5.2. Special hazards arising from the substance or mixture

**Exposure hazards:** Irritating vapours / gases may be formed.

### 5.3. Advice for fire-fighters

**Advice for fire-fighters:** Wear protective clothing to prevent contact with skin and eyes.

## Section 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions:** Do not create dust.

### 6.2. Environmental precautions

**Environmental precautions:** Do not discharge into drains or rivers.

[cont...]

# SAFETY DATA SHEET

MAGNESIUM SULPHATE

Page: 3

## 6.3. Methods and material for containment and cleaning up

**Clean-up procedures:** Transfer to a suitable container. Wash the spillage site with large amounts of water.

## 6.4. Reference to other sections

## Section 7: Handling and storage

### 7.1. Precautions for safe handling

**Handling requirements:** Avoid contact with skin, eyes and clothing. Avoid the formation or spread of dust in the air.

Do not breathe dust or fumes Ensure there is sufficient ventilation of the area.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage conditions:** Store in a cool, well ventilated area.

### 7.3. Specific end use(s)

**Specific end use(s):** Beverage Processing Aids and Other Usages

## Section 8: Exposure controls/personal protection

### 8.1. Control parameters

**Workplace exposure limits:** No data available.

### DNEL/PNEC Values

**DNEL / PNEC** No data available.

### 8.2. Exposure controls

**Engineering measures:** Ensure there is sufficient ventilation of the area. Observe occupational exposure limits and minimize the risk of inhalation of dust.

**Respiratory protection:** No specific recommendation made, but protection against nuisance dust must be used when the general level exceeds 10 mg/m<sup>3</sup>

**Hand protection:** Protective gloves.

**Eye protection:** Safety goggles.

**Skin protection:** Protective clothing.

## Section 9: Physical and chemical properties

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

**State:** Powder

**Colour:** White

**Odour:** Odourless

**Evaporation rate:** No data available.

**Oxidising:** No data available.

**Solubility in water:** Soluble

**Also soluble in:** Ethanol.

**Viscosity:** No data available.

[cont...]

# SAFETY DATA SHEET

MAGNESIUM SULPHATE

Page: 4

**Boiling point/range°C:** No data available.

**Melting point/range°C:** 770C

**Flammability limits %: lower:** No data available.

**upper:** No data available.

**Flash point°C:** No data available.

**Part.coeff. n-octanol/water:** No data available.

**Autoflammability°C:** No data available.

**Vapour pressure:** No data available.

**Relative density:** 1.7

**pH:** 8

**VOC g/l:** No data available.

## 9.2. Other information

**Other information:** No data available.

## Section 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity:** Stable under recommended transport or storage conditions.

### 10.2. Chemical stability

**Chemical stability:** Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

### 10.4. Conditions to avoid

**Conditions to avoid:** Excessive heat Moisture Water

### 10.5. Incompatible materials

### 10.6. Hazardous decomposition products

**Haz. decomp. products:** In combustion emits toxic fumes of sulphur oxides.

## Section 11: Toxicological information

### 11.1. Information on toxicological effects

**Toxicity values:** No data available.

### Symptoms / routes of exposure

**Skin contact:** There may be irritation and redness at the site of contact.

**Eye contact:** There may be irritation and pain.

**Ingestion:** May cause digestive tract irritation.

**Inhalation:** May cause respiratory irritation.

## Section 12: Ecological information

### 12.1. Toxicity

**Ecotoxicity values:**

Species	Test	Value	Units
---------	------	-------	-------

[cont...]

# SAFETY DATA SHEET

MAGNESIUM SULPHATE

Page: 5

Daphnia magna	48H EC50	720	mg/l
---------------	----------	-----	------

## 12.2. Persistence and degradability

**Persistence and degradability:** Not applicable.

## 12.3. Bioaccumulative potential

**Bioaccumulative potential:** Not applicable.

## 12.4. Mobility in soil

**Mobility:** Not applicable.

## 12.5. Results of PBT and vPvB assessment

**PBT identification:** This product is not identified as a PBT/vPvB substance.

## 12.6. Other adverse effects

## Section 13: Disposal considerations

### 13.1. Waste treatment methods

**Disposal operations:** Dispose in a safe manner in accordance with local/national regulations.

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

## Section 14: Transport information

**Transport class:** This product does not require a classification for transport.

## Section 15: Regulatory information

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

### 15.2. Chemical Safety Assessment

**Chemical safety assessment:** A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

## Section 16: Other information

### Other information

**Other information:** This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.

\* indicates text in the SDS which has changed since the last revision.

**Legend to abbreviations:** PNEC = predicted no effect concentration

DNEL = derived no effect level

LD50 = median lethal dose

LC50 = median lethal concentration

LDLO = lethal dose low

EC50 = median effective concentration

[cont...]

## SAFETY DATA SHEET

### MAGNESIUM SULPHATE

Page: 6

IC50 = median inhibitory concentration

dw = dry weight

bw = body weight

cc = closed cup

oc = open cup

MUS = mouse

GPG = guinea pig

RBT = rabbit

HAM = hamster

HMN = human

MAM = mammal

PGN = pigeon

IVN = intravenous

IPR = intraperitoneal

SCU = subcutaneous

ORL = oral

SKN = skin

DRM = dermal

OCC = ocular/corneal

OPT = optical

ING = ingestion

INH = inhalation

PCP = physico-chemical properties

**Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.