

# Description

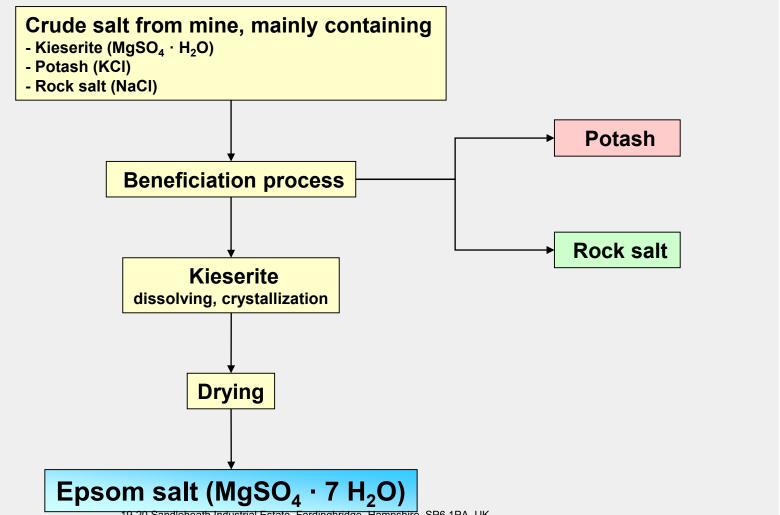
Epsom Salts Batch No.(s): 4441308 Best Before Date: August 2024

# **Certificate of Conformity**

We confirm that the above product delivered to you will conform to the manufacturer's specification. Details of this can be found on the product specification sheet. Keep in cool, dry, well-ventilated area. Keep containers tightly closed. Store in correctly labelled containers.



# **Production process of Epsom salt**



19-20 Sandleheath Industrial Estate, Fordingbridge, Hampshire, SP6 1PA, UK



# **GMO Statement**

PRODUCT NAME: Epsom Salts

MADAR Corporation Limited can confirm that the above listed product is GMO Free.

02/03/2020



Revised on 10.6.2015 v2

# Section 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product Name EPSOM SALT

REACH reg no 01-2119486789-11-XXXX

CAS-No 7487-88-9 EC No 231-298-2

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Industrial, professional and consumer uses. Fertilisers. Laboratory chemicals.

"Leather tanning, dye, finishing, impregnation and care products". Textile dyes. Adhesives. Sealant. Paper treatment. Some grades of substance are

available for feed/food use; Feed material. (# 11.2.2)

Uses advised against None Known.

#### 1.3. Details of the supplier of the safety data sheet

Company MADAR Corporation Limited

19-20 Sandleheath Industrial Estate

Fordingbridge SP6 1PA

United Kingdom (0044) 1425 655555

Email technical@madarcorporation.co.uk

Approved Sellers Cosmetic Butters, Mystic Moments, New Directions, World of Moulds

Emergency Telephone 999 emergency services (UK only) 112 emergency services (Europe only)

**Section 2: Hazards Identification** 

#### 2.1. Classification of the substance or mixture

Classification

Tel

Physical Hazards
Not classified.
Health Hazards
Not classified.
Environmental Hazards
Not classified.



2.2. Label elements

EC No. 231-298-2 Hazard statements NC Not classified

2.3. Other hazards

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

#### Section 3: Composition/information on ingredients

#### 3.1 Substances

Product name EPSOM SALTS/ MAGNESIUM SULPHATE HEPTAHYDRATE

REACH reg no 01-2119486789-11-XXXX

CAS No. 7487-88-9 EC No. 231-298-2 Composition comments Purity > 99%

#### **Section 4: First Aid Measures**

# 4.1. Description of first aid measures

Inhalation Move affected person to fresh air at once. Rinse nose and mouth with water.

Get medical attention if any discomfort continues.

Ingestion Rinse mouth thoroughly with water. Get medical attention if any discomfort

continues. Do not induce vomiting.

Skin contact Remove affected person from source of contamination. Remove contaminated

clothing. Wash skin thoroughly with soap and water. Get medical attention if

any discomfort continues.

Eye contact Remove any contact lenses and open eyelids wide apart. Continue to rinse for

at least 15 minutes. Get medical attention if any discomfort continues.

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

Inhalation Coughing.

Ingestion Stomach pain. Diarrhoea. Nausea, vomiting.

Eye contact Redness.

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

Notes for the doctor No specific recommendations. If in doubt, get medical attention promptly.



#### **Section 5: Firefighting measures**

5.1. Extinguishing media

Suitable extinguishing media The product is not flammable. Water.

Unsuitable extinguishing media Carbon dioxide (CO2). Halon.

5.2. Special hazards arising from the substance or mixture

Specific hazards Irritating ages or vapours. Sulphurous gases (SOx).

5.3. Advice for firefighters

Special protective equipment Wear positive-pressure self-contained breathing apparatus (SCBA) and

For firefighters appropriate protective clothing.

#### **Section 6: Accidental Release Measures**

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid inhalation of dust. Provide adequate ventilation.

6.2. Environmental precautions

Environmental precautions Do not discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

Avoid generation and spreading of dust. Collect and place in suitable waste

disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible.

Flush contaminated area with plenty of water.

6.4. Reference to other sections

Reference to other sections Collect and dispose of spillage as indicated in section 13.

#### **Section 7: Handling and Storage**

7.1. Precautions for safe handling

Usage precautions Avoid spilling. Avoid skin and eye contact. Avoid handling which leads to dust

formation. Provide adequate ventilation.



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

Usage precautions Store in tightly closed original container in a dry, cool and well-ventilated

place. Keep only in the original container.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are in section 1.2.

# Section 8: Exposure controls / personal protection

8.1. Control parameters

**Ingredient Comments** No exposure limits known for ingredient(s).

8.2. Exposure controls

Protective equipment







Appropriate Engineering controls Provide adequate ventilation. Avoid inhalation of dust. Observe any

occupational exposure limits for the product or ingredients.

Personal protection Wear appropriate clothing to prevent reasonably probable skin contact.

Wear tight-fitting, dust-resistant, chemical splash goggles if airborne dust is Eye/face protection

generated. Personal protective equipment for eye and face protection should

comply with European Standard EN166.

Hand protection Chemical resistant gloves require for prolonged or repeated contact. To protect

hands from chemicals, gloves should comply with European Standard EN374.

Hygiene measures Do not smoke in work area. Wash hands at the end of each work shift and

> before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated.

When using do not eat drink or smoke.

Respiratory protection No specific recommendations. If ventilation is inadequate, suitable respiratory

protection must be worn. Wear a suitable dust mask. Disposable filtering half

mask respirators should comply with European Standard EN149 or EN405.



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

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

Appearance Powder.
Colour White.
Odour Odourless.

pH (diluted solution): 8 @ 25°C

Melting point 1130°C

Initial boiling point and range Not applicable. The sample decomposes before boiling point.

Other flammability This product is not flammable.

Relative density 1.67 @ 20°C

Solubility(ies) 342 g/l water @ 20°C Soluble in water. Soluble in the following materials:

Alcohols.

Explosive properties No considered to be explosive.

Oxidising properties Does not meet the criteria for classification as oxidising.

9.2. Other information

Oher information Not available.

Molecular weight 120.4

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity There are no known reactivity hazards associated with this product.

10.2. Chemical Stability

Stability Stable under the prescribed storage conditions.

10.3. Possibility of hazardous reactions

Hazardous Polymerisation Will not polymerise.

10.4. Conditions to avoid

Conditions to avoid Avoid excessive heat for prolonged periods of time. Water, moisture.

10.5. Incompatible materials

Materials to avoid None known.



10.6. Hazardous decomposition products

Hazardous decomposition products When heated, vapours/gases hazardous to health may be formed. Sulphurous

gases (SOx)

#### Section 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity – oral

Notes (oral LD<sub>50</sub>) REACH dossier information. LD<sub>50</sub> > 2000 mg/kg, Oral, Rat Based on

available data the classification criteria are not met.

Acute toxicity – dermal

Notes (dermal LD<sub>50</sub>) REACH dossier information.  $LD_{50} > 2000$  mg/kg, Dermal, Rat Read-across

approach: Potassium sulphate. Based on available data the classification

criteria are not met.

Acute toxicity – inhalation

Notes (inhalation LC<sub>50</sub>) Data lacking.

Skin corrosion/Irritation

Animal data REACH dossier information. Not irritating. Read-across approach: Potassium

sulphate. Based on available data the classification criteria are not met.

Serious eye damage/irritation REACH dossier information. Not irritating. Read-across approach: Potassium

sulphate. Based on available data the classification criteria are not met.

Skin sensitisation REACH dossier information. Local Lymph Node Assay (LLNA) – Mouse: Not

sensitising. Based on available data the classification criteria are not met.

Germ cell mutagenicity REACH dossier information. Gene mutation: Negative. Based on available

data the classification criteria are not met.

Carcinogenicity Data lacking.

Reproductive toxicity

Reproductive toxicity – fertility REACH dossier information. No evidence of reproductive toxicity in animal

studies. Read-across approach: Potassium sulphate. Based on available data the

classification criteria are not met.

Specific target organ toxicity - repeated exposure.

STOT – repeated exposure REACH dossier information. Not classified as a specific target organ toxicant

after repeated exposure.

Aspiration hazard Not relevant.

Inhalation Dust in high concentrations may irritate the respiratory system.



Ingestion No specific health hazards known.

Skin contact Powder may irritate skin.

Eye contact Particles in the eyes may cause irritation and smarting.

**Section 12: Ecological information** 

Ecotoxicity Not regarded as dangerous for the environment.

12.1. Toxicity

Acute toxicity – fish REACH dossier information

LC<sub>50</sub>, 96 hour: 680 mg/l, Pimephales promelas (fat-head Minnow) Read-across approach: Potassium sulphate. Based on available data the

classification criteria are not met.

Acute toxicity – aquatic REACH dossier information.

Invertebrates EC<sub>50</sub>, 48 hours; 720 mg/l, Daphnia magna

Read-across approach: Potassium sulphate. Based on available data the

classification criteria are not met.

Acute toxicity – aquatic plants REACH dossier information.

EC<sub>50</sub>, 18 day: 2700 mg/l, Chlorella vulgaris

Read-across approach:

Based on available data the classification criteria are not met.

12.2. Persistence and degradability

Persistence and Degradability No Information required.

12.3. Bioaccumulative potential

Bioaccumulative potential Bioaccumulation of this product is not expected to occur.

12.4. Mobility in soil

Adsorption desorption coefficient Substance in inorganic.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment

The substance is not classified as PBT or vPvB by current EU criteria.

12.6. Other adverse effects

Other adverse effects None known.



#### **Section 13: Disposal considerations**

13.1. Waste treatment methods

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the

requirements of the local Waste Disposal 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)

Not Applicable.

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 MARPOL73/78 and the IBC Code

Not Applicable.

#### **Section 15: Regulatory information**

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

# **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). 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).

Guidance Workplace Exposure Limits EH40.

#### 15.2. Chemical Safety Assessment

No Chemical safety assessment has been carried out.



#### **Section 16: Other Information**

General information

The following information is provided to conform with article 13 of the EC Directive on Packaging and Packaging Waste 94/62/EC:

- Wherever possible we use the returnable packaging and pallets. Details of these are on our Sales Contracts.
- For any non-returnable packaging the cost of disposal is at your expense, but we do not have a list of reprocessors available.
- In most cases, but not all, we are able to supply products in returnable packaging but the additional cost of this will be for the customer's expense. Please ask for details with your specific requirements.
- Any products supplied in the returnable packaging is clearly marked to this
  effect.

Key literature references and Sources for data

European Chemicals Agency, <a href="http://echa.europa.eu/">http://echa.europa.eu/</a> - REACH disseminated dossier. International Chemical Safety Card, <a href="https://www.inchem.org">www.inchem.org</a>.

Revision comments N

NOTE: Lines within the margin indicate significate changes from the previous revision.

Revision date

4.6.2015

Revision

2



CAS No: 10034-99-8 EINECS No: 231-298-2

<u>Chemical Analysis:</u> <u>Levels</u>

Magnesium Sulphate (MgSO<sub>4</sub>) 49.0% typical

Water (H<sub>2</sub>O) 51.0% typical

Sodium (Na) 100 mg/kg typical

Potassium (K) 400 mg/kg typical

Calcium (Ca) 100 mg/kg typical

Chloride (CI) 200 mg/kg typical

H<sub>2</sub>O Insolubles 20 mg/kg typical

Iron (Fe) 1 mg/kg typical

Heavy metals (as Pb) <5 mg/kg typical

**Granulometry:-**

<1.0 mm 65.0% typical d<sub>50</sub> [mm] 0.80 typical

**Physical Properties:** 

Bulk density ca. 980 kg/m<sup>3</sup>

Angle of respose ca. 32

Molecular weight 246.47 g/mol Density 1.7 g/cm<sup>3</sup>



# **Vegetarian & Vegan Suitability Statement**

PRODUCT NAME: Epsom Salt

MADAR Corporation Limited can confirm that the above listed product has not been tested in animals and does not contain dairy or any other animal product, by product or derivative and is therefore suitable for vegetarian and vegan use.

28/06/19