

CERTIFICADO DE ANALISIS

Epsom Sal pura, tecnica

Magnesium Sulphate Heptahydrate ($MgSO_4 \cdot 7H_2O$)

Batch Number 4416902
Best Before Date December 2023

Parameter	Method of Analysis	Result	Specification
Magnesium Sulphate	calculated	49.4 %	48.0 .. 50.0 %
Sodium	ICP - AES	0.005 %	<= 0.012 %
Potassium	ICP - AES	0.049 %	0.010 .. 0.300 %
Calcium	ICP - AES	0.001 %	<= 0.010 %
Chloride	volumetry	0.009 %	0.001 .. 0.020 %
Loss on ignition (450°C)	gravimetry	50.5 %	50.0 .. 52.0 %
Water-insoluble matters	gravimetry	0.001 %	<= 0.010 %
Iron *)	DIN EN ISO 17294-2 ($MgSO_4$)	corresponds	<= 1 mg/kg
Heavy Metals as Lead *)	Ph. Eur. 2.4.8 Meth. A ($MgSO_4$)	corresponds	<= 5 mg/kg

*) not tested on each batch

Este certificado no exime al comprador de examinar el producto en el momento de la entrega y no garantiza la idoneidad del producto para cualquier propósito particular.

Production process of Epsom salt

Crude salt from mine, mainly containing

- Kieserite ($\text{MgSO}_4 \cdot \text{H}_2\text{O}$)
- Potash (KCl)
- Rock salt (NaCl)

Beneficiation process

Potash

Rock salt

**Kieserite
dissolving, crystallization**

Drying

Epsom salt ($\text{MgSO}_4 \cdot 7 \text{H}_2\text{O}$)



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GMO Statement

PRODUCT NAME: Epsom Salts

El Jabón Artesanal confirma que el producto mencionado anteriormente está libre de OGM

02/03/2020



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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	El Jabón Artesanal Victor Vicente Cordovilla C/ Rio Tajo nº 53 18110 Las Gabias, (Granada-España) Telf. (+34) 637594492 eljabonartesanal@hotmail.com
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Emergency Telephone	INSTITUTO NACIONAL DE TOXICOLOGIA MADRID 915620420
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Section 2: Hazards Identification

2.1. Classification of the substance or mixture

<u>Classification</u>	
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.



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Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Powder.
Colour	White.
Odour	Odourless.
pH	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

Other 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.
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10.2. Chemical Stability

Stability	Stable under the prescribed storage conditions.
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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.
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10.5. Incompatible materials

Materials to avoid	None known.
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10.6. Hazardous decomposition products

Hazardous decomposition products

When heated, vapours/gases hazardous to health may be formed. Sulphurous gases (SO_x)

Section 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity – oral

Notes (oral LD₅₀)

REACH dossier information. LD₅₀ > 2000 mg/kg, Oral, Rat Based on available data the classification criteria are not met.

Acute toxicity – dermal

Notes (dermal LD₅₀)

REACH dossier information. LD₅₀ > 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 LC₅₀)

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.



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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
LC₅₀, 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
Invertebrates REACH dossier information.
EC₅₀, 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.
EC₅₀, 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.



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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.



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Section 16: Other Information

General information	<p>The following information is provided to conform with article 13 of the EC Directive on Packaging and Packaging Waste 94/62/EC:</p> <ul style="list-style-type: none">• 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, http://echa.europa.eu/ - REACH disseminated dossier. International Chemical Safety Card, www.inchem.org .
Revision comments	NOTE: Lines within the margin indicate significant changes from the previous revision.
Revision date	4.6.2015
Revision	2



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

Chemical Analysis:

Levels

Magnesium Sulphate (MgSO ₄)	49.0% typical
Water (H ₂ O)	51.0% typical
Sodium (Na)	100 mg/kg typical
Potassium (K)	400 mg/kg typical
Calcium (Ca)	100 mg/kg typical
Chloride (Cl)	200 mg/kg typical
H ₂ 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 ₅₀ [mm]	0.80 typical

Physical Properties:

Bulk density	ca. 980 kg/m ³
Angle of repose	ca. 32
Molecular weight	246.47 g/mol
Density	1.7 g/cm ³



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Vegetarian & Vegan Suitability Statement

PRODUCT NAME: Epsom Salt

El Jabón Artesanal confirma que el producto mencionado anteriormente no ha sido probado en animales y no contiene productos lácteos ni ningún otro producto animal o derivado y por lo tanto, es adecuado para uso vegetariano y vegano.

28/06/19