# Material Safety Data Sheet according to Regulation (EC) No. 1907/2006

# **Epsom Salt**



Distributed by: Laguna Clay Company 14400 Lomitas Ave City of Industry, CA 91746 1-800-4Laguna info@lagunaclay.com www.lagunaclay.com



Version: 2.1 Revision Date: 12.01.2012

# 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name : Epsom Salt

chemically pure, FCC

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

Use of the Substance/Mixture : Food additive

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

Company : K+S KALI GmbH

Bertha-von-Suttner-Str. 7

34131 Kassel Germany

 Telephone
 : +49-(0)561-9301-0

 Telefax
 : +49-(0)561-9301-1753

 E-mail address
 : info@kali-gmbh.com

## 1.4 Emergency telephone number

Giftinformationszentrale Nord, Göttingen, Germany

Telephone:+49 (0)551 19240

#### 2. Hazards identification

#### 2.1 Classification of the substance or mixture

#### Classification(67/548/EEC,1999/45/EC)

Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.

#### 2.2 Label elements

## Labelling(REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

#### Labelling according to EC Directives (67/548/EEC)

Further information : The product does not need to be labelled in accordance with

EC directives or respective national laws.

#### 2.3 Other hazards

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT). This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

#### 3. Composition/information on ingredients

#### 3.1 Substances

Chemical Name	CAS-No.	Concentration [%]
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	EINECS-No. / ELINCS No.	
Magnesium Sulphate Heptahydrate (MgSO <sub>4</sub> ·7H <sub>2</sub> O)	10034-99-8 231-298-2	> 99

#### 4. First aid measures

## 4.1 Description of first aid measures

General advice : Get medical attention if symptoms occur.

Show this safety data sheet to the doctor in attendance.

If inhaled : If breathed in, move person into fresh air.

In case of skin contact : Rinse with water.

In case of eye contact : Immediately flush eye(s) with plenty of water.

If eye irritation persists, consult a specialist.

If swallowed : Clean mouth with water and drink afterwards plenty of water.

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

Symptoms : Ingestion may provoke the following symptoms:

Diarrhoea

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

Treatment : For specialist advice physicians should contact the Poisons

Information Service.

# 5. Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media : The product is not flammable.

Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Unsuitable extinguishing media : none

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

Specific hazards during

: Heating or fire can release toxic gas.

Sulphur oxides

#### 5.3 Advice for firefighters

Special protective equipment

for firefighters

firefighting

: Respiratory protection

Further information : Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

## 6. Accidental release measures

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

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Personal precautions : Avoid breathing dust.

6.2 Environmental precautions

Environmental precautions : Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Sweep up and shovel into suitable containers for disposal.

After cleaning, flush away traces with water.

6.4 Reference to other sections

For personal protection see section 8.

7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Avoid dust formation.

Avoid inhalation, ingestion and contact with skin and eyes.

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Advice on protection against

fire and explosion

: The product is not flammable.

No special protective measures against fire required.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas

and containers

: Keep in a dry place.

Advice on common storage : No special restrictions on storage with other products.

German storage class : 13 Non Combustible Solids

Other data : Stable under recommended storage conditions.

7.3 Specific end uses

: Not relevant

8. Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

**Engineering measures** 

Provide adequate ventilation.

Personal protective equipment

Respiratory protection : Effective dust mask.

Hand protection : not required under normal use

Eye protection : Safety glasses

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Skin and body protection : not required

Wear suitable protective clothing.

Hygiene measures : When using do not eat or drink.

Wash hands before breaks and at the end of workday.

Protective measures : Do not breathe dust.

**Environmental exposure controls** 

General advice : Do not let product enter drains.

## 9. Physical and chemical properties

## 9.1 Information on basic physical and chemical properties

Appearance : crystalline

Colour : white
Odour : very faint

pH : ca. 8, at 25 °C, Aqueous solution

Melting point/range : 770 °C

: Not applicable

Flash point : Not applicable

Flammability (solid, gas) : The product is not flammable.

Lower explosion limit : Not applicable
Upper explosion limit : Not applicable
Vapour pressure : Not applicable
Density : 1,7 g/cm³

Water solubility : MgSO<sub>4</sub>: 342 g/l, 20 °C

Partition coefficient: n-

octanol/water

: no data available

Autoignition temperature : Not applicable
Ignition temperature : Not applicable
Explosive properties : Not applicable
Oxidizing properties : Not applicable

9.2 Other information

Bulk density : ca. 980 kg/m³

# 10. Stability and reactivity

# 10.1 Reactivity

Stable

#### 10.2 Chemical stability



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No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Conditions to avoid : None known.

10.5 Incompatible materials

Materials to avoid : None known.

10.6 Hazardous decomposition products

Hazardous decomposition

products

No decomposition if stored and applied as directed.

Heating or fire can release toxic gas.

Sulphur oxides

## 11. Toxicological information

#### 11.1 Information on toxicological effects

**Product** 

Acute oral toxicity : LD50: > 2.000 mg/kg, rat, OECD 425, Information given is

based on data obtained from similar substances.

: This information is not available. Acute inhalation toxicity

Acute dermal toxicity : > 2.000 mg/kg, rat, OECD Test Guideline 402, Information

given is based on data obtained from similar substances.

Skin corrosion/irritation Result: No skin irritation, EU Method B.46, Information given

is based on data obtained from similar substances.

Serious eye damage/eye

irritation

: rabbit, Result: No eye irritation, OECD Test Guideline 405, Information given is based on data obtained from similar

substances.

Respiratory or skin

sensitization

: mouse, Result: Does not cause skin sensitization., OECD

Guideline 429, anhydrous substance

Germ cell mutagenicity

Genotoxicity in vitro : Result: negative, OECD 476, anhydrous substance

Genotoxicity in vivo : no data available

: This information is not available. Carcinogenicity

According to experience not expected

: rat, NOAEL: >= 1.500 mg/kg, OECD Guideline 422, Reproductive toxicity

Information given is based on data obtained from similar

substances.

Assessment: Animal testing did not show any effects on

fertility.

rat, NOAEL: >= 1.500 mg/kg, OECD Guideline 422, Teratogenicity

Information given is based on data obtained from similar

substances.



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Assessment: Did not show mutagenic or teratogenic effects in

animal experiments.

STOT - repeated exposure : rat, NOAEL: >= 256 mg/kg, OECD Test Guideline 453,

Information given is based on data obtained from similar

substances.

Further information : Health injuries are not known or expected under normal use.

#### 12. Ecological information

#### 12.1 Toxicity

## **Product:**

Toxicity to fish : LC50: 680 mg/l, 96 h, Pimephales promelas (fathead

minnow), Information given is based on data obtained from

similar substances.

Toxicity to daphnia and other

aquatic invertebrates.

: LC50: 720 mg/l, 48 h, Information given is based on data

obtained from similar substances.

Toxicity to algae : EC50: 2.700 mg/l, 18 d, Chlorella vulgaris (Fresh water

algae), Information given is based on data obtained from

similar substances.

Toxicity to bacteria : EC50: 84 mg/l, 0,5 h, Photobacterium phosphoreum

### 12.2 Persistence and degradability

#### **Product:**

Biodegradability

Not applicable

12.3 Bioaccumulative potential

### **Product:**

Bioaccumulation

Not applicable

12.4 Mobility in soil

#### **Product:**

Physico-chemical

: Not applicable

removability

#### 12.5 Results of PBT and vPvB assessment

#### **Product:**

Assessment : This substance is not considered to be persistent,

bioaccumulating nor toxic (PBT).

This substance is not considered to be very persistent nor

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very bioaccumulating (vPvB).

#### 12.6 Other adverse effects



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**Product:** 

Adsorbed organic bound

halogens (AOX)

: Not applicable

#### 13. Disposal considerations

#### 13.1 Waste treatment methods

Product : Check if agriculture use is possible.

Contaminated packaging : Contaminated packaging should be emptied as far as possible;

then it can be passed on for recycling after being thoroughly

cleaned.

# 14. Transport information

#### 14.1 Land transport

ADR

Remarks : Not a dangerous substance as defined in the above regulations.

Tunnel restriction code : Not relevant

#### 14.2 Sea transport

<u>IMDG</u>

Remarks : Not classified as dangerous in the meaning of transport

regulations.

14.3 Air transport

IATA-DGR

Remarks : Not classified as dangerous in the meaning of transport

regulations.

#### 14.4 Special precautions for user

Not relevant

# 14.5 <u>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</u>

# 15. Regulatory information

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

Water contaminating class

(Germany)

: WGK 1 slightly water endangering

**Notification status** 

REACH : This substance is exempt from registration according to

Regulation (EC) No. 1907/2006 (REACH).

#### 15.2 Chemical Safety Assessment

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A Chemical Safety Assessment is not required for this substance.

#### 16. Other information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.



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