

# SAFFTY DATA SHFFT

according to the Global Harmonized System (and with all of the information required by the HPR)

Revision Date 05/27/2019

Version 1.8

#### **SECTION 1.Identification**

#### **Product identifier**

Product number 106639

Product name Sodium sulfate anhydrous granulated for organic trace

CAS-No. 7757-82-6

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

Identified uses Reagent for analysis

# Details of the supplier of the safety data sheet

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Germany.

**Emergency telephone** 800-424-9300 CHEMTREC (USA)

+1-703-527-3887 CHEMTREC (International)

24 Hours/day; 7 Days/week

### **SECTION 2. Hazards identification**

#### **GHS-Labeling**

Not a dangerous substance according to GHS.

### Other hazards

None known.

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

Formula Na<sub>2</sub>SO<sub>4</sub> Na<sub>2</sub>O<sub>4</sub>S (Hill)

Molar mass 142.04 g/mol

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Remarks WHMIS hazardous composition: No ingredients are

hazardous according to the HPR criteria.

### **SECTION 4. First aid measures**

# **Description of first-aid measures**

Inhalation

After inhalation: fresh air.

Skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin

with water/ shower.

Eye contact

After eye contact: rinse out with plenty of water. Remove contact lenses.

Ingestion

After swallowing: make victim drink water (two glasses at most). Consult doctor if

feeling unwell.

Never give anything by mouth to an unconscious person.

# Most important symptoms and effects, both acute and delayed

Nausea, Vomiting, cardiovascular disorders

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

No information available.

# **SECTION 5. Fire-fighting measures**

### **Extinguishing media**

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

### Special hazards arising from the substance or mixture

Not combustible.

Ambient fire may liberate hazardous vapors.

Fire may cause evolution of:

Sulfur oxides

# **Advice for firefighters**

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Special protective equipment for fire-fighters

In the event of fire, wear self-contained breathing apparatus.

Further information

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

#### **SECTION 6. Accidental release measures**

# Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders:

Protective equipment see section 8.

### **Environmental precautions**

Do not let product enter drains.

### Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

### SECTION 7. Handling and storage

### Precautions for safe handling

Observe label precautions.

# Conditions for safe storage, including any incompatibilities

Tightly closed. Dry.

Store at +5°C to +30°C (+41°F to +86°F).

### **SECTION 8. Exposure controls/personal protection**

# **Exposure limit(s)**

Contains no substances with occupational exposure limit values.

# **Engineering measures**

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

# **Individual protection measures**

Protective clothing should be selected specifically for the workplace, depending on concentration and quantity of the hazardous substances handled. The chemical resistance of the protective equipment should be inquired at the respective supplier.

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Hygiene measures

Change contaminated clothing. Wash hands after working with substance.

Eye/face protection Safety glasses

Hand protection

full contact:

Glove material: Nitrile rubber Glove thickness: 0.11 mm Break through time: 480 min

splash contact:

Glove material: Nitrile rubber Glove thickness: 0.11 mm Break through time: 480 min

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374, for example KCL 741 Dermatril® L (full contact), KCL 741 Dermatril® L (splash contact).

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types.

This recommendation applies only to the product stated in the safety data sheet and supplied by us as well as to the purpose specified by us. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Respiratory protection

required when dusts are generated.

Recommended Filter type: Filter P 1 (acc. to DIN 3181) for solid particles of inert substances

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are performed according to the instructions of the producer. These measures have to be properly documented.

# **SECTION 9. Physical and chemical properties**

Physical state solid

Color white

Odor odorless

Odor Threshold Not applicable



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Product name	Sodium sulfate anhydro	ous granulated for org	anic trace analysis EMSURE®

pH 5.2 - 8.0

at 50 g/l

68 °F (20 °C)

Melting point 1630 °F (888 °C)

Boiling point/boiling range Not applicable, (decomposition)

Flash point Not applicable

Evaporation rate No information available.

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

Lower explosion limit Not applicable

Upper explosion limit Not applicable

Vapor pressure Not applicable

Relative vapor density No information available.

Density 2.70 g/cm<sup>3</sup>

at 68 °F (20 °C)

Relative density No information available.

Water solubility 200 g/l

at 68 °F (20 °C)

Partition coefficient: n-

octanol/water Not applicable

Autoignition temperature > 752 °F(> 400 °C)

Method: NF T 20-036

does not ignite

Decomposition temperature > 1634 °F (> 890 °C)

Viscosity, dynamic No information available.

Explosive properties Not classified as explosive.



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Oxidizing properties none

Ignition temperature Not applicable

Bulk density ca.1,400 - 1,600 kg/m3

# **SECTION 10. Stability and reactivity**

# Reactivity

See below

# **Chemical stability**

The product is chemically stable under standard ambient conditions (room temperature) .

# Possibility of hazardous reactions

Risk of explosion with: smelt, with, Aluminum

#### **Conditions to avoid**

no information available

# **Incompatible materials**

no information available

#### Hazardous decomposition products

in the event of fire: See section 5.

# **SECTION 11. Toxicological information**

# Information on toxicological effects

Likely route of exposure Eye contact, Skin contact, Ingestion

Acute oral toxicity

LD50 Rat: > 2,000 mg/kg OECD Test Guideline 423

Symptoms: Possible damages:, Nausea, Vomiting



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Acute inhalation toxicity

LC50 Rat: > 2.4 mg/l; 4 h; dust/mist

**OECD Test Guideline 436** 

(highest concentration to be prepared)

Skin irritation

Rabbit

Result: No skin irritation OECD Test Guideline 404

Eye irritation

Rabbit

Result: slight irritation OECD Test Guideline 405

Sensitization

Maximization Test Guinea pig

Result: negative

Method: OECD Test Guideline 406

Genotoxicity in vitro

Ames test

Salmonella typhimurium

Result: negative

(ECHA)

Specific target organ systemic toxicity - single exposure

The substance or mixture is not classified as specific target organ toxicant, single exposure.

Specific target organ systemic toxicity - repeated exposure

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration hazard

Regarding the available data the classification criteria are not fulfilled.

Carcinogenicity

IARC No ingredient of this product present at levels greater

than or equal to 0.1% is identified as probable, possible

or confirmed human carcinogen by IARC.

OSHA No component of this product present at levels greater

than or equal to 0.1% is on OSHA's list of regulated

carcinogens.

NTP No ingredient of this product present at levels greater

than or equal to 0.1% is identified as a known or

anticipated carcinogen by NTP.

ACGIH No ingredient of this product present at levels greater

than or equal to 0.1% is identified as a carcinogen or

potential carcinogen by ACGIH.

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#### **Further information**

Systemic effects:

After uptake of large quantities:

cardiovascular disorders

Symptoms in:

Gastrointestinal tract

However, when the product is handled appropriately, hazardous effects are

unlikely to occur.

Handle in accordance with good industrial hygiene and safety practice.

# **SECTION 12. Ecological information**

# **Ecotoxicity**

Toxicity to fish

LC50 Pimephales promelas (fathead minnow): 7,960 mg/l; 96 h

Toxicity to daphnia and other aquatic invertebrates EC50 Daphnia magna (Water flea): 1,766 mg/l; 48 h

**US-EPA** 

Toxicity to bacteria

EC10 Pseudomonas putida: > 1,000 mg/l; 16 h (IUCLID)

### Persistence and degradability

Biodegradability

The methods for determining the biological degradability are not applicable to inorganic substances.

### **Bioaccumulative potential**

Partition coefficient: n-octanol/water

Not applicable

# Mobility in soil

No information available.

Additional ecological information

Discharge into the environment must be avoided.

# **SECTION 13. Disposal considerations**

The information presented only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Disposal should be in accordance with applicable regional, national and local laws and regulations.

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### **SECTION 14. Transport information**

# Land transport (DOT)

Not classified as dangerous in the meaning of transport regulations.

### Air transport (IATA)

Not classified as dangerous in the meaning of transport regulations.

# Sea transport (IMDG)

Not classified as dangerous in the meaning of transport regulations.

# **SECTION 15. Regulatory information**

#### **United States of America**

#### Canada

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

#### **Notification status**

TSCA: All components of the product are listed in the TSCA-

inventory.

DSL: All components of this product are on the Canadian DSL

#### **SECTION 16. Other information**

# Training advice

Provide adequate information, instruction and training for operators.

# Key or legend to abbreviations and acronyms used in the safety data sheet

Used abbreviations and acronyms can be looked up at www.wikipedia.org.

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