

# SAFETY DATA SHEET according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Revision Date 05/27/2019

Version 1.6

SECTION 1.Identification Product identifier	
Product number	106649
Product name	Sodium sulfate anhydrous for analysis EMSURE® ACS,ISO,Reag. Ph Eur
CAS-No.	7757-82-6
Relevant identified uses of	of the substance or mixture and uses advised against
Identified uses	Reagent for analysis
Details of the supplier of	the safety data sheet
Company	EMD Millipore Corporation   400 Summit Drive   Burlington   Massachusetts 01803   United States of America   General Inquiries: +1 800-645-5476   Monday to Friday, 9:00 AM to 4:00 PM Eastern Time (GMT-5) MilliporeSigma is a business of Merck KGaA, Darmstadt, 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	Na2SO4	Na2O4S (Hill)
Molar mass	142.04 g/mol	

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		-
Remarks	No hazardous ingredients according to the OSHA Hazard Communication Standard 29 CFR 1910.1200.	

#### **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  $+5^{\circ}C$  to  $+30^{\circ}C$  ( $+41^{\circ}F$  to  $+86^{\circ}F$ ).

#### **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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<i>Hygiene measur</i> Change contami		ands after working with substance.	
<i>Eye/face protect</i> Safety glasses	tion		
Hand protection			
full contact:			
	Glove material: Glove thickness: Break through time:	Nitrile rubber 0.11 mm 480 min	
splash contact:			
	Glove material:	Nitrile rubber	
	Glove thickness: Break through time:	0.11 mm 480 min	
89/686/EEC and contact), KCL 74 The breakthroug to EN374 with s This recommend supplied by us a	I the related standard E 41 Dermatril® L (splash gh times stated above w amples of the recomme dation applies only to th is well as to the purpose	ere determined by KCL in laboratory tests acc.	

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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roduct number	106649 Version	ı 1.
roduct name	Sodium sulfate anhydrous for analysis EMSURE® ACS,ISO,Reag. Ph Eur	
рН	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/cm3 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 temperatur	re > 1634 °F (> 890 °C)	
Viscosity, dynamic	No information available.	
Explosive properties	Not classified as explosive.	

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Product number	106649	Version 1.6
Product name	Sodium sulfate anhydrous for analysis EMSURE® ACS, ISO, Reag. F	Ph Eur
Oxidizing properties Ignition temperature Bulk density	none Not applicable 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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Product number	106649	Version 1.0
Product name	Sodium sulfate anhydrous for analysis EMSURE® ACS,ISO,Reag	g. Ph Eur
OECD Test Guidelir	g/l; 4 h ; dust/mist	
<i>Skin irritation</i> Rabbit Result: No skin irrit OECD Test Guidelir		
<i>Eye irritation</i> Rabbit Result: slight irritat OECD Test Guidelir		
<i>Sensitization</i> Maximization Test Result: negative Method: OECD Test		
<i>Genotoxicity in vitr</i> Ames test Salmonella typhimu Result: negative (ECHA)		
	an systemic toxicity - single exposure hixture is not classified as specific target organ toxicant, single	
	an systemic toxicity - repeated exposure hixture is not classified as specific target organ toxicant, repeated	
Aspiration hazard Regarding the ava Carcinogenicity	ilable data the classification criteria are not fulfilled.	
IARC	No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible	
OSHA	or confirmed human carcinogen by IARC. No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated	
NTP	carcinogens. No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or	

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**

#### SARA 313

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### **SARA 302**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### **Clean Water Act**

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

#### DEA List I

Not listed

**DEA List II** Not listed

**US State Regulations** 

**Massachusetts Right To Know** 

Components Sodium sulphate **Pennsylvania Right To Know** Components Sodium sulphate

# **California Prop 65 Components**

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

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Notification status		
TSCA:	All components of the product are listed in the TSCA-	
DSL:	inventory. 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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The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to appropriate safety precautions. It does not represent a warranty of any product properties and we assume no liability for any loss or injury which may result from the use of this information. Users should conduct their own investigations to determine the suitability of the information.

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