

	Revision Date 07/29/2014	Version 1.4
SECTION 1. Identification Product identifier		
Product number	106639	
Product name	Sodium sulfate anhydrous granulated for organic trace analysis EMSURE®	
CAS-No.	7757-82-6	
Relevant identified uses of t	he substance or mixture and uses advised against	
Identified uses	Reagent for analysis	
Details of the supplier of the	e safety data sheet	
Company	EMD Millipore Corporation 290 Concord Road, Billerica, MA 01821 United States of America General Inquiries: +1-978-715-4321 Monday to Friday, 9:00 AM to 4:00 PM Eastern Time (GMT-5)	,
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 hazardous substance or mixture according to Regulation (EC) No 1272/2008.

OSHA Hazards

While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.

This information is based on 29 CFR 1910.1200 criteria prior to adoption of the GHS and may deviate from the GHS information.

Other hazards

None known.

SECTION 3	. Composition/information on ingredients
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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 mea	asures	
Description of first-aid m Inhalation After inhalation: fresh		
<i>Skin contact</i> After skin contact: wa	ash off with plenty of water. Remove contaminated clothing.	
<i>Eye contact</i> After eye contact: rins	se out with plenty of water.	
<i>Ingestion</i> After swallowing: mal	ke victim drink water (two glasses at most). Consult doctor if feeling unwell.	
Never give anything t	by mouth to an unconscious person.	
	ns and effects, both acute and delayed ardiovascular disorders	
Indication of any immed No information availa	iate medical attention and special treatment needed ble.	
SECTION 5. Fire-fighting	measures	
Extinguishing media Suitable extinguishing Use extinguishing me environment.	g media easures that are appropriate to local circumstances and the surrounding	
<i>Unsuitable extinguish</i> For this substance/m	<i>hing media</i> ixture no limitations of extinguishing agents are given.	
Not combustible.	from the substance or mixture rate hazardous vapors. ition of:	
Advice for firefighters		

Advice for firefighters

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

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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.

Storage temperature: no restrictions.

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.

Hygiene measures

Change contaminated clothing. Wash hands after working with substance.

Eye/face protection Safety glasses

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Respiratory protection

required when dusts are generated.

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

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SECTION 9. Physical and chem Physical state	solid
Color	white
Odor	odorless
Odor Threshold	not applicable
рН	5.2 - 8.0 at 50 g/l 68 °F (20 °C)
Melting point	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	No information available.
Upper explosion limit	No information available.
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 temperature	> 1634 °F (> 890 °C)
Viscosity, dynamic	No information available.

Product number Product name	106639 Version 1.4 Sodium sulfate anhydrous granulated for organic trace analysis EMSURE®
Explosive properties	Not classified as explosive.
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 (ECHA)

Symptoms: Possible damages:, Nausea, Vomiting *Skin irritation* rabbit Result: No irritation OECD Test Guideline 404

Eye irritation rabbit Result: slight irritation OECD Test Guideline 405

Product number	106639 Version 1
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<i>Genotoxicity in vitro</i> Ames test Result: negative (IUCLID)	
	s <i>ystemic toxicity - single exposure</i> ture is not classified as specific target organ toxicant, single exposure.
	s <i>ystemic toxicity - repeated exposure</i> ture is not classified as specific target organ toxicant, repeated exposure.
<i>Aspiration hazard</i> Regarding the availat	ble 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 ingredient of this product present at levels greater than or
	equal to 0.1% is identified as a carcinogen or potential
	carcinogen by OSHA.
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.
Further information Systemic effects: After uptake of large q cardiovascular disorde 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 Gambusia affinis (Mosquito fish): 120 mg/l; 96 h (IUCLID) *Toxicity to daphnia and other aquatic invertebrates* EC50 Daphnia magna (Water flea): 2,564 mg/l; 48 h (IUCLID) *Toxicity to bacteria*

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

Persistence and degradability

No information available.

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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.

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

OSHA Hazards

No OSHA Hazards

This information is based on 29 CFR 1910.1200 criteria prior to adoption of the GHS, and may deviate from the GHS information on the label and in section 2.

SARA 311/312 Hazards

No SARA Hazards

SARA 313

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

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

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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

Ingredients Sodium sulphate

Pennsylvania Right To Know

Ingredients Sodium sulphate

New Jersey Right To Know

Ingredients 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.

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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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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