

# **Material Safety Data Sheet**

Creation Date 16-Jun-2009

Revision Date 23-Sep-2009

**Revision Number 1** 

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Sodium sulfate anhydrous

Cat No. BP354-500; S415-1; S415-10S; S415-200LB; S415-212; S415-500; S415-

500LC; S420-3; S420-10; S421-1; S421-3; S421-10; S421-10LC; S421-50; S421-50LC; S421-300LB; S421-500; S429-12; S429-212; S429-250LB;

S429-500; S434-12

Synonyms Disodium sulfate; Sulfuric acid, disodium salt (Granular/Powder/10-60 Mesh/Certified ACS/Low

Nitrogen/USP/FCC/EP/BP)

Recommended Use Laboratory chemicals

CompanyEmergency Telephone NumberFisher ScientificCHEMTREC®, Inside the USA: 800-

One Reagent Lane 424-9300

Fair Lawn, NJ 07410 CHEMTREC®, Outside the USA: 703-

Tel: (201) 796-7100 527-3887

### 2. HAZARDS IDENTIFICATION

# **CAUTION!**

# **Emergency Overview**

May cause skin, eye, and respiratory tract irritation. The toxicological properties have not been fully investigated. Hygroscopic.

Appearance White Physical State Solid Odor odorless

Target Organs None known.

**Potential Health Effects** 

Acute Effects

**Principle Routes of Exposure** 

**Eyes** May cause irritation. **Skin** May cause irritation.

**Inhalation** May cause irritation of respiratory tract.

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea

Chronic Effects None known.

See Section 11 for additional Toxicological information.

Aggravated Medical Conditions No information available.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Haz/Non-haz

Component	CAS-No	Weight %		
Sodium sulfate (solution)	7757-82-6	>95		

# 4. FIRST AID MEASURES

**Eye Contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain

medical attention.

**Skin Contact** Wash off immediately with plenty of water for at least 15 minutes. Get medical attention

immediately if symptoms occur.

**Inhalation** Move to fresh air. If breathing is difficult, give oxygen. Get medical attention immediately if

symptoms occur.

**Ingestion** Do not induce vomiting. Obtain medical attention.

Notes to Physician Treat symptomatically.

# 5. FIRE-FIGHTING MEASURES

Flash Point No information available.

Method No information available.

**Autoignition Temperature** No information available.

**Explosion Limits** 

UpperNo data availableLowerNo data available

Suitable Extinguishing Media Use water spray, alcohol-resistant foam, dry chemical or carbon

dioxide.

Unsuitable Extinguishing Media No information available.

**Hazardous Combustion Products**No information available.

Sensitivity to mechanical impactNo information available.Sensitivity to static dischargeNo information available.

# **Specific Hazards Arising from the Chemical**

Keep product and empty container away from heat and sources of ignition

### **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA Health 1 Flammability 1 Instability 0 Physical hazards N/A

### 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions** Ensure adequate ventilation. Use personal protective equipment. Avoid dust formation.

**Environmental Precautions** Should not be released into the environment.

Methods for Containment and Clean Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust

formation.

# 7. HANDLING AND STORAGE

Wear personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, Handling

eyes and clothing. Avoid ingestion and inhalation. Avoid dust formation.

Keep containers tightly closed in a dry, cool and well-ventilated place. **Storage** 

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering Measures** Ensure that eyewash stations and safety showers are close to the workstation location. Ensure

adequate ventilation, especially in confined areas.

This product does not contain any hazardous materials with occupational exposure limits **Exposure Guidelines** 

established by the region specific regulatory bodies.

NIOSH IDLH: Immediately Dangerous to Life or Health

**Personal Protective Equipment** 

Eye/face Protection

Skin and body protection **Respiratory Protection** 

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's

eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Wear appropriate protective gloves and clothing to prevent skin exposure.

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits

are exceeded or if irritation or other symptoms are experienced.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical State** Solid **Appearance** White

Odor odorless No information available. **Odor Threshold** Ha

4-9 110 g/l ag, sol. **Vapor Pressure** No information available. Vapor Density No information available. **Viscosity** No information available. **Boiling Point/Range** No information available.

Melting Point/Range 884 - 888°C / 1623.2 - 1630.4°F

No information available. Decomposition temperature °C **Flash Point** No information available. **Evaporation Rate** No information available. **Specific Gravity** No information available.

Solubility Soluble in water log Pow No data available **Molecular Weight** 142.04

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Molecular Formula Na2 O4 S

# 10. STABILITY AND REACTIVITY

Stability Hygroscopic.

Conditions to Avoid Incompatible products. Excess heat. Avoid dust formation.

Exposure to moist air or water.

Incompatible Materials Strong oxidizing agents

Hazardous Decomposition Products Sulfur oxides, Sodium oxides

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions . None under normal processing..

# 11. TOXICOLOGICAL INFORMATION

### **Acute Toxicity**

**Component Information** 

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	
Sodium sulfate (solution)	10000 mg/kg (Rat)	Not listed	Not listed	

**Irritation** No information available.

**Toxicologically Synergistic** 

**Products** 

No information available.

**Chronic Toxicity** 

Carcinogenicity There are no known carcinogenic chemicals in this product

**Sensitization** No information available.

Mutagenic Effects Not mutagenic in AMES Test

Reproductive Effects

No information available.

Developmental Effects

No information available.

Teratogenicity

No information available.

Other Adverse Effects The toxicological properties have not been fully investigated.. See actual entry in RTECS for

complete information.

Endocrine Disruptor Information No information available

# 12. ECOLOGICAL INFORMATION

# **Ecotoxicity**

Do not empty into drains.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Sodium sulfate (solution)	Not listed	Pimephales promelas: LC50:	Not listed	EC50: 4547 mg/L/96h
		13.5 - 14.5 g/L/96h		EC50: 2564 mg/L/48h
		_		EC50: 4547 mg/L/96h

Persistence and Degradability No information available

Bioaccumulation/ Accumulation No information available

Mobility .

Component	log Pow		
Sodium sulfate (solution)	-3		

# 13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

# 14. TRANSPORT INFORMATION

**DOT** Not regulated

TDG Not regulated

IATA Not regulated

IMDG/IMO Not regulated

# 15. REGULATORY INFORMATION

#### International Inventories

Component	TSCA	DSL	NDSL	<b>EINECS</b>	<b>ELINCS</b>	NLP	PICCS	ENCS	AICS	CHINA	KECL
Sodium sulfate (solution)	Х	X	-	231-820-	-		Х	Х	X	X	KE-
				9							31609
											X

#### Legend:

- X Listed
- E Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
- F Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
- N Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
- P Indicates a commenced PMN substance
- R Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
- S Indicates a substance that is identified in a proposed or final Significant New Use Rule
- T Indicates a substance that is the subject of a Section 4 test rule under TSCA.
- XU Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
- Y1 Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
- Y2 Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

### **U.S. Federal Regulations**

TSCA 12(b) Not applicable

#### **SARA 313**

Not applicable

# SARA 311/312 Hazardous Categorization

Acute Health HazardNoChronic Health HazardNoFire HazardNoSudden Release of Pressure HazardNoReactive HazardNo

# **Clean Water Act**

Not applicable

### Clean Air Act

Not applicable

#### **OSHA**

Not applicable

#### **CERCLA**

Not Applicable

# California Proposition 65

This product does not contain any Proposition 65 chemicals.

#### State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Sodium sulfate (solution)	X	=	X	-	=

# **U.S. Department of Transportation**

Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

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# **U.S. Department of Homeland Security**

This product does not contain any DHS chemicals.

# Other International Regulations

Mexico - Grade No information available

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

#### **WHMIS Hazard Class**

Non-controlled

# **16. OTHER INFORMATION**

Prepared By Regulatory Affairs

Thermo Fisher Scientific Tel: (412) 490-8929

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Revision Summary "\*\*\*", and red text indicates revision

### **Disclaimer**

The information provided on 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

**End of MSDS**