

# Part of Thermo Fisher Scientific

# SAFETY DATA SHEET

Creation Date 16-Jun-2009	Revision Date 28-Oct-2014	<b>Revision Number</b> 1
	1. Identification	
Product Name	Sodium Sulfate anhydrous	
Cat No. :	S421-1; S421-3; S421-10; S421-10LC; S421-50 S421-300LB; S421-500;	); S421-50LC;
Synonyms	Dibasic sodium sulfate; Disodium monosulfate; Bisodium su	ulfate
Recommended Use	Laboratory chemicals.	
Uses advised against No Information available Details of the supplier of the safety data sheet		
<b>Company</b> Fisher Scientific	Emergency Telephone Number CHEMTREC®, Inside the USA: 800-424-9300	

One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100

CHEMTREC®, Outside the USA: 001-703-527-3887

2. Hazard(s) identification

### **Classification**

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Based on available data, the classification criteria are not met

### Label Elements

None required

### Hazards not otherwise classified (HNOC)

None identified

Other hazards

hygroscopic. May cause eye, skin, and respiratory tract irritation.

3. Composition / information on ingredients

Component	CAS-No	Weight %
Sodium sulfate	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. Get medical attention immediately if symptoms occur.	
Ingestion	Do not induce vomiting. Obtain medical attention.	
Most important symptoms/effects Notes to Physician	oms/effects None reasonably foreseeable. Treat symptomatically	
	5. Fire-fighting measures	
Suitable Extinguishing Media	5. Fire-fighting measures Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.	
Suitable Extinguishing Media Unsuitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the	
	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.	

Explosion Limits	
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available

### **Specific Hazards Arising from the Chemical**

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

#### **Hazardous Combustion Products**

Sulfur oxides Sodium oxides

### **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. Thermal decomposition can lead to release of irritating gases and vapors.

<u>NFPA</u> Health 1	Flammability 1	Instability 1	Physical hazards N/A
	6. Accidental re	elease measures	
Personal PrecautionsEnsure adequate ventilation. Use personal protective equipment. Avoid dust formation.Environmental PrecautionsShould not be released into the environment. See Section 12 for additional ecological information.			
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	
Handling		equipment. Ensure adequate ve ngestion and inhalation. Avoid d	ntilation. Avoid contact with skin, ust formation. Protect from
Storage	Keep containers tightly clo	osed in a dry, cool and well-venti	lated place.

# 8. Exposure controls / personal protection

Exposure Guidelines

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

established by the region specific regulatory bodies.

Engineering Measures	Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations
	and safety showers are close to the workstation location.

### Personal Protective Equipment

Eye/face 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.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	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.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

### 9. Physical and chemical properties

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Physical State	Solid
Appearance	White
Odor	Characteristic
Odor Threshold	No information available
рH	5 - 8 50 g/l aq.sol (20°C)
Melting Point/Range	884 - 888 °C / 1623.2 - 1630.4 °F
Boiling Point/Range	No information available
Flash Point	No information available
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Relative Density	No information available
Solubility	Soluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	Not applicable
Decomposition Temperature	> 890°C
Viscosity	Not applicable
Molecular Formula	Na2 O4 S
Molecular Weight	142.04
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# 10. Stability and reactivity

Reactive Hazard	None known, based on information available	
Stability	Hygroscopic. Stable under normal conditions.	
Conditions to Avoid	Incompatible products. Excess heat. Avoid dust formation.	
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

Acute loxicity						
Product Information	า	No acute toxicity ir	nformation is availa	able for this produc	t	
Component Informa	ation			•		
Componer	nt	LD50 Oral		LD50 Dermal	LC50 I	nhalation
Sodium sulfa	ate	10000 mg/kg (Rat	)	Not listed	Not listed	
Toxicologically Syn	ergistic	No information ava	ailable			
Products						
Delayed and immed	liate effects as w	ell as chronic effe	cts from short an	d long-term expo	sure	
Irritation	ritation May cause eye, skin, and respiratory tract irritation					
Sensitization		No information ava	ailable			
Carcinogenicity		The table below indicates whether each agency has listed any ingredient as a carcinog		as a carcinogen.		
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Sodium sulfate	7757-82-6	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		Not mutagenic in AMES Test				
Reproductive Effects		No information available.				
Developmental Effe	cts	No information available.				
Teratogenicity	Teratogenicity		No information available.			
STOT - single exposure STOT - repeated exposure		None known None known				
Aspiration hazard		No information available				
Symptoms / effects, both acute and No information available						
	lelayed Endocrine Disruptor Information No information available					
Other Adverse Effe	cts	The toxicological properties have not been fully investigated. See actual entry in RTECS complete information.		ntry in RTECS for		

## 12. Ecological information

### Ecotoxicity

Do not empty into drains. Do not flush into surface water or sanitary sewer system.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Sodium sulfate	-	Pimephales promelas: LC50:	-	EC50: 4547 mg/L/96h
		13.5 - 14.5 g/L/96h		EC50: 2564 mg/L/48h
		_		EC50: 4547 mg/L/96h
Persistence and Degradat	bility Soluble in wa	ater Persistence is unlikely	based on information avai	lable.

Bioaccumulation/ Accumulation

No information available.

### Mobility

Will likely be mobile in the environment due to its water solubility.

Component	log Pow
Sodium sulfate	-3

13 Disposal	consideration	S		
15. Disposai	consideration	3		

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			
DOT TDG IATA	Not regulated			
ΙΑΤΑ	Not regulated			
IMDG/IMO	Not regulated			
15. Regulatory information				

### International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Sodium sulfate	Х	Х	-	231-820-9	-		Х	Х	Х	Х	Х

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
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SARA 311/312 Hazardous Categorization Acute Health Hazard Chronic Health Hazard Fire Hazard Sudden Release of Pressure Hazard Reactive Hazard		No No No No
Clean Water Act	Not applicable	
Clean Air Act	Not applicable	

**OSHA** Occupational Safety and Health Administration 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	Х	-	Х	-	-

### U.S. Department of Transportation

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

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 Email: EMSDS.RA@thermofisher.com
Creation Date Revision Date Print Date Revision Summary	16-Jun-2009 28-Oct-2014 28-Oct-2014 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

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 SDS**