

# SAFETY DATA SHEET

Creation Date 03-November-2010

Revision Date 18-January-2018

**Revision Number** 3

## 1. Identification Sodium Bisulfate Monohydrate (Certified)

Product Name

Cat No. :

Synonyms

CAS-No

S240-3, S240-500

10034-88-5 Sodium hydrogen sulfate

Recommended Use Uses advised against Laboratory chemicals. Not for food, drug, pesticide or biocidal product use

#### Details of the supplier of the safety data sheet

Company Importer/Distributor Fisher Scientific 112 Colonnade Road, Ottawa, ON K2E 7L6, Canada Tel: 1-800-234-7437

Acros Organics One Reagent Lane Fair Lawn, NJ 07410 Manufacturer Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100

#### **Emergency Telephone Number**

For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No.**US**:001-800-424-9300 / **Europe**:001-703-527-3887

## 2. Hazard(s) identification

Classification

WHMIS 2015 Classification

Classified as hazardous under the Hazardous Products Regulations (SOR/2015-17)

Serious Eye Damage/Eye Irritation

Category 1

Label Elements

Signal Word Danger

Hazard Statements Causes serious eye damage



#### **Precautionary Statements**

#### Prevention

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Wear protective gloves/protective clothing/eye protection/face protection

#### Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER/doctor

#### Storage

Store in a well-ventilated place. Keep container tightly closed

Store locked up

### Disposal

Dispose of contents/container to an approved waste disposal plant

## 3. Composition/Information on Ingredients

Component	CAS-No	Weight %
Sodium hydrogen sulfate, monohydrate	10034-88-5	>95
Sodium bisulfate	7681-38-1	-

4. First-aid measures							
General Advice	If symptoms persist, call a physician.						
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.						
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.						
Inhalation	Move to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.						
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.						
Most important symptoms/effects Notes to Physician	None reasonably foreseeable. Causes severe eye damage. Treat symptomatically						
	5. Fire-fighting measures						
Suitable Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.						
Unsuitable Extinguishing Media	No information available						
Flash Point Method -	No information available No information available						
Autoignition Temperature Explosion Limits Upper Lower Sensitivity to Mechanical Impact Sensitivity to Static Discharge	No data available No data available t No information available No information available						

#### Specific Hazards Arising from the Chemical

Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes.

#### Hazardous Combustion Products Sulfur 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.

<u>NFPA</u> Health	Flammability	Instability	Physical hazards				
3	0	1	N/A				
	6. Accidental re	lease measures					
Personal Precautions Environmental Precautions	Use personal protective eo Should not be released int	quipment. Ensure adequate ver o the environment.	ntilation. Avoid dust formation.				
Methods for Containment and Clean Sweep up or vacuum up spillage and collect in suitable container for disposal. Keep in suitable, closed containers for disposal.							
	7. Handling	and storage					
Handling		equipment. Ensure adequate ve ingestion and inhalation. Avoid	entilation. Do not get in eyes, on dust formation.				
Storage	Keep containers tightly clo	sed in a dry, cool and well-vent	tilated place.				
8. E	xposure controls	/ personal protecti	on				
Exposure Guidelines	•	tain any hazardous materials w gion 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.

Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

#### Personal protective equipment

Eye Protection Hand Protection	Goggles Protective gloves		
Glove material Natural rubber Nitrile rubber Neoprene PVC	Breakthrough time See manufacturers recommendations	Glove thickness -	Glove comments Splash protection only

Inspect gloves before use. observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information) gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. gloves with care avoiding skin contamination.

#### **Respiratory Protection**

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. 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. To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained properly **Recommended Filter type:** Particulates filter conforming to EN 143

When RPE is used a face piece Fit Test should be conducted

#### Environmental exposure controls

No information available.

#### **Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical propertie	9.	Physical	and	chemical	properties	
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Physical State
Appearance
Odor
Odor Threshold
рН
Melting Point/Range
Boiling Point/Range
Flash Point
Evaporation Rate
Flammability (solid,gas)
Flammability or explosive limits
Upper
Lower
Vapor Pressure
Vapor Density
Specific Gravity
Solubility
Partition coefficient; n-octanol/water
Autoignition Temperature
Decomposition Temperature
Viscosity
Molecular Formula
Molecular Weight

Solid White No information available No information available ~ 1 (@ 20) 5% aq. sol 58 °C / 136.4 °F No information available No information available Not applicable No information available

No data available No data available No information available Not applicable 2.12 No information available No data available

No information available Not applicable H Na O4 S . H2 O 138.08

## 10. Stability and reactivity

None known, based on information available
Moisture sensitive.
Avoid dust formation. Incompatible products. Excess heat. Exposure to moist air or water.
Strong oxidizing agents, Strong bases
ts Sulfur oxides
Hazardous polymerization does not occur.
None under normal processing.

## 11. Toxicological information

#### Acute Toxicity

#### Product Information

# Component Information

	Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	1
Γ	Sodium bisulfate	LD50 = 2490 mg/kg (Rat)	Not listed	Not listed	Í Í
		5 5 ( <i>,</i>			ĺ
ī	oxicologically Synergistic	No information available			

Irritation		Risk of serious damage to eyes						
Sensitization		No information ava	ailable					
Carcinogenicity		The table below in	dicates whether ea	ach agency has lis	ed any ingredient	as a carcinoge		
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico		
Sodium hydrogen sulfate, monohydrate	10034-88-5	Not listed	Not listed	Not listed	Not listed	Not listed		
Sodium bisulfate	7681-38-1	Not listed	Not listed	Not listed	Not listed	Not listed		
Developmental Effe	cts	No information available. No information available. None known None known						
STOT - single expos STOT - repeated exp								
Aspiration hazard		No information available						
Symptoms / effects delayed	,both acute and	No information available						
Endocrine Disrupto	Information	No information available						

**Other Adverse Effects** 

The toxicological properties have not been fully investigated.

12. Ecological information

Products

Ecotoxicity Do not empty into drains.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea	
Sodium bisulfate	Not listed	Not listed	Not listed	EC50: = 190 mg/L, 48h (Daphnia magna)	
Persistence and Degradability Soluble in water Persistence is unlikely based on information available.					
Bioaccumulation / Accumulation No information available.					
Mobility	Will likely be	mobile in the environment o	due to its water solubilit	у.	
	13. D	isposal considera	itions		
Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is cla hazardous waste. Chemical waste generators must also consult local, regional national hazardous waste regulations to ensure complete and accurate classific				Ilt local, regional, and	

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

#### All of the components in the product are on the following Inventory lists: X = listed

#### International Inventories

Component	DSL	NDSL	TSCA	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Sodium hydrogen sulfate, monohydrate	-	-	-	-	-		Х	-	Х	Х	-
Sodium bisulfate	Х	-	Х	231-665-7	-		Х	Х	Х	Х	Х

#### Canada

SDS in compliance with provisions of information as set out in Canadian Standard - Part 4, Schedule 1 and 2 of the Hazardous Products Regulations (HPR) and meets the requirements of the HPR (Paragraph 13(1)(a) of the Hazardous Products Act (HPA)).

16. Other information	
Prepared By	Regulatory Affairs
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	Email: EMSDS.RA@thermofisher.com
Creation Date	03-November-2010
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Print Date	18-January-2018
Revision Summary	This document has been updated to comply with the requirements of WHMIS 2015 to align with the Globally Harmonised System (GHS) for the Classification and Labelling of Chemicals.

Disclaimer

The information provided in 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text

# **End of SDS**