

SAFETY DATA SHEET

Creation Date 03-Nov-2010

Revision Date 24-Dec-2021

Revision Number 4

1. Identification

Product Name

Sodium Bisulfate Monohydrate (Certified)

Cat No. :

S240-3, S240-3LC, S240-500

CAS No Synonyms 10034-88-5 Sodium hydrogen sulfate

Recommended Use Uses advised against

Laboratory chemicals. Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

Company

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

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

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious Eye Damage/Eye Irritation

Category 1

Label Elements

Signal Word Danger

Hazard Statements Causes serious eye damage



Precautionary Statements Prevention

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

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

Use only outdoors or in a well-ventilated area

Eyes

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 or doctor/physician

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

Hazards not otherwise classified (HNOC)

None identified

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	Remove 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 and	None reasonably foreseeable. Causes severe eye damage.			
effects Notes to Physician	Treat symptomatically			
5. Fire-fighting measures				

Suitable Extinguishing Media	Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.

Unsuitable Extinguishing Media No information available

Flash Point Method -	No information available No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact	
Sensitivity to Static Discharge	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.

NFPA Health 3	Flammability 0	Instability 1	Physical hazards N/A			
	6. Accidental rel	ease measures				
Personal Precautions	Use personal protective equestion formation.	ipment as required. Ensure a	dequate ventilation. Avoid dust			
Environmental Precautions	Should not be released into	the environment.				
Methods for Containment and Cle Up	an Sweep up and shovel into s containers for disposal.	uitable containers for disposa	. Keep in suitable, closed			
	7. Handling a	and storage				
Handling			ure adequate ventilation. Do not halation. Avoid dust formation.			
Storage.	Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible Materials. Strong oxidizing agents. Strong bases.					
8. Exposure controls / personal protection						
Exposure Guidelines		in any hazardous materials w on specific regulatory bodies.	ith occupational exposure			
Engineering Measures		a, especially in confined areas se to the workstation location.	. Ensure that eyewash stations			
Personal Protective Equipment						
Eye/face Protection	Tight sealing safety goggles	S.				
Skin and body protection	Wear appropriate protective	gloves and clothing to prever	nt skin exposure.			
Respiratory Protection	EN 149. Use a NIOSH/MSH	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				
Physical State	Solid			
Appearance	White			
Odor	No information available			
Odor Threshold	No information available			
рН	~ 1 (@ 20) 5% aq. sol			
Melting Point/Range	58 °C / 136.4 °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			
Specific Gravity	2.12			
Solubility	No information available			
Partition coefficient; n-octanol/water	No data available			
Autoignition Temperature	No information available			
Decomposition Temperature	No information available			
Viscosity	Not applicable			
Molecular Formula	H Na O4 S . H2 O			
Molecular Weight	138.08			

10. Stability and reactivity

Reactive Hazard	None known, based on information available		
Stability	Moisture sensitive.		
Conditions to Avoid	Avoid dust formation. Incompatible products. Excess heat. Exposure to moist air or water.		
Incompatible Materials	Strong oxidizing agents, Strong bases		
Hazardous Decomposition Products Sulfur oxides			
Hazardous Polymerization	Hazardous polymerization does not occur.		
Hazardous Reactions	None under normal processing.		

11. Toxicological information

Acute Toxicity

Product Information

Component Information							
Component	LD50 Oral	LD50 Dermal	LC50 Inhalation				
Sodium bisulfate	LD50 = 2490 mg/kg (Rat)	LD50 = 2490 mg/kg (Rat) >2000 mg/kg (rabbit) Not listed					
Toxicologically Synergistic Products Delayed and immediate effects	No information available cts as well as chronic effects from short and long-term exposure_						
rritation	Risk of serious damage to	eyes					
Sensitization	No information available	No information available					
Carcinogenicity	The table below indicates v	The table below indicates whether each agency has listed any ingredient as a carcinogen.					

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
Mutagenic Effects		No information ava	ailable			
Reproductive Effects	i	No information ava	ailable.			
Developmental Effect	ts	No information ava	ailable.			
Teratogenicity		No information ava	ailable.			
STOT - single exposu STOT - repeated expo	•					
Aspiration hazard	iration hazard No information available					
Symptoms / effects,both acute and No information available delayed						
Endocrine Disruptor	ndocrine Disruptor Information No information available					
Other Adverse Effect	Other Adverse Effects The toxicological properties have not been fully investigated.					
12. Ecological information						

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Ecotoxicity
Do not empty into drains.
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Component	Freshwater Algae		Freshwater Fish	Microtox	Water Flea
Sodium bisulfate	Not listed		Not listed	EC10 >1000 mg/l	EC50: = 190 mg/L, 48h
				(Pseudomonas putida) (16h)	(Daphnia magna)
Persistence and Degrada	ability	Solublo in wa	tor Porsistoneo is unlikoly	based on information avail	ablo
Fersistence and Degrada	ability	Soluble III wa	ater Fersisterice is utilikely	based on information avair	able.
Bioaccumulation/Accun	ulation/ Accumulation No information available.				
Mobility Will likely be mobile in the environment due to its water solubility.					
13. Disposal considerations					
Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.			ocal, regional, and		
	14. Transport information				

	14. Transport mormation
DOT	Not regulated
TDG	Not regulated
<u>IATA</u>	Not regulated
IMDG/IMO	Not regulated
	15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Sodium hydrogen sulfate, monohydrate	10034-88-5	-	-	-
Sodium bisulfate	7681-38-1	Х	ACTIVE	-

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed '-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Sodium hydrogen sulfate,	10034-88-5	-	-	-	Х	-		Х	Х	-
monohydrate										
Sodium bisulfate	7681-38-1	Х	-	231-665-7	Х	Х	Х	Х	X	KE-31481

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (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.
U.S. State Right-to-Know Regulations	Not applicable
U.S. Department of Transportation Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.
Other International Regulations	

Other International Regulations

Mexico - Grade

No information available

Authorisation/Restrictions according to EU REACH

Component	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Sodium bisulfate	-	Use restricted. See item 75. (see link for restriction details)	-

https://echa.europa.eu/substances-restricted-under-reach

Safety, health and environmental	regulations/legislation	on specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Sodium hydrogen sulfate, monohydrate	10034-88-5	Not applicable	Not applicable	Not applicable	Not applicable
Sodium bisulfate	7681-38-1	Listed	Not applicable	Not applicable	Not applicable
Component	CAS No	Seveso III Directive (2012/18/EC) - (2012/18/EC) - Qualifying Quantities		Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
		for Major Accident Notification	for Safety Report Requirements		
Sodium hydrogen sulfate, monohydrate	10034-88-5	Not applicable	Not applicable	Not applicable	Not applicable
Sodium bisulfate	7681-38-1	Not applicable	Not applicable	Not applicable	Not applicable

16. Other information

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Creation Date Revision Date Print Date Revision Summary 03-Nov-2010 24-Dec-2021 24-Dec-2021 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 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