

41



SAFETY DATA SHEET

Version 1

Product Name: Sodium Bisulfite 38% Solution
UN/ID No UN-2693
Synonyms: Sodium acid sulfite; sulfurous acid, monosodium salt; sodium hydrogen sulfite, solid
Formula: NaHSO₃
Molecular Weight: 104.06

Company Name:
 Hawkins, Inc. 3100 E. Hennepin Avenue Minneapolis, MN 55413 (612-331-6910)

Emergency Telephone:
 CHEMTREC (US): 1-800-424-9300

GHS - Classification

Skin corrosion/irritation	Category 2
Respiratory sensitization	Category 1A
Skin sensitization	Category 1A
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 1



Signal Word: Danger

Hazard Statements:

- Causes skin irritation
- May cause allergy or asthma symptoms or breathing difficulties if inhaled
- May cause an allergic skin reaction
- May cause respiratory irritation. May cause drowsiness or dizziness
- Causes damage to organs through prolonged or repeated exposure

Physical Hazards

- None

Precautionary Statements:

15979 Sodium Bisulfite 38% Solution

- P332 + P313 - If skin irritation occurs: Get medical advice/attention
- P362 - Take off contaminated clothing and wash before reuse
- P265 - In case of inadequate ventilation wear respiratory protection
- P304 + P341 - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing
- P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician
- P272 - Contaminated work clothing should not be allowed out of the workplace
- P280 - Wear protective gloves/protective clothing/eye protection/face protection
- P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
- P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention
- P321 - Specific treatment (see supplemental first aid instructions on this label)
- P363 - Wash contaminated clothing before reuse
- P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
- P271 - Use only outdoors or in a well-ventilated area
- P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- P312 - Call a POISON CENTER or doctor if you feel unwell
- P403 + P233 - Store in a well-ventilated place. Keep container tightly closed
- P405 - Store locked up
- P260 - Do not breathe dust/fume/gas/mist/vapors/spray
- P264 - Wash face, hands and any exposed skin thoroughly after handling
- P270 - Do not eat, drink or smoke when using this product
- P314 - Get medical advice/attention if you feel unwell
- P501 - Dispose of contents/ container to an approved waste disposal plant

Hazardous

Sodium bisulfite	7631-90-5	37-39	231-548-0
------------------	-----------	-------	-----------

Non-Hazardous

Water	7732-18-5	Balance	231-791-2
-------	-----------	---------	-----------

General Advice:

If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing.

Eye Contact:

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.

Skin Contact:

Consult a physician if necessary. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

Inhalation:

Move to fresh air. Obtain medical attention. If breathing is irregular or stopped, administer artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation.

Ingestion:

Rinse mouth. Drink plenty of water. If symptoms persist, call a physician. Do NOT induce vomiting.

Note to Physicians:

Treat symptomatically.

Self-protection of the First Aider:

Use personal protective equipment as required.

Flammable Properties:

Not considered to be a fire hazard

15979 Sodium Bisulfite 38% Solution

Explosive Properties:

Not considered to be an explosion hazard

Suitable Extinguishing Media:

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

Unsuitable Extinguishing Media:

No information available

Specific Hazards Arising from the Chemical:

Do not allow run-off from fire-fighting to enter drains or water courses

Protective Equipment and Precautions for Firefighters:

In the event of a fire, wear full protective clothing and MSHA/NIOSH (approved or equivalent) self-contained breathing apparatus with full facepiece operated in the pressure-demand or other positive pressure mode

Personal Precautions:

Use only with adequate ventilation.

Environmental Precautions:

Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system.

Methods for Cleaning Up:

Cover liquid spill with sand, earth or other non-combustible absorbent material. Cover powder spill with plastic sheet or tarp to minimize spreading. Pick up and transfer to properly labeled containers.

Other Information:

Not applicable.

Advice on Safe Handling:

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product.

Storage Conditions:

Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children.

Incompatible Materials:

Oxidizing agents; Acids; Bases; Aluminum powder, Sodium nitrite

Exposure Guidelines

Sodium bisulfite	TWA: 5 mg/m ³	(vacated) TWA: 5 mg/m ³	TWA: 5 mg/m ³
Sodium bisulfite		TWA: 5 mg/m ³	5 mg/m ³ TWA: 5 mg/m ³

Exposure Guidelines

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 985 F.2d 962 (11th Cir., 1992)

Engineering Controls:

Ensure adequate ventilation, especially in confined areas

Personal protective equipment (PPE)

Eye/Face Protection:

Tight sealing safety goggles.

Body Protection:

Suitable protective clothing.

General Hygiene Considerations:

Wash contaminated clothing before reuse.

15979 Sodium Bisulfite 38% Solution

9.1. Information on basic physical and chemical properties

Physical State:	Liquid	Odor:	Slight odor of sulfur dioxide
Appearance:	Aqueous solution	Odor Threshold:	No information available
Color:	Colorless to yellowish		

<u>Property</u>	<u>Values</u>	<u>Remarks - Method</u>
pH:		No information available
"Salt Out" Point (°F):		No information available
Melting Point/Freezing Point:	4 °C / 40 °F	
Boiling Point/Boiling Range:		No information available
Flash Point:		No information available
Evaporation Rate (BUAc=1):		No information available
Flammability (solid, gas):		No information available
Flammability Limits in Air:		No information available
Upper Flammability Limit:		
Lower Flammability Limit:		
Vapor Pressure (mm Hg) :		No information available
Vapor density (Air =1)		No information available
Specific Gravity (H2O=1):	1.33 @ 25°C	
Specific Gravity (2nd value):		
Water Solubility:	Soluble in water	No information available
Solubility(ies):		No information available
Partition Coefficient (n-octanol/water)		No information available
Autoignition Temperature:		No information available
Decomposition Temperature:		No information available
Kinematic Viscosity:		No information available
Dynamic Viscosity:		No information available
Oxidizing Properties:	No information available	
Explosive Properties:	Not considered to be an explosion hazard	

9.2. Other Information

Softening Point:	No information available
Molecular Weight:	104.06
VOC Content(%):	No information available
Density:	No information available
Bulk Density:	No information available

Stability:	Stable under normal conditions of use and storage
Conditions to Avoid:	Heat, flames and sparks
Incompatible Materials:	Oxidizing agents; Acids; Bases; Aluminum powder, Sodium nitrite
Hazardous Decomposition Products:	Sulfur oxides
Possibility of Hazardous Reactions:	None under normal processing

Product Information

15979 Sodium Bisulfite 38% Solution

Acute Toxicity: 0% of the mixture consists of ingredient(s) of unknown toxicity.

The following values are calculated based on chapter 3.1 of the GHS document

Sodium bisulfite	1420 mg/kg (Rat)		
Water	80 mL/kg (Rat)		

Chronic Toxicity:

Carcinogenicity: The table below indicates whether each agency has listed any ingredient as a carcinogen. This product contains one or more substances which are classified by IARC as carcinogenic to humans (Group I), probably carcinogenic to humans (Group 2A) or possibly carcinogenic to humans (Group 2B).

Sodium bisulfite	Group 3
------------------	---------

IARC (International Agency for Research on Cancer)
Not classifiable as a human carcinogen

Target Organ Effects: Eyes, Respiratory system, Skin

Ecotoxicity

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Sodium bisulfite	240: 96 h <i>Gambusia affinis</i> mg/L LC50 static	119: 48 h <i>Daphnia magna</i> mg/L EC50
------------------	---	---

Persistence and Degradability: No information available.

Bioaccumulation: No information available.

Mobility: No information available.

Waste from Residues/Unused Products: Disposal should be in accordance with applicable regional, national and local laws and regulations

IATA

DOT

Proper shipping name BISULFITES, AQUEOUS SOLUTIONS, N.O.S. (SODIUM BISULFITE)
Hazard Class 8
UN/ID No UN-2693
Packing Group III
Description UN2693, BISULFITES, AQUEOUS SOLUTIONS, N.O.S. (SODIUM BISULFITE), 8, PG III

15979 Sodium Bisulfite 38% Solution



TOG

MEX

International Inventories

All of the components in the product are on the following inventory lists: TSCA (United States); Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Australia (AICS), South Korea (KECL); China (IECSC), Philippines (PICCS), This product contains a substance not listed on international inventories - it is for research and development use only.

AICS Complies
 TSCA Complies
 DSL/NDSL Complies
 EINECS/ELINCS Complies
 ENCS -
 IECSC Complies
 KECL Complies
 PICCS Complies

Chemical Name	AICS	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS
Sodium bisulfite	Listed	Listed	Listed	-	Listed	-	(1)-502	Listed	KE-31484	Present
Water	Listed	Listed	Listed	-	Listed	-	-	Listed	KE-95400	Present

Inventory Legend

AICS - Australian Inventory of Chemical Substances
 TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
 DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
 EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
 ENCS - Japan Existing and New Chemical Substances
 IECSC - China Inventory of Existing Chemical Substances
 KECL - Korean Existing and Evaluated Chemical Substances
 PICCS - Philippines Inventory of Chemicals and Chemical Substances

RESTRICTIONS - REACH TITLE VII No information available

US Federal Regulations

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	CERCLA Hazardous Substances and the Reportable Quantities	SARA Extremely Hazardous Substances EPCRA RQ	SARA Extremely Hazardous Substances TPO
Sodium bisulfite	5000 lb 2270 kg	-	-

15979 Sodium Bisulfite 38% Solution

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	Yes

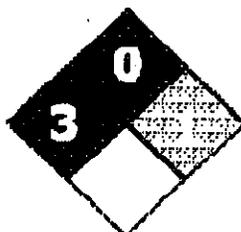
U.S. State Right-to-Know Regulations

California Proposition 65:

This product does not contain any Proposition 65 chemicals



National Fire Protection Association (NFPA) Ratings



Prepared By: Adam Peterson, Rob Kelley, Andrew Morabu and Todd Bain from the HSE department.
Issue Date: 11-Oct-2012
Revision Date: 11-Oct-2012
Revision Note: MSDS converted to GHS SDS Format.

Disclaimer:

Please be advised that it is your responsibility to inform your employees of the hazards of this substance, to advise them of what these properties mean and be sure they understand exposure information. 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 presented herein, while not guaranteed, was prepared by competent technical personnel and is true and accurate to the best of our knowledge. No warranty or guaranty, express or implied, is made regarding performance, stability, or otherwise. This information is not intended to be all-inclusive as to the manner and conditions of use, handling, and storage. Other factors may require additional safety or performance considerations. While our technical personnel will be happy to respond to questions regarding safe handling and use procedures, the handling and use remains the responsibility of the consumer. No suggestions are intended as, and should not be constructed as, a recommendation to infringe on any existing patents or to violate any Federal, State, or local laws.

End of Safety Data Sheet