

SAFETY DATA SHEET

1. Identification

Product identifier Sodium Bisulfite Solution

Other means of identification

SDS number AUC-007

Synonyms Aqua Guard Sodium Bisulfite Solution 38% * Aqua Guard Sodium Bisulfite Solution 25% * Aqua

Guard Sodium Bisulfite * Sodium Bisulfite * Bisulfite

Recommended use Used for dechlorination, oxygen scavenger, chrome reduction, hydrogen peroxide reduction,

photographs, beverages & food.

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name Allied Universal Corporation
Address 3901 N.W. 115th Avenue

Miami, FL 33178 United States

Telephone General: 1-305-888-2623

24-Hour alert: 1-786-522-0207

Website www.allieduniversal.com

E-mail Not available.

Contact person Operations Department

Emergency phone number CHEMTREC 1-800-424-9300 (US/Canada)

+01 703-527-3887 (International)

Supplier Refer to Manufacturer

2. Hazard(s) identification

Physical hazards This mixture does not meet the classification criteria according to OSHA HazCom 2012.

Health hazardsSkin corrosion/irritationCategory 1CSerious eye damage/eye irritationCategory 1

Sensitization, skin

Category 1

Category 1

Specific target organ toxicity, single exposure Category 3 narcotic effects

Environmental hazards This mixture does not meet the classification criteria according to OSHA HazCom 2012.

OSHA defined hazards This mixture does not meet the classification criteria according to OSHA HazCom 2012.

Label elements



Signal word Danger

Hazard statement Causes severe skin burns and eye damage. May cause an allergic skin reaction. Causes serious

eye damage. May cause drowsiness or dizziness.

Precautionary statement

Prevention Do not breathe mist or vapor. Wash thoroughly after handling. Use only outdoors or in a

well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Wear

protective gloves/protective clothing/eye protection/face protection.

Response Specific treatment (see this label). If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin

(or hair):Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. 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.

Material name: Sodium Bisulfite Solution

SDS US

Disposal

classified (HNOC)

Hazard(s) not otherwise

Dispose of contents/container in accordance with local/regional/national/international regulations.

No OSHA defined hazard classes. OSHA defined hazard class:

May be corrosive to metals. Contact with most metals will generate flammable hydrogen gas.

May be harmful if swallowed. May cause respiratory irritation. Ingestion may cause

gastrointestinal irritation, nausea, vomiting and diarrhea.

Supplemental information

None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Sodium Bisulfite	Sodium hydrogen sulfite Sodium hydrosulfite	7631-90-5	10-40
Other components below reportable levels			60-90

^{*}Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

IF INHALED: Remove person to fresh air and keep comfortable for breathing. If breathing is Inhalation

difficult, give oxygen. If breathing stops, provide artificial respiration. Immediately call a POISON

CENTER or doctor/physician.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with Skin contact

water/shower. Duration of rinsing should be at least 20 minutes. If skin irritation or rash occurs: Get

medical advice/attention. Wash contaminated clothing before reuse.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present Eye contact

and easy to do. Continue rinsing. Duration of rinsing should be at least 20 minutes. Immediately

call a POISON CENTER or doctor/physician.

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. Ingestion

Do not induce vomiting. Never give anything by mouth to a victim who is unconscious or is having

convulsions.

Most important symptoms/effects, acute and

delaved

May cause allergic skin reaction. May cause drowsiness or dizziness. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Causes severe skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin. May cause respiratory irritation. Symptoms may include upper

respiratory irritation, coughing, and breathing difficulties.

Indication of immediate medical attention and special

treatment needed **General information** Immediate medical attention is required. Could cause skin burns and eye damage. Provide general supportive measures and treat symptomatically. This product is a CNS depressant.

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical

Toxic fumes, gases or vapors may evolve on burning.

Special protective equipment and precautions for firefighters

Fire fighting equipment/instructions

Specific methods

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Evacuate area and fight fire from a safe distance. Move containers from fire area if you can do so without risk. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

Use standard firefighting procedures and consider the hazards of other involved materials.

Not considered flammable. General fire hazards

Hazardous combustion

products

Sulfur oxides (SOx). Sulfur dioxide.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Ventilate the contaminated area. Stop leak if you can do so without risk. Dike the spilled material, where this is possible. Absorb spill with vermiculite or other inert material. Pick up and transfer to properly labeled containers. For waste disposal, see section 13 of the SDS.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Use only outdoors or in a well-ventilated area. Avoid breathing mist or vapor. Avoid contact with eyes, skin and clothing. Label containers appropriately. Keep containers closed when not in use. Contaminated work clothing must not be allowed out of the workplace. Keep away from incompatibles, refer to section 10. Avoid release to the environment. Wash hands after handling and before eating. Wear protective gloves/clothing and eye/face protection. Persons with recurrent skin eczema or sensitization problems should be excluded from working with this product. Once a person is sensitized, no further exposure to the material that caused the sensitization should be permitted.

Conditions for safe storage, including any incompatibilities Store locked up. Keep container tightly closed. Store away from incompatible materials (see Section 10 of the SDS). Store in a cool, dry place out of direct sunlight. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel.

8. Exposure controls/personal protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Material	Туре	Value	
Sodium Bisulfite Solution	TWA	5 mg/m3	
Components	Туре	Value	
Sodium Bisulfite (CAS 7631-90-5)	TWA	5 mg/m3	
US. NIOSH: Pocket Guide to Che	mical Hazards		
Material	Туре	Value	
Sodium Bisulfite Solution	TWA	5 mg/m3	
Components	Type	Value	

Biological limit values

7631-90-5)

Sodium Bisulfite (CAS

Appropriate engineering controls

No biological exposure limits noted for the ingredient(s).

TWA

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

5 mg/m3

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles) and a face shield. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

Skin protection

Hand protection

Wear appropriate chemical-resistant gloves. Advice should be sought from glove suppliers.

Other

Thermal hazards

Wear suitable protective clothing and eye/face protection.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment. Use a NIOSH approved respirator if there is a risk of exposure at levels exceeding the exposure limits. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134). Seek advice from respiratory protection specialists.

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Contaminated work clothing should not be allowed out of the workplace.

9. Physical and chemical properties

Appearance

Liquid. Physical state **Form** Liquid. Straw colored. Color

Material name: Sodium Bisulfite Solution

Odor Pungent, sulfer-like odor.

Odor threshold Not available. pH Not available.

Melting point/freezing point > 17.96 °F (> -7.8 °C)

Initial boiling point and boiling

range

Decomposes

Flash point Does not burn

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not applicable.

Flammability limit - upper

(%)

Not applicable.

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure 9 mm Hg

Vapor pressure 9 mm ng
Vapor density Not available.
Relative density Not available.

Solubility(ies)

Solubility (water) Soluble

Partition coefficient

Not available.

(n-octanol/water)

Auto-ignition temperatureNot applicable.Decomposition temperature219.2 °F (104 °C)ViscosityNot available.

Other information

Density 1.33 g/cm3 (for a 38% solution); 1.20 g/cm3 (for a 25% solution)

Explosive properties Not explosive.

Molecular formula H2-O3-S.Na

Molecular weight 104.06 g/mol

Oxidizing properties No oxidizing properties.

pH in aqueous solution 4.1 - 4.6

Specific gravity 1.33 (for a 38% solution); 1.20 (for a 25% solution)

10. Stability and reactivity

ReactivityThe product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions. Decomposes on heating.

Possibility of hazardous

reactions

Hazardous polymerization does not occur. No dangerous reaction known under conditions of

normal use.

Conditions to avoid Contact with incompatible materials. Exposure to air. Keep away from heat, sparks and open

flame. Elevated temperatures. Keep away from direct sunlight. Do not use in areas without

adequate ventilation.

Incompatible materials Strong oxidizing agents. Strong acids. Metals.

Hazardous decomposition

products

None known, refer to hazardous combustion products in Section 5.

11. Toxicological information

Information on likely routes of exposure

Inhalation Inhalation of dusts may cause respiratory irritation. May cause central nervous system effects.

Skin contact Causes severe skin irritation. May cause an allergic skin reaction.

Eye contact Causes serious eye damage.

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

Most important symptoms/effects, acute and delayed

May cause allergic skin reaction. May cause drowsiness or dizziness. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Causes severe skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin. May cause respiratory irritation. Symptoms may include upper respiratory irritation, coughing, and breathing difficulties.

Information on toxicological effects

The below product data is the calculated ATE values for this mixture. Individual ingredient **Acute toxicity**

component data appears below the product mixture ATE values.

Product Species Test Results

Sodium Bisulfite Solution

Acute Oral

> Rat 3736.85 mg/kg (Calculated ATE)

Components **Test Results** Species

Sodium Bisulfite (CAS 7631-90-5)

Acute Dermal

> Rabbit No Data in Literature

Inhalation

Rat No Data in Literature

Oral

Rat 1420 mg/kg

Skin corrosion/irritation Hazardous by OSHA criteria. Skin corrosion/irritation - Category 1

Causes severe skin burns and eye damage.

Serious eye damage/eye

irritation

Hazardous by OSHA criteria. Serious eye damage/eye irritation - Category 1

Causes serious eye damage.

Respiratory or skin sensitization

Respiratory sensitization Not hazardous by OSHA criteria. May cause asthma-like reaction in hyper-sensitive persons.

Skin sensitizer Hazardous by OSHA criteria. Skin Sensitization - Category 1. May cause an allergic skin reaction.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

Sodium Bisulfite (CAS 7631-90-5) 3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

This product is not expected to cause reproductive or developmental effects. Reproductive toxicity

Specific target organ toxicity -

single exposure

Hazardous by OSHA criteria. Specific Target Organ Toxicity (STOT), Single Exposure: Category 3

. May cause drowsiness or dizziness.

Specific target organ toxicity -

repeated exposure

Not classified as a specific target organ toxicity -repeated exposure.

Not expected to be an aspiration hazard. **Aspiration toxicity**

Chronic effects Prolonged inhalation may be harmful. None known or reported by the manufacturer.

12. Ecological information

Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Material name: Sodium Bisulfite Solution

^{*} Estimates for product may be based on additional component data not shown.

Components Species Test Results

Sodium Bisulfite (CAS 7631-90-5)

Aquatic

Fish LC50 Western mosquitofish (Gambusia affinis) 240 mg/l, 96 hours

Persistence and degradability Product is non-biodegradable, since it is an inorganic mineral product.

Bioaccumulative potential No data available.

Mobility in soil High water solubility indicates a high mobility in soil.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructionsCollect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of

contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

14. Transport information

DOT

UN number UN2693

UN proper shipping name Bisulfites, aqueous solutions, n.o.s. (Sodium Bisulfite RQ = 5000)

Transport hazard class(es)

Class 8
Subsidiary risk Label(s) 8
Packing group III

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisions IB3, T7, TP1, TP28

Packaging exceptions 154
Packaging non bulk 203
Packaging bulk 241

IATA

UN number UN2693

UN proper shipping name Bisulfites, aqueous solution, n.o.s. (Sodium Bisulfite)

Transport hazard class(es)

Class 8
Subsidiary risk Packing group III
Environmental hazards No.
ERG Code 8L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo A

aircraft

Allowed.

Cargo aircraft only Allowed.

IMDG

UN number UN2693

UN proper shipping name Transport hazard class(es)

Bisulfites, aqueous solution, n.o.s. (Sodium Bisulfite)

Class 8 Subsidiary risk -

^{*} Estimates for product may be based on additional component data not shown.

Packing group

Environmental hazards

Marine pollutant No.

Ш

EmS F-A, S-B

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Not established.

Transport in bulk according to Annex II of MARPOL 73/78 and

Annex II of MARPOL 73/78 ar the IBC Code

DOT



IATA; IMDG



15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Sodium Bisulfite (CAS 7631-90-5) 5000 lbs.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Skin Corrosion

Eye Damage Skin sensitization

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous N

No

chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Clean Water Act (CWA) Section 112(r) (40 CFR

Hazardous substance

68.130)

Safe Drinking Water Act

Not regulated.

(SDWA)

US state regulations

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

US. Massachusetts RTK - Substance List

Sodium Bisulfite (CAS 7631-90-5)

US. New Jersey Worker and Community Right-to-Know Act

Sodium Bisulfite (CAS 7631-90-5)

US. Pennsylvania Worker and Community Right-to-Know Law

Sodium Bisulfite (CAS 7631-90-5)

US. Rhode Island RTK

Sodium Bisulfite (CAS 7631-90-5)

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

Australian Inventory of Chemical Substances (AICS)

International Inventories

Australia

Country(s) or region

Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

Toxic Substances Control Act (TSCA) Inventory

16. Other information, including date of preparation or last revision

Inventory name

Revision date 07-09-2024 01-26-2015 Issue date

Version # 02

United States & Puerto Rico

H= 2 F=0 R=0 **HMIS**

NFPA H= 2 F=0 R=0

Maximum use level for sodium bisulfite under NSF/ANSI Standard 60 - Maximum use in potable water is 46 mg/L for 38% sodium bisulfite.

Material name: Sodium Bisulfite Solution

On inventory (yes/no)*

Yes

Yes

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

List of abbreviations

ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstract Services

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

DOT: Department of Transportation

EC: Effective Concentration

HMIS: Hazardous Materials Identification System HSDB: Hazardous Substances Data Bank

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association

IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous

Chemicals in Bulk

ICAO: International Civil Aviation Organisation IMDG: International Maritime Dangerous Goods

LC: Lethal Concentration

LD: Lethal Dose

MARPOL: Marine Pollution

NFPA: National Fire Protection Association

NIOSH: National Institute for Occupational Safety and Health

NOEC: No Observable Effect Concentration

NTP: National Toxicology Program

OECD: Organization for Economic Cooperation and Development

OEL: National Occupational Exposure Limits

OSHA: Occupational Safety and Health Administration

PPE: Personal Protective Equipment

RCRA: Resource Conservation and Recovery Act

RQ: Reportable Quantity

RTECS: Registry of Toxic Effects of Chemical Substances

RTK: Right to Know

SARA: Superfund Amendments and Reauthorization Act

SDS: Safety Data Sheet

STEL: Short Term Exposure Limit TSCA: Toxic Substances Control Act TWA: Time Weighted Average VOC: Volatile Organic Compounds WEL: Workplace Exposure Limit

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Disclaimer

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Bibliography

- ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biologic Exposure Indices
- 2. ECHA European Chemical Agen
- 3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databas
- 4. Safety Data Sheets from manufacture
- 5. US EPA Title III List of Lis
- 6. California Proposition 65 Li
- 7. OECD The Global Portal to Information on Chemical Substances eChemPort