



Safety Data Sheet

Revision Date Jan-06-2017

Item #10592

Safety Data Sheet 0599

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Sodium Bisulfite 38% Solution
UN/ID No. UN2693
Synonyms No information available
Recommended Use Reserved for industrial and professional use
Uses advised against Consumer uses: Private households (= general public = consumers).

CONTROLLED DOCUMENT
IF STAMPED IN RED

Company Name

PVS Chemical Solutions Inc.
10900 Harper Ave.
Detroit, MI 48213
313-921-1200

24 Hour Emergency Phone Number CHEMTREC 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

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

Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 1 Sub-category C
Serious eye damage/eye irritation	Category 1

Emergency Overview

Hazard statements

Causes severe skin burns and eye damage
Causes serious eye irritation
Harmful if swallowed

Physical hazards

Do not handle until all hazard precautions have been read and understood



Precautionary statements

Prevention

- Wear protective gloves/protective clothing/eye protection/face protection
- Do not breathe dust/fume/gas/mist/vapors/spray
- Wash face, hands and any exposed skin thoroughly after handling
- Do not eat, drink or smoke when using this product

Response

- Immediately call a POISON CENTER or doctor/physician
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

Storage

- Wash contaminated clothing before reuse
- Store in a well-ventilated place. Keep container tightly closed
- Store in a secure area

Disposal

- Dispose of in accordance with federal, state and local regulations

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Hazards not otherwise classified (HNOC) None known.

Other Information

Other hazards • May be harmful if swallowed

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	EC No.	Weight-% *
Water	7732-18-5	231-791-2	62
Sodium bisulfite	7631-90-5	231-548-0	38

4. FIRST AID MEASURES

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	<ul style="list-style-type: none">• Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes• Keep eyes wide open while rinsing• If symptoms persist, call a physician
Skin Contact	<ul style="list-style-type: none">• Consult a physician if necessary• Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes• Wash contaminated clothing before reuse
-Inhalation	<ul style="list-style-type: none">• Remove to fresh air• If breathing is irregular or stopped, administer artificial respiration• If breathing is difficult, give oxygen• If symptoms persist, call a physician
Ingestion	<ul style="list-style-type: none">• Call a physician or poison control center immediately• Do NOT induce vomiting• Rinse mouth• Drink 1 or 2 glasses of water• Never give anything by mouth to an unconscious person
Note to physician	<ul style="list-style-type: none">• Treat symptomatically
Self-protection for first aid personnel	<ul style="list-style-type: none">• Use personal protective equipment as required

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	<ul style="list-style-type: none">• Dry chemical, CO₂, water spray or alcohol-resistant foam• Use extinguishing measures that are appropriate to local circumstances and the surrounding environment
Unsuitable extinguishing media	<ul style="list-style-type: none">• No information available
Specific hazards arising from the chemical	<ul style="list-style-type: none">• Thermal decomposition can lead to release of irritating and toxic gases and vapors• Sulfur Oxides (SO_x)
Protective equipment and precautions for firefighters	<ul style="list-style-type: none">• Wear a self-contained breathing apparatus and chemical protective clothing
Flammable properties	<ul style="list-style-type: none">• Not flammable
Explosive properties	<ul style="list-style-type: none">• No information available

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6. ACCIDENTAL RELEASE MEASURES

Personal precautions	<ul style="list-style-type: none">• Evacuate personnel to safe areas• Use personal protective equipment as required
Environmental precautions	<ul style="list-style-type: none">• Keep people away from and upwind of spill/leak• For small spills, absorb material with clay absorbent or other compatible material. Dispose of the waste material according to local, state and governmental requirements.• For large spills, contain the material using barriers of absorbent pigs, clay absorbent or earth dams.
Methods for cleaning up	<ul style="list-style-type: none">• Cover liquid spill with sand, earth or other non-combustible absorbent material• Pick up and transfer to properly labeled containers• Cover powder spill with plastic sheet or tarp to minimize spreading
Other Information	<ul style="list-style-type: none">• No information available

7. HANDLING AND STORAGE

Advice on safe handling	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• Keep container tightly closed in a dry and well-ventilated place• Keep out of the reach of children
Incompatible materials	Acids, Oxidizers

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium bisulfite 7631-90-5	TWA: 5 mg/m ³		TWA: 5 mg/m ³

Exposure Guidelines

Engineering Controls Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Respiratory protection	<ul style="list-style-type: none">• A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant the use of a respirator.
Eye/Face protection	<ul style="list-style-type: none">• Tight sealing safety goggles
Skin and body protection	<ul style="list-style-type: none">• Wear suitable protective clothing• Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact
General Hygiene Considerations	<ul style="list-style-type: none">• Handle in accordance with good industrial hygiene and safety practice• Do not eat, drink or smoke when using this product

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Liquid
Appearance	clear
Color	colorless or slight yellow
Odor	Sulfur dioxide
Odor threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	3-5	

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Melting point/Freezing Point	No information available
Boiling point / boiling range	No information available
Flash point	No information available
Evaporation rate	No information available
Flammability (solid, gas)	No information available
Flammability Limit in Air	
Upper flammability limit (%)	No information available
Lower flammability limit (%):	No information available
Vapor pressure	78 mm Hg @ 37.7 °C
Vapor density	No information available
Specific Gravity	1.3-1.37
Water solubility	Miscible in water
Solubility in other solvents	No information available
Partition coefficient	No information available
Autoignition temperature	No information available
Decomposition temperature	No information available
Kinematic viscosity	No information available
Dynamic viscosity	No information available
Explosive properties	No information available
Oxidizing properties	No information available
Other Information	
Softening point °C	No information available
Molecular weight	No information available
VOC Content (%)	No information available
Density	No information available
Bulk density	10.8-11.4 Pounds per gallon (lb/gal)

10. STABILITY AND REACTIVITY

Stability	• Stable under recommended storage conditions
Conditions to avoid	• Elevated temperature
Incompatible materials	• Acids • Oxidizers
Hazardous Decomposition Products	• Reacts with acids to liberate corrosive and toxic sulfur dioxide • Thermal decomposition can lead to release of irritating and toxic gases and vapors • Sulfur Oxides (SO _x) • Carbon oxides (CO _x)
Possibility of Hazardous Reactions	• None under normal processing and storage

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principle Routes of Exposure	-Inhalation, Skin Contact, Eye contact
-Inhalation	May cause irritation of respiratory tract. Avoid breathing vapors or mists.
Ingestion	May be harmful if swallowed.
Skin Contact	May cause skin irritation and/or dermatitis.
Eye contact	Causes eye irritation.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Water 7732-18-5	> 90 mL/kg (Rat)		
Sodium bisulfite 7631-90-5	= 1310 mg/kg (Rat)		

Information on toxicological effects

Symptoms	No information available
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Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No information available.
Germ cell mutagenicity No information available.
Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Sodium bisulfite 7631-90-5		Group 3		

IARC (International Agency for Research on Cancer)

Not classifiable as a human carcinogen

Reproductive toxicity No information available.
STOT - single exposure No information available.
STOT - repeated exposure No information available.
Target Organ Effects Eyes, Respiratory system, Skin.
Aspiration hazard No information available.

Numerical measures of toxicity - Product Information

Unknown 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 .

12. ECOLOGICAL INFORMATION

Ecotoxicity

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

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Sodium bisulfite 7631-90-5			119: 48 h Daphnia magna mg/L EC50

Persistence and degradability No information available.
Bioaccumulation No information available

Other adverse effects No information available

13. DISPOSAL CONSIDERATIONS

Disposal of wastes

- Dispose of in accordance with federal, state and local regulations
- Dispose of hazardous waste in a RCRA licensed facility

Contaminated packaging

- Do not reuse container

US EPA Waste Number

- D002

14. TRANSPORT INFORMATION

DOT

Proper shipping name Bisulfites, aqueous solution, n.o.s.
Hazard Class 8
UN/ID No. UN2693
Packing Group III
RQ (lbs)(dry) 5000
RQ as is (lbs)(wet) 13157
Technical Name Description SODIUM BISULFITE
Description UN2693, Bisulfites, aqueous solution, n.o.s., 8, III, RQ
Special Provisions IB3, T7, TP1, TP28
Emergency Response Guide Number 154

Transport Canada

UN/ID No. UN2693
Proper shipping name Bisulfites, aqueous solution, n.o.s.
Hazard Class 8
Packing Group III
Description UN2693, Bisulfites, aqueous solution, n.o.s., 8, III

Sodium Bisulfite 38% Solution**IATA**

UN/ID No. UN2693
 Proper shipping name Bisulphites, aqueous solution, n.o.s.
 Hazard Class 8
 Packing Group III
 ERG Code 8L

IMDG

UN/ID No. UN2693
 Proper shipping name Bisulphites, aqueous solution, n.o.s.
 Hazard Class 8
 Packing Group III
 EmS-No. F-A, S-B
 Special Provisions 274

15. REGULATORY INFORMATION**US Federal Regulations****SARA 311/312 Hazard Categories**

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

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

U.S. - TSCA (Toxic Substances Control Act) - Section 5(a)(2) - Chemicals with Significant New Use Rules (SNURs)**CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sodium bisulfite 7631-90-5	5000 lb			X

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	Hazardous Substances RQs	CERCLA/SARA RQ	RQ (lbs)(dry)
Sodium bisulfite 7631-90-5	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ

Canada**WHMIS Classification**

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 Classification

E - Corrosive material



D2B - Toxic materials

US State Regulations**California Proposition 65**

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

Sodium Bisulfite 38% Solution

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Water 7732-18-5			X
Sodium bisulfite 7631-90-5	X	X	X

International Inventories

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Does not comply
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

Legend:

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
AICS - Australian Inventory of Chemical Substances

16. OTHER INFORMATION

<u>NFPA</u>	Health hazards 2	Flammability 0	Instability 0	Physical and Chemical Properties
<u>HMIS</u>	Health hazards 2	Flammability 0	Physical hazards 0	Personal protection B

Item #	10592
Safety Data Sheet	0599
Revision Date	Jan-06-2017
Issue Date	Jan-06-2017
Version	1.03
Revision Note	*** Updated value on SDS.

Disclaimer

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End of Safety Data Sheet