
1. Product and Company Identification

Product Name	Sodium Bisulphite
Synonym(s)	Sodium acid sulfite, Sulfurous acid monosodium salt, Sodium hydrogensulphite, Sodium disulfite, Sodium bisulphite
CAS #	Mixture
Product Use	Industrial applications
Supplier information	PVS Benson 1012 Gore Road Freelton, ON L0R1K0 CA Phone: 1-800-265-0014 Emergency Services (24 hours / 7 days): 1-519-821-0215

2. Hazards Identification

Emergency overview	DANGER -- CORROSIVE CAUSES SKIN AND EYE BURNS. May cause sensitisation by inhalation.
Potential short term health effects	
Routes of exposure	Eye, Skin contact, Inhalation, Ingestion.
Eyes	Causes chemical burns. May cause blindness.
Skin	Causes chemical burns.
Inhalation	May cause respiratory tract irritation or chemical burns. Sulphur dioxide given off by this product has been shown to cause breathing difficulties in asthmatics.
Ingestion	Harmful if swallowed. May cause chemical burns to mouth, throat and stomach.
Target organs	Eyes. Respiratory system. Skin.
Chronic effects	Prolonged or repeated exposure to dilutions can cause drying, defatting and dermatitis.
Signs and symptoms	The product may cause burns to eyes, skin and mucous membranes.
Potential environmental effects	See section 12.

3. Composition/Information on ingredients

Components	CAS #	Percent
Sodium bisulphite	7631-90-5	30 - 60

4. First Aid Measures

First aid procedures	
Eye contact	Immediately flush with cool water. Remove contact lenses, if applicable, and continue flushing for 15 minutes. Obtain medical attention immediately.
Skin contact	Immediately flush with cool water for 15 minutes while removing contaminated clothing and shoes. Discard or wash well before reuse. Obtain medical attention if irritation persists.
Inhalation	If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.
Ingestion	Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention.
Notes to physician	Symptoms may be delayed.
General advice	If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.

5. Fire-fighting Measures

Flammable properties	Not flammable by WHMIS criteria.
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Extinguishing media	
Suitable extinguishing media	Treat for surrounding material.
Unsuitable extinguishing media	Not available
Protection of firefighters	
Specific hazards arising from the chemical	Firefighters should wear a self-contained breathing apparatus.
Protective equipment for firefighters	Firefighters should wear full protective clothing including self contained breathing apparatus.
Hazardous combustion products	May include and are not limited to: Oxides of sulphur. Oxides of sodium.
Explosion data	
Sensitivity to mechanical impact	Not available.
Sensitivity to static discharge	Not available.

6. Accidental release measures

Personal precautions	Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.
Environmental precautions	Prevent entry into waterways, sewers, basements or confined areas.
Methods for containment	Stop leak if you can do so without risk.
Methods for cleaning up	Should not be released into the environment. Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. Never return spills in original containers for re-use.

7. Handling and storage

Handling	Ensure adequate ventilation. Use good industrial hygiene practices in handling this material. Do not get this material in your eyes, on your skin, or on your clothing. Avoid breathing vapours or mists of this product. Wash thoroughly after handling.
Storage	Keep out of the reach of children. Store in a tightly closed container in a cool, dry and dark place away from incompatible materials.

8. Exposure controls/Personal protection

Occupational exposure limits	
US. ACGIH Threshold Limit Values	
Components	Type
Sodium Bisulfite (CAS 7631-90-5)	TWA
	Value
	5 mg/m3
Exposure limits	See above
Engineering controls	Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.
Personal protective equipment	
Eye/Face protection	Chemical splash goggles.
Hand protection	Rubber gloves. Confirm with a reputable supplier first.
Skin and body protection	Use of an impervious apron is recommended.
Respiratory protection	If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection. Respirator should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134), CAN/CSA-Z94.4 and ANSI's standard for respiratory protection (Z88.2).
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

9. Physical and chemical properties

Appearance	Liquid
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Colour	Pale yellow
Form	Liquid
Odour	Sulphurous.
Odour threshold	Not available.
Physical state	Liquid.
pH	Not available.
Freezing point	Not available.
Boiling point	Not available.
Pour point	Not available.
Evaporation Rate	Not available
Flash point	None
Auto-ignition temperature	Not available.
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not available.
Vapour pressure	23.3 hPa @ 20.1°C
Vapour density	Not available.
Specific gravity	1.33 @ 25°C (H2O = 1)
Partition coefficient (n-octanol/water)	Not available.
Solubility (Water)	Complete
Relative density	1.326 g/cm ³
Viscosity	Not available.
VOC	Not available
Percent volatile	Not available

10. Stability and reactivity

Reactivity	This product may react with strong acids. This product may react with oxidizing agents.
Possibility of hazardous reactions	Hazardous polymerisation does not occur.
Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	Heat. Do not mix with other chemicals.
Incompatible materials	Strong oxidizing agents. Acids.
Hazardous decomposition products	May include and are not limited to: Oxides of sulphur. Oxides of sodium.

11. Toxicological information

Toxicological data

Components	Species	Test results
Sodium bisulphite (CAS 7631-90-5)		
Acute		
<i>Inhalation</i>		
LC50	Not available	
<i>Oral</i>		
LD50	Rat	1420 mg/kg

Effects of acute exposure

Eye contact	Causes chemical burns. May cause blindness.
Skin contact	Causes chemical burns.
Inhalation	May cause respiratory tract irritation or chemical burns. Sulphur dioxide given off by this product has been shown to cause breathing difficulties in asthmatics.

Ingestion	Harmful if swallowed. May cause chemical burns to mouth, throat and stomach.
Sensitisation	May cause sensitisation by inhalation.
Chronic effects	Non-hazardous by WHMIS criteria.
Carcinogenicity	Non-hazardous by WHMIS criteria.

ACGIH Carcinogens

Sodium bisulphite (CAS 7631-90-5) A4 Not classifiable as a human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

Sodium bisulphite (CAS 7631-90-5) Volume 54 - 3 Not classifiable as to carcinogenicity to humans.

Mutagenicity	Non-hazardous by WHMIS criteria.
Reproductive effects	Non-hazardous by WHMIS criteria.
Teratogenicity	Non-hazardous by WHMIS criteria.
Name of Toxicologically Synergistic Products	Not available.

12. Ecological information

Ecotoxicity Components of this product have been identified as having potential environmental concerns.

Ecotoxicological data

Components	Species	Test results
Sodium bisulphite (CAS 7631-90-5)		
Crustacea	EC50	Daphnia
		119 mg/L, 48 Hours
Aquatic		
Fish	LC50	Western mosquitofish (<i>Gambusia affinis</i>)
		240 mg/L, 96 hours

Persistence and degradability Not available.

Bioaccumulation/accumulation Not available

Mobility in environmental media Not available.

Environmental effects Harmful to aquatic life.

Aquatic toxicity Not available.

Partition coefficient Not available.

Chemical fate information Not available.

13. Disposal considerations

Disposal instructions Waste must be disposed of in accordance with federal, state/provincial and local environmental control regulations.

Waste from residues / unused products Not available

Contaminated packaging Not available

14. Transport information

Transportation of Dangerous Goods (TDG - Canada)

Basic shipping requirements:

UN number	UN2693
Proper shipping name	Bisulphites, aqueous solution, n.o.s.
Technical name	Sodium bisulphite
Hazard class	8
Packing group	III
Special provisions	16



15. Regulatory information

Canadian federal regulations This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Canada WHMIS Ingredient Disclosure: Threshold limits

Sodium bisulphite (CAS 7631-90-5) 1 %

WHMIS status Controlled

WHMIS classification Class D - Division 2A, Class E - Corrosive Material

WHMIS labeling



Inventory Status

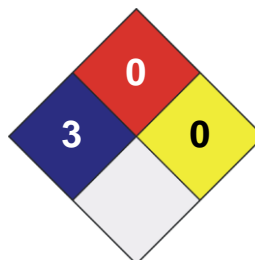
Country(s) or region	Inventory Name	On Inventory (Yes/No)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No

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

16. Other information

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

HEALTH	* 3
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	X



Disclaimer

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

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Other information This MSDS conforms to the ANSI Z400.1/Z129.1-2010 Standard.