

SAFETY DATA SHEET

Version 6.15 Revision Date 23.05.2024 Print Date 08.06.2024

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name	[:] Sodium bisulfite
Product Number Brand	: 243973 : SIGALD
Index-No.	: 016-064-00-8
CAS-No.	: 7631-90-5

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company	:	MilliporeSigma Canada Ltd. 2149 WINSTON PARK DRIVE OAKVILLE ON L6H 6J8 CANADA
Telephone	:	+1 905 829-9500
Fax	:	+1 905 829-9292
Emergency telephone		

Emergency Phone # : +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with Hazardous Products Regulations (HPR) (SOR/2015-17)

Acute toxicity, Oral (Category 4), H302 Eye irritation (Category 2A), H319 Short-term (acute) aquatic hazard (Category 3), H402

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

SIGALD - 243973

1.4

Page 1 of 12



Pictogram	
Signal Word	Warning
Hazard Statements H302 H319 H402	Harmful if swallowed. Causes serious eye irritation. Harmful to aquatic life.
Precautionary Statements P264 P270 P273 P280 P301 + P312 + P330	Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear eye protection/ face protection. IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 P501	If eye irritation persists: Get medical advice/ attention. Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Contact with acids liberates toxic gas.

- none

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Synonyms	: Sodium hydroger	nsulfite	
Formula Molecular weight	: NaHSO3 : 104.06 g/mol		
Component		Classification	Concentration *
sodium hydrogens	ulphite		
CAS-No.	7631-90-5	Acute Tox. 4; Eye Irrit.	<= 100 %
EC-No.	231-548-0	2A; Aquatic Acute 3;	
Index-No.	016-064-00-8	H302, H319, H402	

* Weight %

For the full text of the H-Statements mentioned in this Section, see Section 16.

SIGALD - 243973

Page 2 of 12



SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice

Show this material safety data sheet to the doctor in attendance.

If inhaled

After inhalation: fresh air.

In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

In case of eye contact

After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

If swallowed

After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

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

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Sulfur oxides Sodium oxides Not combustible. Ambient fire may liberate hazardous vapours.

5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

5.4 Further information

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SIGALD - 243973

Page 3 of 12



SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

For personal protection see section 8.

- **6.2 Environmental precautions** Do not let product enter drains.
- **6.3 Methods and materials for containment and cleaning up** Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.
- **6.4** Reference to other sections For disposal see section 13.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** For precautions see section 2.2.
- 7.2 Conditions for safe storage, including any incompatibilities

Storage conditions Tightly closed. Dry. Do not store near acids.

Air and moisture sensitive.

Storage class

Storage class (TRGS 510): 13: Non Combustible Solids

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters

Components	CAS-No.	Value	Control parameters	Basis
			parameters	

SIGALD - 243973

Page 4 of 12



sodium hydrogensulphit e	7631-90-5	TWAEV	5 mg/m3	Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
		TWA	5 mg/m3	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
Remarks	Occupational exposure limit is based on irritation effects and its adjustment to compensate for unusual work schedules is not required		•	
		TWA	5 mg/m3	Canada. British Columbia OEL
		TWA	5 mg/m3	USA. ACGIH Threshold Limit Values (TLV)

8.2 Exposure controls

Appropriate engineering controls

Change contaminated clothing. Preventive skin protection recommended. Wash hands after working with substance.

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

Skin protection

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Full contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested:KCL 741 Dermatril® L

Splash contact

Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested:KCL 741 Dermatril® L

Body Protection

protective clothing

Respiratory protection Recommended Filter type: Filter type P2

SIGALD - 243973

Page 5 of 12



The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented. required when dusts are generated.

Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Control of environmental exposure

Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: solid Color: white
b)	Odor	No data available
c)	Odor Threshold	No data available
d)	рН	4.3 at 10 g/l
e)	Melting point/freezing point	Melting point/range: 300 °C (572 °F)
f)	Initial boiling point and boiling range	No data available
g)	Flash point	()No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	The product is not flammable.
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapor pressure	No data available
I)	Vapor density	No data available
m)	Density	1.348 g/cm3 at 20 °C (68 °F) - OECD Test Guideline 109
	Relative density	No data available
n)	Water solubility	ca.42 g/l at 20 °C (68 °F) - completely soluble
o)	Partition coefficient: n-octanol/water	Not applicable for inorganic substances
p)	Autoignition temperature	Not applicable
q)	Decomposition	No data available

SIGALD - 243973

temperature

Page 6 of 12



- r) Viscosity
- No data available
- s) Explosive properties Not classified as explosive.
- t) Oxidizing properties none
- **9.2 Other safety information** No data available

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

Contact with acids liberates toxic gas.

- **10.2 Chemical stability** The product is chemically stable under standard ambient conditions (room temperature) .
- **10.3 Possibility of hazardous reactions** Generates dangerous gases or fumes in contact with: Acids
- **10.4 Conditions to avoid** no information available
- **10.5 Incompatible materials** Strong oxidizing agents, Strong acids
- **10.6 Hazardous decomposition products** In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Mixture

Acute toxicity

Oral: No data available LD50 Oral - Rat - male and female - 1,540 mg/kg (OECD Test Guideline 401) Symptoms: Possible symptoms:, mucosal irritations LC50 Inhalation - Rat - male and female - 4 h - > 5.5 mg/l - dust/mist

(OECD Test Guideline 403) Remarks: (ECHA) The value is given in analogy to the following substances: sodium sulphite Dermal: No data available

LD50 Dermal - Rat - male and female - > 2,000 mg/kg (OECD Test Guideline 402) Remarks: (ECHA) The value is given in analogy to the following substances: sodium sulphite SIGALD - 243973

Page 7 of 12



No data available

Skin corrosion/irritation

Skin - Rabbit Result: No skin irritation (OECD Test Guideline 404) Remarks: (in analogy to similar products)

Serious eye damage/eye irritation

Remarks: Mixture causes serious eye irritation. Remarks: Causes serious eye irritation. (in analogy to similar products)

Respiratory or skin sensitization

Local lymph node assay (LLNA) - Mouse Result: negative (OECD Test Guideline 429) Remarks: (ECHA) The value is given in analogy to the following substances: sodium sulphite

Germ cell mutagenicity

Test Type: Mutagenicity (mammal cell test): chromosome aberration. Species: Rat

Result: negative Remarks: (ECHA)

Carcinogenicity

Carcinogenicity classification not possible from current data.

Reproductive toxicity

Weight of evidence does not support classification for reproductive toxicity

Specific target organ toxicity - single exposure No data available

Specific target organ toxicity - repeated exposure No data available

Aspiration hazard No data available

11.2 Additional Information

Repeated dose toxicity - Rat - male and female - Oral Remarks: (ECHA)

burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, chest pain To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Other dangerous properties can not be excluded.

SIGALD - 243973

Page 8 of 12



Handle in accordance with good industrial hygiene and safety practice.

Components

sodium hydrogensulphite

Acute toxicity

LD50 Oral - Rat - male and female - 1,540 mg/kg (OECD Test Guideline 401) LC50 Inhalation - Rat - male and female - 4 h - > 5.5 mg/l - dust/mist (OECD Test Guideline 403) Remarks: (ECHA) The value is given in analogy to the following substances: sodium sulphite LD50 Dermal - Rat - male and female - > 2,000 mg/kg (OECD Test Guideline 402) Remarks: (ECHA) The value is given in analogy to the following substances: sodium sulphite No data available

Skin corrosion/irritation

Skin - Rabbit Result: No skin irritation (OECD Test Guideline 404) Remarks: (in analogy to similar products)

Serious eye damage/eye irritation

Remarks: Causes serious eye irritation. (in analogy to similar products)

Respiratory or skin sensitization

Local lymph node assay (LLNA) - Mouse Result: negative (OECD Test Guideline 429) Remarks: (ECHA) The value is given in analogy to the following substances: sodium sulphite

Germ cell mutagenicity

Species: Rat - male Result: negative Remarks: (ECHA)

Carcinogenicity

Carcinogenicity classification not possible from current data.

Reproductive toxicity

Weight of evidence does not support classification for reproductive toxicity

Specific target organ toxicity - single exposure No data available

Specific target organ toxicity - repeated exposure

Aspiration hazard No data available

SIGALD - 243973

Page 9 of 12



SECTION 12: Ecological information

12.1	Toxicity	
	Mixture	
	Toxicity to fish	static test LC50 - Leuciscus idus (Golden orfe) - > 215 - < 464 mg/l - 96 h Remarks: (ECHA) The value is given in analogy to the following substances: potassium sulfite
	Toxicity to daphnia and other aquatic invertebrates	static test EC50 - Daphnia magna (Water flea) - 89 mg/l - 48 h Remarks: (ECHA) The value is given in analogy to the following substances: sodium metabisulphite
	Toxicity to algae	static test ErC50 - Desmodesmus subspicatus (green algae) - 43.8 mg/l - 72 h (OECD Test Guideline 201) Remarks: (ECHA) The value is given in analogy to the following substances: sodium metabisulphite
	Toxicity to bacteria	static test EC50 - activated sludge - > 1,000 mg/l - 3 h (OECD Test Guideline 209) Remarks: (ECHA) The value is given in analogy to the following substances: sodium sulphite
	Toxicity to fish(Chronic toxicity)	flow-through test NOEC - Danio rerio (zebra fish) - >= 316 mg/l $-$ 34 d (OECD Test Guideline 210)
	Toxicity to daphnia and other aquatic invertebrates(Chronic toxicity)	semi-static test NOEC - Daphnia magna (Water flea) - > 10 mg/l - 21 d (OECD Test Guideline 211)
12.2	Persistence and deg Not applicable for inor	
12.3	Bioaccumulative pot No data available	tential
12.4	Mobility in soil No data available	
_	Results of PBT and v PBT/vPvB assessment conducted Endocrine disrupting No data available	not available as chemical safety assessment not required/not

SIGALD - 243973

Page 10 of 12



12.7 Other adverse effects

No data available

Components

sodium hydrogensulphite Toxicity to fish	static test LC50 - Leuciscus idus (Golden orfe) - > 215 - < 464 mg/l - 96 h Remarks: (ECHA) The value is given in analogy to the following substances: potassium sulfite
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SIGALD - 243973

Page 11 of 12



SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

SECTION 14: Transport information

TDG

Not regulated as a dangerous good

IMDG

Not dangerous goods

ΙΑΤΑ

Not dangerous goods

Further information

Not classified as dangerous in the meaning of transport regulations.

SECTION 15: Regulatory information

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

SECTION 16: Other information

Further information

The information is believed to be correct but is not exhaustive and will be used solely as a guideline, which is based on current knowledge of the chemical substance or mixture and is applicable to appropriate safety precautions for the product. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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SIGALD - 243973

Page 12 of 12

