

# SAFETY DATA SHEET

Version 6.15 Revision Date 11/13/2024 Print Date 11/14/2024

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

#### 1.1 Product identifiers

Product name : Sodium bisulfite

Product Number : 799394 Brand : 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

Uses advised against : The product is being supplied under the TSCA R&D Exemption

(40 CFR Section 720.36). It is the recipient's responsibility to comply with the requirements of the R&D exemption. The product may not be used for a non-exempt commercial purpose under TSCA unless appropriate consent is granted in writing by

MilliporeSigma.

### 1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.

3050 SPRUCE ST ST. LOUIS MO 63103 UNITED STATES

Telephone : +1 314 771-5765 Fax : +1 800 325-5052

1.4 Emergency telephone

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +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 29 CFR 1910 (OSHA HCS)

Acute toxicity, Oral (Category 4), H302 Short-term (acute) aquatic hazard (Category 3), H402

SIGALD - 799394

Page 1 of 11



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

# 2.2 GHS Label elements, including precautionary statements

Pictogram

(!)

Signal Word Warning

Hazard Statements

H302 Harmful if swallowed. H402 Harmful to aquatic life.

**Precautionary Statements** 

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P273 Avoid release to the environment.

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel

unwell. Rinse mouth.

P501 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.

# **SECTION 3: Composition/information on ingredients**

### 3.1 Substances

Formula : NaHSO3

Molecular weight : 104.06 g/mol

CAS-No. : 7631-90-5

EC-No. : 231-548-0

Index-No. : 016-064-00-8

Component	Classification	Concentration				
sodium hydrogensulphite						
	Acute Tox. 4; Aquatic	<= 100 %				
	Acute 3; H302, H402					

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

# **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.

SIGALD - 799394

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Page 2 of 11

#### 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. 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.

### **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.

SIGALD - 799394



#### 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.

### Reference to other sections

For disposal see section 13.

# **SECTION 7: Handling and storage**

# 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.

# 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**

# **Control parameters**

Ingredients with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
sodium hydrogensulphite	7631-90-5	TWA	5 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Not classifiable as a human carcinogen		
		TWA	5 mg/m3	USA. NIOSH Recommended Exposure Limits
		PEL	5 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)

# 8.2 Exposure controls

# Appropriate engineering controls

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

SIGALD - 799394



Page 4 of 11

# **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

Handle with impervious gloves.

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

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

b) Odorc) Odor Thresholdd) pHNo data available4.3 at 10 g/l

e) Melting point/ range: 300 °C (572 °F)

SIGALD - 799394

4:11:0000

Page 5 of 11

point/freezing point

f) Initial boiling point and boiling range

No data available

g) Flash point ()Not applicableh) 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 availablel) 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: Not ap n-octanol/water

Not applicable for inorganic substances

p) Autoignition temperature

No data available

q) Decomposition temperature

No data available

r) Viscosity No data available

s) Explosive properties Not classified as explosive.

t) Oxidizing properties none

# 9.2 Other safety information

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

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# 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

# **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

Eyes - In vitro study Result: negative

(OECD Test Guideline 491)

# 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.

SIGALD - 799394

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Page 7 of 11

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No ingredient of this product present at levels greater than or equal to 0.1% is

identified as a known or anticipated carcinogen by NTP.

No component of this product present at levels greater than or equal to 0.1% is OSHA:

on OSHA's list of regulated carcinogens.

### 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.

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# **SECTION 12: Ecological information**

#### 12.1 Toxicity

static test LC50 - Leuciscus idus (Golden orfe) - > 215 - < 464 mg/l Toxicity to fish

- 96 h

Remarks: (ECHA)

The value is given in analogy to the following substances: potassium

Toxicity to daphnia

and other aquatic

static test EC50 - Daphnia magna (Water flea) - 89 mg/l - 48 h

Remarks: (ECHA)

invertebrates

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

SIGALD - 799394 Page 8 of 11



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 flow-through test NOEC - Danio rerio (zebra fish) - >= 316 mg/l -

fish(Chronic toxicity) 34 d

(OECD Test Guideline 210)

Toxicity to daphnia semi-static test NOEC - Daphnia magna (Water flea) - > 10 mg/l -

and other aquatic 21 d

invertebrates(Chronic (OECD Test Guideline 211)

toxicity)

# 12.2 Persistence and degradability

Not applicable for inorganic substances

# 12.3 Bioaccumulative potential

No data available

# 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

# 12.6 Endocrine disrupting properties

No data available

#### 12.7 Other adverse effects

No data available

### **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**

DOT (US)

UN number: 3077 Class: 9 Packing group: III

SIGALD - 799394

Page 9 of 11



Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (sodium

hydrogensulphite)

Reportable Quantity (RQ): 5000 lbs

Poison Inhalation Hazard: No

#### **IMDG**

Not dangerous goods

#### **IATA**

Not dangerous goods

### **Further information**

Not classified as dangerous in the meaning of transport regulations.

# **SECTION 15: Regulatory information**

# **CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
sodium hydrogensulphite	7631-90-5	5000	5000

# SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

# SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312

Hazards

: Acute Health Hazard

**SARA 313** : This material does not contain any chemical

components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by

SARA Title III, Section 313.

#### Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B). This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

#### **Clean Water Act**

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

sodium 7631-90-5 hydrogensulphite >= 90 - <= 100 %

SIGALD - 799394

Page 10 of 11



The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

sodium 7631-90-5 >= 90 - <= 100 %

hydrogensulphite

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

# **US State Regulations**

# **Massachusetts Right To Know**

sodium hydrogensulphite 7631-90-5

# Pennsylvania Right To Know

sodium hydrogensulphite 7631-90-5

# **Maine Chemicals of High Concern**

Product does not contain any listed chemicals

# **Vermont Chemicals of High Concern**

Product does not contain any listed chemicals

# **Washington Chemicals of High Concern**

Product does not contain any listed chemicals

# The ingredients of this product are reported in the following inventories:

TSCA : All substances listed as active on the TSCA inventory

#### **TSCA list**

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

# **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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Version: 6.15 Revision Date: 11/13/2024 Print Date: 11/14/2024

SIGALD - 799394

Page 11 of 11

