

# SAFETY DATA SHEET

Version 6.9 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 solution

**Product Number** : 13438 Brand **SIGALD** 

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

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 +1 800 325-5052

1.4 **Emergency telephone** 

Fax

: 800-424-9300 CHEMTREC (USA) +1-703-Emergency Phone #

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)

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

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Pictogram none Signal Word none

Hazard Statements

H402 Harmful to aquatic life.

**Precautionary Statements** 

P273 Avoid release to the environment.

P501 Dispose of contents/ container to an approved waste disposal

plant.

# 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

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

#### 3.2 Mixtures

Molecular weight : 104.06 g/mol

Component		Classification	Concentration				
sodium hydrogensulphite							
CAS-No. EC-No. Index-No.	7631-90-5 231-548-0 016-064-00-8	Acute Tox. 4; Aquatic Acute 3; H302, H402	>= 30 - < 50 %				

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

#### 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. Remove contact lenses.

#### If swallowed

After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

#### 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

Sodium oxides

Sulfur oxides

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: Do not breathe vapors, aerosols. 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 with liquid-absorbent and neutralising material (e.g. Chemizorb® H<sup>+</sup>, Merck Art. No. 101595). Dispose of properly. Clean up affected area.

#### 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.

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#### Storage class

Storage class (TRGS 510): 12: Non Combustible Liquids

# 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

ingredients with workplace control parameters						
Component	CAS-No.	Value	Control	Basis		
			parameters			
sodium	7631-90-5	TWA	5 mg/m3	USA. ACGIH Threshold Limit		
hydrogensulphite				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. 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

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

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data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the EC approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

# **Respiratory protection**

Recommended Filter type: Filter type ABEK

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 vapours/aerosols 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**

# Information on basic physical and chemical properties

a) Appearance Form: liquid

Color: light yellow

No data available b) Odor

c) Odor Threshold No data available

d) pH ca.4.1 at 42 q/l

No data available

e) Melting point/freezing point

No data available Initial boiling point

and boiling range

g) Flash point ()Not applicable

h) Evaporation rate No data available

Flammability (solid, No data available

gas)

Upper/lower No data available j)

> flammability or explosive limits

k) Vapor pressure No data available

Vapor density No data available

No data available m) Density



Relative density No data available

n) Water solubility soluble

o) Partition coefficient: No data available

n-octanol/water

p) Autoignition Not applicable

temperature

q) Decomposition No data available

temperature

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

No data available

# 10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

# 10.3 Possibility of hazardous reactions

No data available

# 10.4 Conditions to avoid

no information available

### 10.5 Incompatible materials

Strong acids and oxidizing agents

# 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

Acute toxicity estimate Oral - 3,850 mg/kg

(Calculation method)

Acute toxicity estimate Inhalation - 4 h - 13.13 mg/l - dust/mist(Calculation method)

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Acute toxicity estimate Dermal - > 5,000 mg/kg (Calculation method)

#### Skin corrosion/irritation

No data available

### Serious eye damage/eye irritation

No data available

# Respiratory or skin sensitization

No data available

# Germ cell mutagenicity

No data available

# Carcinogenicity

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.

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

on OSHA's list of regulated carcinogens.

# **Reproductive toxicity**

No data available

# 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

May cause irritation to eyes and respitatory passages to workers briefly exposed to high concentrations

Hazardous properties cannot be excluded but are unlikely when the product is handled appropriately.

#### 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

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

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

# **SECTION 12: Ecological information**

### 12.1 Toxicity

#### **Mixture**

No data available

# 12.2 Persistence and degradability

No data available

### 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

### **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

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

fish(Chronic toxicity) mg/l - 34 d

(OECD Test Guideline 210)

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

and other aquatic mg/l - 21 d

invertebrates(Chronic (OECD Test Guideline 211)

toxicity)

# **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)

Not dangerous goods

#### **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**

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

# **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 TPO.

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).

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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 >= 30 - < 50 %

hydrogensulphite

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

sodium 7631-90-5 >= 30 - < 50 %

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**

water	7732-18-5
sodium hydrogensulphite	7631-90-5

# Pennsylvania Right To Know

sodium hydrogensulphite 7631-90-5

# **Maine Chemicals of High Concern**

water 7732-18-5

# **Vermont Chemicals of High Concern**

water 7732-18-5

**Washington Chemicals of High Concern** 

water 7732-18-5

# 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

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