

Sodium Metabisulfite

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 02/23/2015

SECTION 1: Identification of the substance/mixture

1.1. Product identifier

Product form : Substance

Substance name : Sodium Metabisulfite

Formula : $Na_2S_2O_5$

Molecular weight : 190.11 g/mol

CAS No. : 7681-57-4

Product code : LW-NA2S2O5

Synonyms : Sodium pyrosulfite, Sodium disulfite

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

Use of the substance/mixture : Laboratory chemicals, Manufacture of substances

1.3. Emergency telephone number

Emergency number : 1.800.424.9300 (USA)

+1.703.527.3887 (INT)

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

Serious eye damage (Category 1), H318

Acute aquatic toxicity (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

Pictogram :

Signal word : Danger

Hazard statement(s)

H302 : Harmful if swallowed.

H318 : Causes serious eye damage.

H402 : Harmful to aquatic life.

Precautionary statement(s)

P264 : Wash skin thoroughly after handling.

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

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P273 : Avoid release to the environment.

P280 : Wear eye protection/ face protection.

P301 + P312 + P330 : IF SWALLOWED: Call a POISON CENTER or doctor/ physician if

you feel unwell. Rinse mouth.

P305 + P351 + P338 + P310 : IF IN EYES: Rinse cautiously with water for several minutes.

Remove

Sigma-Aldrich - 31448 Page 2 of 8 contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER

or doctor/ physician.

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

Hazardous components

Component	Classification	Concentration
Sodium metabisulfite	Acute Tox. 4; Eye Dam. 1;	<= 100 %
	Aquatic Acute 3; H302, H318,	
	H402	

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

SECTION 4: Description of first aid measures

4.1. Description of first aid measures

General advice : Consult a physician. Show this safety data sheet to the doctor in

attendance. Move out of dangerous area.

First-aid measures after inhalation : If breathed in, move person into fresh air. If not breathing, give

artificial respiration. Consult a physician.

First-aid measures after skin contact : Wash off with soap and plenty of water. Consult a physician.

First-aid measures after eye contact : Rinse thoroughly with plenty of water for at least 15 minutes

and consult a physician.

First-aid measures after ingestion : Never give anything by mouth to an unconscious person. Rinse

mouth with water. Consult a physician.

4.2. Most important symptoms and effects, both acute and delayed

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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

Dry powder

5.2. Special hazards arising from the substance or mixture

No data available

5.3. Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4. More Information

No data available

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

Evacuate personnel to safe areas. Avoid breathing dust.

For personal protection see section 8.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3. Methods and material for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Do not flush with water. Keep in suitable, closed containers for disposal.

6.4. Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.

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Provide appropriate exhaust ventilation at places where dust is formed.

For precautions see section 2.2.

7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

Never allow product to get in contact with water during storage. Do not store near acids.

Air and moisture sensitive. Keep in a dry place.

Storage class (TRGS 510): 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

Component	CAS-No.	Value	Control Parameters	Basis
Sodium	7681-57-4	STEL	5.000000	USA. ACGIH Threshold Limit Values
metabisulfite			mg/m3	(TLV)
	Remarks	Upper Respiratory Tract irritation		
		Not classifiable as a human carcinogen		
		TWA	5.000000	USA. NIOSH Recommended
			mg/m3	Exposure Limits
		TWA	5.000000	USA. ACGIH Threshold Limit Values
			mg/m3	(TLV)
		Upper Respiratory Tract irritation		
		Not classifiable as a human carcinogen		

8.2. Exposure controls

Appropriate engineering controls : Handle in accordance with good industrial hygiene and safety

practice. Wash hands before breaks and at the end of workday.

8.3. Personal protective equipment

Eye protection : Face shield and safety glasses Use equipment for eye protection

tested and approved under appropriate government standards

such as NIOSH (US) or EN 166(EU).

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.

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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) 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 CE 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.

Body protection : Complete suit protecting against chemicals, The type of

protective equipment must be selected according to the concentration and amount of the dangerous substance at the

specific workplace.

Respiratory protection : Where risk assessment shows air-purifying respirators are

appropriate use a full-face particle respirator type

N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators

and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Environmental exposure controls

: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be

avoided.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

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Appearance : Form: powder

Color: white

Odor : pungent

Odor Threshold : No data available

pH : 4.5 at 50 g/l at 20 °C (68 °F)

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

Initial boiling point and boiling range : No data available
Flash point : No data available
Evaporation rate : No data available
Flammability (solid, gas) : No data available
Upper/lower flammability or : No data available

explosive limits

Vapor pressure : No data available
Vapor density : No data available
Relative density : 1.480 g/cm3

Water solubility : 650 g/l at 20 °C (68 °F)

Partition coefficient: n-octanol/water : log Pow: -3.699 at 25 °C (77 °F)

Auto-ignition temperature : No data available
Decomposition temperature : No data available
Viscosity : No data available
Explosive properties : No data available
Oxidizing properties : No data available

9.2. Other safety information

Bulk density : 1,100 - 1,200 kg/m3

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

Exposure to moisture

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

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Exposure to air. Heat.

10.5. Incompatible materials

Strong acids, Strong oxidizing agents

10.6. Hazardous decomposition products

Other decomposition products - No data available

In the event of fire: see section 5

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : LD50 Oral - Rat - 1,540 mg/kg

(OECD Test Guideline 401) Inhalation: No data available

LD50 Dermal - Rat - > 2,000 mg/kg

No data available

Skin corrosion/irritation : No data available

Serious eye damage/irritation : Eyes - Rabbit

Result: Risk of serious damage to eyes.

(OECD Test Guideline 405)

Respiratory or skin sensitization : Prolonged or repeated exposure may cause allergic reactions in

certain sensitive individuals.

Germ cell mutagenicity : No data available

Carcinogenicity

IARC: : 3 - Group 3: Not classifiable as to its carcinogenicity to humans

(Sodium metabisulfite)

NTP: : No component 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 identified as a carcinogen or potential

carcinogen by OSHA.

Reproductive toxicity : No data available

Specific target organ toxicity (single

exposure)

No data available

Specific target organ toxicity

: No data available

(repeated exposure)

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Aspiration hazard : No data available
Additional Information : RTECS: UX8225000

Symptoms of exposure may include burning sensation, coughing,

wheezing, laryngitis, shortness of breath, headache,

nausea, and vomiting., chest pain, Difficulty in breathing, Gastrointestinal discomfort, Vomiting, Diarrhea, Persons with allergies and/or asthma may exhibit hypersensitivity to

sulfites., To the best of our knowledge, the chemical,

Physical, and toxicological properties have not been thoroughly

investigated.

SECTION 12: Ecological information

12.1. Toxicity

Toxicity to fish : LC50 - Oncorhynchus mykiss (rainbow trout) - 150 - 220 mg/l - 96

h

Toxicity to daphnia and other aquatic

invertebrates

: EC50 - Daphnia magna (Water flea) - 89 mg/l - 24 h

Toxicity to algae : IC50 - Desmodesmus subspicatus (green algae) - 48 mg/l - 72 h

Toxicity to bacteria : - Pseudomonas putida - 56 mg/l - 17 h

12.2. Persistence and degradability

12.3. Mobility in soil

: No data available: No data available

12.4. Results of PBT and vPvB

assessment

: PBT/vPvB assessment not available as chemical safety

assessment not required/not conducted

12.6. Other adverse effects : An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Harmful to aquatic life.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product : Offer surplus and non-recyclable solutions to a licensed disposal

company. Contact a licensed professional waste disposal service

to dispose of this material.

Contaminated Packaging : Dispose of as unused product.

SECTION 14: Transport information

DOT (US)

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Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

SECTION 15: Regulatory information

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

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.

SARA 311/312 Hazards

Acute Health Hazard

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

Sodium metabisulfite CAS-No. Revision Date

7681-57-4 2007-03-01

New Jersey Right To Know Components

Sodium metabisulfite CAS-No. Revision Date

7681-57-4 2007-03-01

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox. : Acute toxicity

Aquatic Acute : Acute aquatic toxicity
Eye Dam. : Serious eye damage
H302 : Harmful if swallowed.

H318 : Causes serious eye damage.

H402 : Harmful to aquatic life.

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HMIS Rating

Health Hazard : 2

Chronic Health Hazard :

Flammability : 0

Physical Hazard : 0

NFPA Rating

Health hazard : 2
Fire Hazard : 0
Reactivity Hazard : 0

Further Information

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