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Material Safety Data Sheet

Version 4.3 Revision Date 01/17/2012 Print Date 03/16/2012

1. PRODUCT AND COMPANY IDENTIFICATION

Product name

: Sodium metabisulfite

Product Number

255556 : Sigma-Aldrich

Brand Supplier

Sigma-Aldrich 3050 Spruce Street

SAINT LOUIS MO 63103

USA

Telephone

+1 800-325-5832 +1 800-325-5052

Emergency Phone # (For

(314) 776-6555

both supplier and

manufacturer) Preparation Information

Sigma-Aldrich Corporation

Product Safety - Americas Region

1-800-521-8956

2. HAZARDS IDENTIFICATION

Emergency Overview

OSHA Hazards

Harmful by ingestion., Irritant

GHS Classification

Acute toxicity, Oral (Category 4) Acute toxicity, Dermal (Category 5) Serious eye damage (Category 1) Acute aquatic toxicity (Category 3)

GHS Label elements, including precautionary statements

Pictogram

Signal word

Hazard statement(s)

Harmful if swallowed. H302

H313 May be harmful in contact with skin. H318 Causes serious eye damage. H402 Harmful to aquatic life.

Precautionary statement(s)

P280

Wear protective gloves/ eye protection/ face protection.

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

HMIS Classification

Health hazard: 2 Flammability: 0 Physical hazards: 0

NFPA Rating

00000932

2 Health hazard:

Reactivity Hazard: Potential Health Effects

Inhalation

Fire:

May be harmful if inhaled. Causes respiratory tract irritation. Harmful if absorbed through skin. Causes skin irritation.

Skin Eyes Ingestion Causes eve irritation.

Harmful if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms

Formula

: Sodium disulfite Sodium pyrosulfite

0

Molecular Weight

: Na₂O₅S₂ : 190.11 a/mol

Component	minute 1995 dainte notes de la contraction de la	Concentration	
Sodium metabisulphit	e		
CAS-No.	7681-57-4	(a=1)	
EC-No.	231-673-0	The state of the s	
Index-No.	016-063-00-2		

4. FIRST AID MEASURES

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIREFIGHTING MEASURES

Conditions of flammability

Not flammable or combustible.

Suitable extinguishing media

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

Special protective equipment for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

Hazardous combustion products

Hazardous decomposition products formed under fire conditions. Sulphur oxides, Sodium oxides

Further information

The product itself does not burn.

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6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Sigma-Aldrich - 255556

Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

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.

Methods and materials 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.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed.

Conditions for safe storage

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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value	Control parameters	Basis	
Sodium metabisulphite	7681-57-4	STEL	5 mg/m3	USA. ACGIH Threshold Limit Values (TLV)	
Remarks	Upper Respiratory Tract irritation Not classifiable as a human carcinogen				
		TWA	5 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000	
		TWA	5 mg/m3	USA. NiOSH Recommended Exposure Limits	

Personal protective equipment

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).

Hand 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.

Eve 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 and 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.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form powder

Sigma-Aldrich - 255556 Delivery 0841248784-000020 Purchase Order 88269 Colour

Safety data

pH 4.5 at 50 g/l at 20 ℃ (68 °F)

colourless

Melting

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

point/freezing point

Boiling point no data available Flash point no data available Ignition temperature no data available

Autoignition temperature no data available

Lower explosion limit no data available Upper explosion limit no data available

Vapour pressure

no data available 1.480 g/cm3

Water solubility

650 g/l at 20 ℃ (68 ℉)

Partition coefficient:

log Pow: -3.7 at 25 ℃ (77 %)

n-octanol/water

Relative vapour

no data available

density

Density

Odour pungent

Odour Threshold Evaporation rate

no data available

10. STABILITY AND REACTIVITY

Chemical stability

Exposure to moisture. Stable under recommended storage conditions.

Possibility of hazardous reactions

no data available

Conditions to avoid Exposure to air. Heat.

Materials to avoid

Strong acids, Strong oxidizing agents

Hazardous decomposition products

Other decomposition products - no data available

Hazardous decomposition products formed under fire conditions. - Sulphur oxides, Sodium oxides

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Oral LD50

LD50 Oral - rat - 1,540 mg/kg

Inhalation LC50 no data available

Dermal LD50

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

Other Information on acute toxicity

no data available

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Skin corrosion/irritation

no data available

Serious eve damage/eye irritation

Eyes - rabbit - 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 metabisulphite)

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.

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

OSHA:

Teratogenicity

no data available

Specific target organ toxicity - single exposure (Globally Harmonized System)

no data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System)

no data available

Aspiration hazard

no data available

Potential health effects

Inhalation May be harmful if inhaled. Causes respiratory tract irritation.

Ingestion Harmful if swallowed.

Skin Harmful if absorbed through skin. Causes skin irritation.

Eyes Causes eye irritation.

Signs and Symptoms of Exposure

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, Diarrhoea, 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.

Synergistic effects

no data available

Additional Information

RTECS: UX8225000

12. ECOLOGICAL INFORMATION

Toxicity

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

Toxicity to daphnla EC50 - Daphnla magna (Water flea) - 89 mg/l - 24 h

and other aquatic

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Toxicity to algae

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

Toxicity to bacteria

- Pseudomonas putida - 56 mg/l - 17 h

Persistence and degradability

no data available

Bloaccumulative potential

no data available

Mobility in soil

no data available

PBT and vPvB assessment

no data available

Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Harmful to aquatic life.

no data available

13. DISPOSAL CONSIDERATIONS

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.

14. TRANSPORT INFORMATION

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

15. REGULATORY INFORMATION

OSHA Hazards

Harmful by ingestion., Irritant

SARA 302 Components

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

SARA 313 Components

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.

SARA 311/312 Hazards

Acute Health Hazard

Massachusetts Right To Know Components

Sodium metablsulphite	CAS-No. 7681-57-4	Revision Date 2007-03-01
Pennsylvania Right To Know Components	CAS-No.	Revision Date
Sodium metabisulphite	7681-57-4	2007-03-01

New Jersey Right To Know Components

CAS-No.

Revision Date

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Sodium metabisulphite

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.

16. OTHER INFORMATION

Further information

Further Information
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