



SAFETY DATA SHEET
SODIUM METABISULPHITE 97-100.5% BP

Page: 1
Compilation date: 28/06/2016
Revision No: 1

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

1.1. Product identifier

Product name: SODIUM METABISULPHITE 97-100.5% BP
CAS number: 7681-57-4
EINECS number: 231-673-0
Index number: 016-063-00-2
Product code: GPC7107
Synonyms: SODIUM DISULPHITE
SODIUM PYROSULPHITE

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

Use of substance / mixture: Laboratory chemicals. Manufacture of substances.

1.3. Details of the supplier of the safety data sheet

Company name: Atom Scientific Ltd
Unit 2B East Tame Business Park
Rexcine Way
Hyde
Cheshire
SK14 4GX
United Kingdom
Tel: +44 161 366 5123
Fax: +44 170 433 7167
Email: technical@atomscientific.com

1.4. Emergency telephone number

Emergency tel: +44 161 366 5123
(office hours only)

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: Acute Tox. 4: H302; Eye Dam. 1: H318; -: EUH031

Most important adverse effects: Harmful if swallowed. Causes serious eye damage. Contact with acids liberates toxic gas.

2.2. Label elements

Label elements under CLP:

Hazard statements: H302: Harmful if swallowed.
H318: Causes serious eye damage.
EUH031: Contact with acids liberates toxic gas.

[cont...]

SAFETY DATA SHEET
SODIUM METABISULPHITE 97-100.5% BP

Page: 2

Signal words: Danger

Hazard pictograms: GHS05: Corrosion

GHS07: Exclamation mark



Precautionary statements: P280: Wear protective gloves/protective clothing/eye protection/face protection.

P301+312: IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.

P330: Rinse mouth.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310: Immediately call a POISON CENTER or doctor.

2.3. Other hazards

Other hazards: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.1. Substances

Chemical identity: SODIUM METABISULPHITE 97-100.5% BP

CAS number: 7681-57-4

EINECS number: 231-673-0

Contains: Molecular Formula: Na₂O₅S₂

Molecular Weight: 190.11 g/mol

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice.

Ingestion: Never give anything by mouth to an unconscious person. Wash out mouth with water. Do not induce vomiting. Consult a doctor.

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

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

Skin contact: May be harmful if absorbed through the skin. There may be irritation and redness at the site of contact. An itchy rash may occur at the site of contact.

[cont...]

SAFETY DATA SHEET

SODIUM METABISULPHITE 97-100.5% BP

Page: 3

Eye contact: There may be irritation and pain. The eyes may water profusely. The vision may become blurred.

Ingestion: May be harmful if swallowed. There may be soreness and redness of the mouth and throat. There may be difficulty swallowing. Nausea and stomach pain may occur. There may be vomiting.

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation. There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing. May cause drowsiness and dizziness.

Delayed / immediate effects: Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, vomiting, chest pain. Difficulty in breathing. Gastrointestinal discomfort. Vomiting, diarrhoea. Persons with allergies and/or asthma may exhibit hypersensitivity to sulphites. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

4.3. Indication of any immediate medical attention and special treatment needed

Immediate / special treatment: Show this safety data sheet to the doctor in attendance. Eye bathing equipment should be available on the premises.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Dry chemical powder.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: No data available.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Wear suitable respiratory protection if necessary. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. Refer to section 8 of SDS for personal protection details.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

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

[cont...]

SAFETY DATA SHEET
SODIUM METABISULPHITE 97-100.5% BP

6.4. Reference to other sections

Reference to other sections: For personal protection, see section 8. For waste disposal, see section 13.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Avoid contact with skin and eyes. Avoid formation of dust and aerosols. 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

Storage conditions: Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Never allow the product to get in contact with water during storage. Do not store near acids.

7.3. Specific end use(s)

Specific end use(s): No other specific uses stipulated other than the uses mentioned in section 1.2.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits:

Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	5 mg/m ³	-	-	-

8.1. DNEL/PNEC Values

DNEL / PNEC No data available.

8.2. Exposure controls

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

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 application laws and good laboratory practises. Wash and dry hands. Full contact - Material: Nitrile rubber. Minimum layer thickness: 0.11mm. Break through time: 8 hrs. Splash contact - Material: Nitrile

SAFETY DATA SHEET

SODIUM METABISULPHITE 97-100.5% BP

Page: 5

rubber. Minimum layer thickness: 0.11mm. Break through time: 8hrs. If used in solution, or mixed with substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves.

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: 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.

Environmental: 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

State: Powder

Colour: Colourless

Odour: Pungent

Solubility in water: Soluble

Melting point/range °C: > 300C

Part.coeff. n-octanol/water: log Pow: -3.7 @ 25C

Relative density: 1.480

pH: 4.5 @ 50 g/l @ 20C

9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Exposure to moisture. Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

10.4. Conditions to avoid

Conditions to avoid: Air. Heat.

10.5. Incompatible materials

Materials to avoid: Strong acids. Strong oxidising agents.

10.6. Hazardous decomposition products

Haz. decomp. products: Other decomposition products - no data available. In the event of fire: see section 5

[cont...]

SAFETY DATA SHEET
SODIUM METABISULPHITE 97-100.5% BP

Page: 6

Section 11: Toxicological information

11.1. Information on toxicological effects

Toxicity values:

Route	Species	Test	Value	Units
ORAL	RAT	LD50	1,540	mg/kg
DERMAL	RAT	LD50	> 2,000	mg/kg

Relevant hazards for substance:

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	ING	Based on test data
Serious eye damage/irritation	OPT	Based on test data

Symptoms / routes of exposure

Skin contact: May be harmful if absorbed through the skin. There may be irritation and redness at the site of contact. An itchy rash may occur at the site of contact.

Eye contact: There may be irritation and pain. The eyes may water profusely. The vision may become blurred.

Ingestion: May be harmful if swallowed. There may be soreness and redness of the mouth and throat. There may be difficulty swallowing. Nausea and stomach pain may occur. There may be vomiting.

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation. There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing. May cause drowsiness and dizziness.

Delayed / immediate effects: Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, vomiting, chest pain. Difficulty in breathing. Gastrointestinal discomfort. Vomiting, diarrhoea. Persons with allergies and/or asthma may exhibit hypersensitivity to sulphites. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values:

Species	Test	Value	Units
Oncorhynchus mykiss (Rainbow Trout)	96H LC50	150-220	mg/l
Daphnia magna (Water Flea)	24H EC50	89	mg/l
Desmodesmus subspicatus (Green Algae)	72H IC50	48	mg/l

[cont...]

SAFETY DATA SHEET
SODIUM METABISULPHITE 97-100.5% BP

Page: 7

Pseudomonas putida	17H	56	mg/l
--------------------	-----	----	------

12.2. Persistence and degradability

Persistence and degradability: No data available.

12.3. Bioaccumulative potential

Bioaccumulative potential: No data available.

12.4. Mobility in soil

Mobility: Soluble in water.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: Harmful to aquatic organisms.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Disposal of packaging: Dispose of as unused product.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

Transport class: This product does not require a classification for transport.

Section 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Specific regulations: This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2. Chemical Safety Assessment

Chemical safety assessment: For this product a chemical safety assessment was not carried out.

Section 16: Other information

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and 3: EUH031: Contact with acids liberates toxic gas.

[cont...]

SAFETY DATA SHEET

SODIUM METABISULPHITE 97-100.5% BP

Page: 8

H302: Harmful if swallowed.

H318: Causes serious eye damage.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.