



SAFETY DATA SHEET

99.0%

SODIUM METABISULPHITE

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. PRODUCT IDENTIFIER

Product name:	Sodium Metabisulphite
Product No.:	SOME
CAS-No.:	7681-57-4
REACH:	01-2119531326-45
EC No.:	231-673-0
Synonym:	Sodium metabisulfite, Sodium pyrosulphate, Disodium disulphite, Pyrosulphurous acid, Disodium salt
Chemical Formula:	$\text{Na}_2\text{S}_2\text{O}_5$

1.2. RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

Recommended use: Water treatment for removal of Chloramines;
Cleaning and disinfecting desalination systems and reverse osmosis membranes;
Removal of tree stumps by degradation of lignin;
For use in the photographic industry;
As a reducing agent in the extraction of gold from aqua regia;
As a food preservative;
In the pharmaceutical manufacture;
Laboratory and other chemical process applications.

1.3. DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

HD Chemicals LTD
UNIT 9 Scott Business Park
PL2 2PB Plymouth UK

Contact Person responsible for SDS: Mr Peter Konefal, e-mail: contact@hdchemicals.co.uk



SECTION 2: HAZARDS IDENTIFICATION

2.1. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Classification 67/548/EEC:	Xn; R22, Xi; R31, R41
Classification – EC 1272/2008:	Acute toxicity, Oral; Category 4 (H302) Serious eye damage; Category 1 (H318) EUH031

2.2. LABEL ELEMENTS



SIGNAL WORDS

Danger

RISK PHRASES

R22	Harmful if swallowed
R31	Contact with acids liberates toxic gas
R41	Risk of serious damage to eye

HAZARD PHRASES

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

PROTECTION PHRASES

P264	Wash exposed skin thoroughly after handling
P280	Wear protective gloves/protective clothing/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
P310	Immediately call a doctor/ physician
P330	Rinse mouth

SAFETY PHRASES

S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S39	Wear eye/face protection
S46	If swallowed, seek medical advice immediately and show this container or label

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**67/548/EEC/1999/45/EC****Composition information – main constituents**

Substance name	Mol. Formula	REACH	Typical conc. (%w/w)	EINECS No.	CAS-No.	Classification
Sodium Metabisulphite	Na ₂ S ₂ O ₅	01-2119531326-45	99.0%	231-673-0	7681-57-4	Xn; R22, Xi; R31, R41

EC 1272/2008**Composition information – main constituents**

Substance name	Mol. Formula	REACH	Typical conc. (%w/w)	EINECS No.	CAS-No.	Classification
Sodium Metabisulphite	Na ₂ S ₂ O ₅	01-2119531326-45	99.0%	231-673-0	7681-57-4	H302, H318, EUH031

SECTION 4: FIRST AID MEASURES**4.1. DESCRIPTION OF FIRST AID MEASURES**

First-aid measures general: Consult a physician. Show this safety data sheet to the doctor in attendance.



Inhalation:	Harmful by inhalation. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Obtain medical attention.
Ingestion:	DO NOT INDUCE VOMITING. If swallowed, seek medical advice immediately and show this container or label. Wash out mouth with water and drink half a litre of water immediately.
Skin contact:	May cause irritation to skin. May cause dermatitis. Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.
Eye contact:	May cause irritation to eyes. Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention.

4.2. MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Inhalation:	Harmful by inhalation. Absorption through the lungs can occur causing symptoms similar to those of ingestion.
Ingestion:	Harmful if swallowed. May causes vomiting.
Skin contact:	May cause irritation and dermatitis to skin.
Eye contact:	Very hazardous in case of eye contact (irritant). Inflammation of the eye is characterized by redness, watering and itching.

4.3. INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1. EXTINGUISHING MEDIA

Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water spray, carbon dioxide (CO₂), dry chemical powder, fog or foam.

Unsuitable extinguishing media: Do not use water jet.

5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

In case of fire hazardous decomposition products may be produced such as: sulphur oxides.



5.3. ADVICE FOR FIRE-FIGHTERS

Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or positive-pressure mode. Wear appropriate clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Wear suitable protective equipment. Splash goggles, protective suit, boots and gloves to prevent any contamination of skin, eyes and personal clothing. Select appropriate protective clothing for the size of the spillage. Ensure adequate ventilation of the working area. Avoid contact with skin and eyes. Avoid formation of dust. Do not breathe dust.

6.2. ENVIRONMENTAL PRECAUTIONS

Should not be released into the environment. Keep away from drains, surface and ground water. Prevent further leakage or spillage if safe to do so.

6.3. METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Sweep up and shovel. Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

7.1. PRECAUTIONS FOR SAFE HANDLING

Keep away from heat. Keep away from sources of ignition. Empty containers may still contain significant residual amounts of the product. Ground all equipment containing material. Do not ingest. Do not breathe dust. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents, acids.

7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Store in a cool place. Keep container tightly closed in a dry and well-ventilated place. Do not store near acids.

7.3. SPECIFIC END USE(S)

See section 1.2.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1. CONTROL PARAMETERS/EXPOSURE GUIDELINES**

Occupational Exposure Limit Values (Sodium Metabisulphite) GB:

CAS NO	Exposure limit	Value	Name of Agent
7681-57-4	TWA – 8 Hrs	5 mg/m ³	disodium disulphite
7681-57-4	STEL – 15 Min	N/A	disodium disulphite

Engineering controls: Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location. Wash hands before breaks and at the end of the working day.

Protective equipment: Wear appropriate protective goggles, gloves and clothing to prevent skin and eyes exposure.



PROTECTION WEAR



HAND PROTECTION



RESPIRATOR



EYE PROTECTION



DUST MASK

Respiratory equipment: When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained properly.



Skin and body protection: Wear protective gloves and clothing. Chemical protection gloves are suitable, which are tested according to EN 374. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Eye/Face protection: Use safety goggles with side protection.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Solid
Colour:	White
Odour:	Pungent
Initial boiling point (°C):	Not available
Melting point (°C):	150 °C
Freezing point:	No data available
Relative density:	1.48 g/cm ³
Specific gravity / density:	Not available
Vapour density:	Not available
Vapour pressure:	Not available
Flash point (°C):	Not applicable
Molecular mass:	190.11 g/mol
Auto-ignition temperature:	Not applicable
Oxidizing properties:	Not applicable
Decomposition temperature:	Not available
Molecular formula:	Na ₂ S ₂ O ₅

SECTION 10: STABILITY AND REACTIVITY

10.1. REACTIVITY

Sodium Metabisulphite is not reactive under normal ambient conditions.

10.2. CHEMICAL STABILITY

Stable under normal temperature conditions. Decomposition starting about 150°C with sulphur dioxide release.



10.3. POSSIBILITY OF HAZARDOUS REACTIONS

Contact with acids liberates toxic gas.

10.4. CONDITIONS TO AVOID

Avoid humid conditions, heat, air, dust generation.

10.5. INCOMPATIBLE MATERIALS

Avoid strong acids, oxidising agents, nitrites, nitrates, sulphides.

10.6. HAZARDOUS DECOMPOSITION

In case of fire hazardous decomposition products may be produced such as: sulphur oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. INFORMATION ON TOXICOLOGICAL EFFECTS

TOXIC DOSE **LD50 Oral – Rat – 1310 mg/kg**
LD50 Dermal – Rat – > 2 g/kg

Inhalation: Harmful by inhalation. Absorption through the lungs can occur causing symptoms similar to those of ingestion.

Ingestion: Harmful if swallowed. May causes vomiting.

Skin contact: May cause irritation and dermatitis to skin.

Eye contact: Very hazardous in case of eye contact (irritant). Inflammation of the eye is characterized by redness, watering and itching.

SECTION 12: ECOLOGICAL INFORMATION

12.1. TOXICITY

Aquatic Toxicity: LC50/96h: Fish, 150 to 220 mg/l
EC50/72h: Algae, 48 mg/l
EC50/48h: Daphnia, 89 mg/l

**12.2. PERSISTENCE AND DEGRADABILITY**

Readily biodegradable.

12.3. BIOACCUMULATIVE POTENTIAL

No bioaccumulation potential.

12.4. MOBILITY

The product is soluble in water.

12.5. RESULTS OF PBT AND vPvB ASSESSMENT

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

12.6. OTHER ADVERSE EFFECTS

Negligible ecotoxicity.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste disposal recommendations: Labels should not be removed from containers until they have been cleaned, empty containers may contain hazardous residues. Disposal together with normal waste is not allowed. Waste must be disposed of in accordance with federal, state and local environmental control regulations. Do not let product enter drains.

Uncleaned packaging: Disposal must be made according to official regulations.

SECTION 14: TRANSPORT INFORMATION**IMDG**

UN number	N/A
UN proper shipping name	N/A
Transport hazard class(es)	N/A
Packing group	N/A

ADR/RID

UN number	N/A
UN proper shipping name	N/A



Transport hazard class(es)	N/A
Packing group	N/A

IATA

UN number	N/A
UN proper shipping name	N/A
Transport hazard class(es)	N/A
Packing group	N/A

SECTION 15: REGULATORY INFORMATION**15.1. SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE****National regulations:**

Control of Pollution Act 1974.

Control of Pollution (Special Waste) Regulations 1980 (as amended).

Control of Substances Hazardous to Health Regulations 2002 (as amended).

Dangerous Substances (Notification & Marking of Sites) Regulations 1990 SI 304

Environmental Protection Act 1990. (As Amended)

Environmental Protection (Duty of Care) Regulations 1991. (As Amended)

The Chemicals (Hazard Information & Packaging) Regulations 2002. (As Amended)

The Carriage of Dangerous Goods (Classification Packaging & Labelling) & Use of Transportable Pressure Receptables Regulations 1996/2092. (As Amended)

The Carriage of Dangerous Goods by Road Regulations 1996/2095 (As Amended)

The Carriage of Dangerous Goods by Rail Regulations 1996/2089. (As Amended) Special Waste Regulations 1996. (As Amended)

CLP - Classification, Labelling and Packing Regulation [Regulation (EC) No. 1272/2008]

15.2 CHEMICAL SAFETY ASSESSMENT

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION**General information**

The information contained in this safety data sheet is provided in accordance with the requirements of the regulations. The product should not be used for purposes other than those shown in section 1



without first referring to the supplier and obtaining written handling instruction. As the specific conditions of use of the product are outside the suppliers control, the user is responsible for ensuring that the requirements of relevant legislation are complied with.

Revision Comments

This information is provided in a revised format to that previously produced.

Revision Date: 01/10/2018

Revision: 01

Safety Data Sheet Status Approved.

Date printed 01/10/2018

Signature Initials P.K.

DISCLAIMER:

If this product is re-distributed and re-formulated for sale, details of its hazards and recommended methods for safe handling must be passed to customers. Customers are urged to ensure that the product is entirely suitable for their own purpose. It is the customer's responsibility to ensure that a suitable and sufficient assessment of the risks created by a work activity using this product is undertaken before this product is used.

NOTE:

The information contained in this Safety Data Sheet does not constitute the users own assessment of workplace risk as required by other Health & Safety Legislation (e.g. the Health and Safety at Work Act,1974;the control of Substances Hazardous to Health Regulations,1988). The data given here is based on current knowledge and experience. The purpose of this data sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the product's properties.