SAFETY DATA SHEET
SODIUM METABISULPHITE AR

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

1.1. Product identifier
Product name SODIUM METABISULPHITE AR
Product number 2341
REACH registration number 01-2119531326-45-0000
CAS number 7681-57-4
EU index number 016-063-00-2
EC number 231-673-0

1.2. Relevant identified uses of the substance or mixture and uses advised against
Identified uses Laboratory reagent. Food additive Intermediate
Uses advised against No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet
Supplier Reagent Chemical Services
11b - 13 Aston Fields Road
Whitehouse Industrial Estate
Runcom
Cheshire WA7 3DL
T: 01928 716903 (08.30 - 17.00)
F: 01928 716425
E: info@reagent.co.uk

1.4. Emergency telephone number
Emergency telephone OHES Environmental Ltd 24-7
Tel. 0333 333 9939 (24 hour)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
Classification (EC 1272/2008)
Physical hazards Not Classified
Health hazards Eye Dam. 1 - H318 Acute Tox. 4 - H302
Environmental hazards Not Classified

2.2. Label elements
EC number 231-673-0
SODIUM METABISULPHITE AR

Pictogram

Signal word Danger

Hazard statements

H302 Harmful if swallowed.
H318 Causes serious eye damage.

Precautionary statements

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 POISON CENTER/ doctor.
P501 Dispose of contents / container in accordance with local, regional, national, international regulations.

Supplementary precautionary statements

P264 Wash … thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P301+P312 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell.
P330 Rinse mouth.

2.3. Other hazards

This substance is not classified as PBT or vPvB according to current EU criteria.

SECTION 3: Composition/information on ingredients

3.1. Substances

Product name SODIUM METABISULPHITE AR

REACH registration number 01-2119531326-45-0000

EU index number 016-063-00-2

CAS number 7681-57-4

EC number 231-673-0

SECTION 4: First aid measures

4.1. Description of first aid measures

General information Get medical attention immediately. Show this Safety Data Sheet to the medical personnel.

Inhalation Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. In case of severe exposure or if any discomfort continues get medical attention.

Ingestion Rinse mouth thoroughly with water. Remove any dentures. Stop if the affected person feels sick as vomiting may be dangerous. Do not induce vomiting unless under the direction of medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Place unconscious person on their side in the recovery position and ensure breathing can take place. Maintain an open airway. Loosen tight clothing such as collar, tie or belt.

Skin contact Immediately remove contaminated clothing and wash before re-use. Wash skin thoroughly with soap and water. In serious cases or if discomfort continues after slight contact obtain medical attention.
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Eye contact
May cause permanent damage if eye is not immediately irrigated. Promptly wash eyes with plenty of water or eye wash solution while lifting the eyelids. If possible remove any contact lenses and continue to wash. Get medical attention immediately.

Protection of first aiders
First aid personnel should wear appropriate protective equipment during any rescue. Wash contaminated clothing thoroughly with water before removing it from the affected person, or wear gloves. It may be dangerous for first aid personnel to carry out mouth-to-mouth resuscitation.

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

General information
See Section 11 for additional information on health hazards. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation
Dust may irritate the respiratory system. Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases.

Ingestion
May cause discomfort if swallowed. Stomach pain. Nausea, vomiting.

Skin contact
May cause irritation. Prolonged contact may cause dryness of the skin.

Eye contact
Causes serious eye damage. Symptoms following overexposure may include the following: Pain. Profuse watering of the eyes. Redness.

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

Notes for the doctor
Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media
The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.

Unsuitable extinguishing media
Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards
In cases of fire, toxic fumes may be formed. Sulphurous gases (SOx).

Hazardous combustion products
Thermal decomposition or combustion products may include the following substances: Sulphurous gases (SOx).

5.3. Advice for firefighters

Protective actions during firefighting
Avoid breathing fire gases or vapours. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

Special protective equipment for firefighters
Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
SODIUM METABISULPHITE AR

**Personal precautions**
No action shall be taken without appropriate training or involving any personal risk. Keep unnecessary and unprotected personnel away from the spillage. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Wash thoroughly after dealing with a spillage. Ensure procedures and training for emergency decontamination and disposal are in place. Do not touch or walk into spilled material.

**6.2. Environmental precautions**
Environmental precautions
Avoid discharge into drains or watercourses or onto the ground. Avoid discharge to the aquatic environment. Large Spillages: Inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil or air).

**6.3. Methods and material for containment and cleaning up**
Methods for cleaning up
Avoid generation and spreading of dust. Small Spillages: Carefully remove with scoop or shovel if safe to do so and transfer to waste containers. Otherwise Mix with sand. Large Spillages: Contain and mix spillage with sand or earth before removing with spade or shovel and transferring to salvage containers. Seal containers securely and deliver for disposal according to local authority regulations. Wash spillage site well with water and detergent, be aware of the potential for surfaces to become slippery. Wash thoroughly after dealing with a spillage.

**6.4. Reference to other sections**
Reference to other sections
For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**
Usage precautions
Avoid inhalation of dust and contact with skin and eyes.

Advice on general occupational hygiene
Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Change work clothing daily before leaving workplace.

**7.2. Conditions for safe storage, including any incompatibilities**
Storage precautions
Store in closed original container at temperatures between 15°C and 25°C. Store away from direct sunlight and moisture. Store away from the following materials: Acids.

Storage class
Chemical storage.

**7.3. Specific end use(s)**
Specific end use(s)
The identified uses for this product are detailed in Section 1.2.

**SECTION 8: Exposure Controls/personal protection**

**8.1. Control parameters**

**Occupational exposure limits**
Long-term exposure limit (8-hour TWA): WEL 5 mg/m³
WEL = Workplace Exposure Limit

DNEL
Workers - Inhalation; Long term systemic effects: 225 mg/m³
General population - Inhalation; Long term systemic effects: 66 mg/m³
General population - Oral; Long term systemic effects: 8.6 mg/kg/day
SODIUM METABISULPHITE AR

PNEC
- Fresh water; 1 mg/l
- Marine water; 0.1 mg/l
- STP; 75.4 mg/l

8.2. Exposure controls

Protective equipment

Appropriate engineering controls
Provide adequate general and local exhaust ventilation. Work in fume cupboard.

Eye/face protection

Eye/face protection complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment for eye and face protection should comply with European Standard EN166. Wear tight-fitting, chemical splash goggles or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. To protect hands from chemicals, gloves should comply with European Standard EN374. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended. The selected gloves should have a breakthrough time of at least 8 hours. It is recommended that gloves are made of the following material: Butyl rubber. Chloroprene rubber. Nitrile rubber. Viton rubber (fluoro rubber). Thickness: ≥ 0.35 mm. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material.

Other skin and body protection

Wear suitable protective clothing and personal protective equipment to avoid skin contact with this substance. If there is a risk of splashing then wear a face shield. Provide eyewash station and safety shower.

Hygiene measures

Provide eyewash station and safety shower. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Clean equipment and the work area every day. Good personal hygiene procedures should be implemented. Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke. Preventive industrial medical examinations should be carried out. Warn cleaning personnel of any hazardous properties of the product.

Respiratory protection

Wear respirator and cartridge suitable for Hydrochloric acid and Sulphur Dioxide when dusts, vapours or aerosols are generated.

Environmental exposure controls

Keep container tightly sealed when not in use. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance

Crystals. Powder.

Colour

White.

Odour

Pungent.

pH

pH (diluted solution): 4-5 @ 1%
SODIUM METABISULPHITE AR

**Melting point**  
About 150 (Decomposition)°C

**Initial boiling point and range**  
No information available.

**Flash point**  
Not applicable.

**Flammability (solid, gas)**  
Not applicable.

**Upper/lower flammability or explosive limits**  
Not applicable.

**Vapour pressure**  
Not applicable.

**Relative density**  
2.36 @ 20°C

**Bulk density**  
1.1 - 1.2 kg/l

**Solubility(ies)**  
65 °C

**Partition coefficient**  
No information available.

**Auto-ignition temperature**  
Not applicable.

**Viscosity**  
No information available.

**Explosive properties**  
Not considered to be explosive.

**Oxidising properties**  
Does not meet the criteria for classification as oxidising.

**9.2. Other information**  
None.

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**  
Generates toxic gas in contact with acid.

**10.2. Chemical stability**  
Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.

**10.3. Possibility of hazardous reactions**  
Contact with acids liberates toxic gas. Contact with water liberates toxic gas.

**10.4. Conditions to avoid**

**10.5. Incompatible materials**  
Acids.

**10.6. Hazardous decomposition products**  
Does not decompose when used and stored as recommended.

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

**Acute toxicity - oral**  
1,420.0 mg/kg

**Species**  
Rat
SODIUM METABISULPHITE AR

Notes (oral LD₅₀)  
Acute Tox. 4 - H302 Harmful if swallowed.

ATE oral (mg/kg)  
1,420.0

Acute toxicity - dermal  
Notes (dermal LD₅₀)  
Based on available data the classification criteria are not met. LD₅₀ >2000 mg/kg, Dermal, Rat

Acute toxicity - inhalation  
Notes (inhalation LC₅₀)  
Based on available data the classification criteria are not met. LC50 >5.5 mg/l, Inhalation, Rat

Skin corrosion/irritation  
Animal data  
Based on available data the classification criteria are not met.

Serious eye damage/irritation  
Serious eye damage/irritation  
Eye Dam. 1 - H318 Causes serious eye damage.

Respiratory sensitisation  
Respiratory sensitisation  
Based on available data the classification criteria are not met.

Skin sensitisation  
Skin sensitisation  
Based on available data the classification criteria are not met.

Germ cell mutagenicity  
Genotoxicity - in vitro  
Based on available data the classification criteria are not met.

Carcinogenicity  
Carcinogenicity  
Based on available data the classification criteria are not met.

IARC carcinogenicity  
None of the ingredients are listed or exempt.

Reproductive toxicity  
Reproductive toxicity - fertility  
Based on available data the classification criteria are not met.

Reproductive toxicity - development  
Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure  
STOT - single exposure  
Not classified as a specific target organ toxicant after a single exposure.

Specific target organ toxicity - repeated exposure  
STOT - repeated exposure  
Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard  
Aspiration hazard  
Not relevant. Solid.

General information  
Dust may irritate the eyes and the respiratory system. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation  
Irritation of mucous membranes and coughing

Ingestion  
May cause discomfort if swallowed. Stomach pain. Nausea, vomiting.

Skin contact  
May cause irritation. Prolonged contact may cause dryness of the skin.

Eye contact  
Severely irritating to eyes. Risk of serious damage to eyes.

Route of entry  
Ingestion Inhalation Skin and/or eye contact

Target organs  
No specific target organs known.

SECTION 12: Ecological Information
SODIUM METABISULPHITE AR

Ecotoxicity
Although not classified as environmentally hazardous, harmful effects cannot be excluded in the event of improper handling or disposal. Do not allow to enter drinking water, waste water or soil.

12.1. Toxicity
Toxicity
Based on available data the classification criteria are not met.

Acute toxicity - fish
LC₅₀, 96 hours: 177.8 mg/l, Onchorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates
EC₅₀, 48 hours: 89 mg/l, Daphnia magna

Acute toxicity - aquatic plants
EC₅₀, 72 hours: 43.8 mg/l, Desmodesmus subspicatus

Acute toxicity - microorganisms
EC₅₀, 3 hours: >1000 mg/l, Activated sludge

12.2. Persistence and degradability
Persistence and degradability
The product contains inorganic substances which are not biodegradable.

12.3. Bioaccumulative potential
Bioaccumulative potential
No data available on bioaccumulation.

Partition coefficient
No information available.

12.4. Mobility in soil
Mobility
The product is water-soluble and may spread in water systems.

Surface tension
< 60 mN/m @ 20°C

12.5. Results of PBT and vPvB assessment
Results of PBT and vPvB assessment
This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects
Other adverse effects
None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
General information
The generation of waste should be minimised or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.

Disposal methods
Do not empty into drains. Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents. Incineration or landfill should only be considered when recycling is not feasible.

SECTION 14: Transport information
SODIUM METABISULPHITE AR

General
The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number
Not applicable.

14.2. UN proper shipping name
Not applicable.

14.3. Transport hazard class(es)
Not classified. No transport warning sign required.

Transport labels
No transport warning sign required.

14.4. Packing group
Not applicable.

14.5. Environmental hazards
Environmentally hazardous substance/marine pollutant
No.

14.6. Special precautions for user
Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable.

SECTION 15: Regulatory information

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

National regulations
Health and Safety at Work etc. Act 1974 (as amended).
The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].
EH40/2005 Workplace exposure limits.

EU legislation

15.2. Chemical safety assessment
No chemical safety assessment has been carried out.

Inventories
EU - EINECS/ELINCS
None of the ingredients are listed or exempt.

SECTION 16: Other information
SODIUM METABISULPHITE AR

Abbreviations and acronyms used in the safety data sheet

- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
- ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
- RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.
- IATA: International Air Transport Association.
- CAS: Chemical Abstracts Service.
- ATE: Acute Toxicity Estimate.
- LC₅₀: Lethal Concentration to 50% of a test population.
- LD₅₀: Lethal Dose to 50% of a test population (Median Lethal Dose).
- EC₅₀: 50% of maximal Effective Concentration.
- PBT: Persistent, Bioaccumulative and Toxic substance.
- vPvB: Very Persistent and Very Bioaccumulative.

Classification abbreviations and acronyms

- Acute Tox. = Acute toxicity
- Eye Dam. = Serious eye damage

General information

Under REACH Material Safety Datasheets (MSDS) are referred to as Safety Datasheets (SDS).

Key literature references and sources for data


Classification procedures according to Regulation (EC) 1272/2008

- Acute Tox. 4 - H302: Harmful if swallowed.
- Eye Dam. 1 - H318: Causes serious eye damage.

Training advice

Only trained personnel should use this material.

Revision comments

General rewrite

Revision date

21/08/2018

Revision

4

Supersedes date

22/09/2017

SDS number

20561

SDS status

Approved.

Hazard statements in full

- H302 Harmful if swallowed.
- H318 Causes serious eye damage.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.