

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

SODIUM METABISULPHITE

Version 4.0

Print Date 2011/09/15

Revision Date 2011/09/15

MSDS code: MSMI300

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name : SODIUM METABISULPHITE
 Substance name : sodium metabisulphite
 Index-No. : 016-063-00-2
 CAS-No. : 7681-57-4
 EC-No. : 231-673-0
 Registration number : 01-2119531326-45-xxxx

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

Use of the Substance/Mixture : At this time we do not yet have information on identified uses. They will be included in this safety data sheet when available.

Recommended restrictions on use : At this time we do not yet have information on identified uses. They will be included in this safety data sheet when available.

1.3. Details of the supplier of the safety data sheet

Company : Brenntag UK & Ireland
 Albion House, Rawdon Park
 GB LS19 7XX Leeds Yeadon
 Telephone : 0113 3879 200
 Telefax : 0113 3879 280
 E-mail address : msds@brenntag.co.uk

1.4. Emergency telephone number

Emergency telephone number : Emergency only telephone number (open 24 hours):
 01865 407333 (N.C.E.C. Culham)

2. Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

REGULATION (EC) No 1272/2008			
Hazard class	Hazard category	Target Organs	Hazard statements
Acute toxicity	Category 4	---	H302

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Serious eye damage/eye irritation	Category 1	---	H318
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For the full text of the H-Statements mentioned in this Section, see Section 16.

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Directive 67/548/EEC or 1999/45/EC	
Hazard symbol / Category of danger	Risk phrases
Harmful (Xn)	R22
Irritant (Xi)	R41
	R31

For the full text of the R-phrases mentioned in this Section, see Section 16.

Most important adverse effects

Human Health : See section 11 for toxicological information.
 Physical and chemical hazards : See section 9 for physicochemical information.
 Potential environmental effects : See section 12 for environmental information.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard symbols :



Signal word : Danger

Hazard statements : H302 Harmful if swallowed.
 H318 Causes serious eye damage.

Precautionary statements

Prevention : P264 Wash skin thoroughly after handling.
 P280 Wear eye protection/ face protection.

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Response	:	P301 + P312 P330 P305 + P351 + P338 P310	IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.
Disposal	:	P501	Dispose of contents/ container to an approved waste disposal plant.

Additional Labelling:

EUH031 Contact with acids liberates toxic gas.

Hazardous components which must be listed on the label:

- sodium metabisulphite

2.3. Other hazards

For Results of PBT and vPvB assessment see section 12.5.

3. Composition/information on ingredients

3.1. Substances

Hazardous components	Amount [%]	Classification (REGULATION (EC) No 1272/2008)		Classification (67/548/EEC)
		Hazard class / Hazard category	Hazard statements	
sodium metabisulphite				
Index-No. : 016-063-00-2		Acute Tox.4	H302	Xn; R22
CAS-No. : 7681-57-4		Eye Dam.1	H318	Xi; R41
EC-No. : 231-673-0	<= 100			R31
Registration : 01-2119531326-45-xxxx				

For the full text of the R-phrases mentioned in this Section, see Section 16.

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

4. First aid measures

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4.1. Description of first aid measures

- | | |
|-------------------------|---|
| General advice | : Take off contaminated clothing and shoes immediately. Consult a physician. |
| If inhaled | : Remove to fresh air. Obtain medical attention. If unconscious place in recovery position and seek medical advice. |
| In case of skin contact | : Wash off immediately with soap and plenty of water. |
| In case of eye contact | : Rinse thoroughly with plenty of water, also under the eyelids. Consult a physician. |
| If swallowed | : Clean mouth with water and drink afterwards plenty of water. Call a physician immediately. |

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

- | | |
|----------|--|
| Symptoms | : See Section 11 for more detailed information on health effects and symptoms. |
| Effects | : See Section 11 for more detailed information on health effects and symptoms. |

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

- | | |
|-----------|-----------------------------|
| Treatment | : No information available. |
|-----------|-----------------------------|

5. Firefighting measures

5.1. Extinguishing media

- | | |
|--------------------------------|---|
| Suitable extinguishing media | : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. The product itself does not burn. |
| Unsuitable extinguishing media | : No information available. |

5.2. Special hazards arising from the substance or mixture

- | | |
|--------------------------------------|--|
| Specific hazards during firefighting | : In case of fire hazardous decomposition products may be produced such as: Sulphur oxides |
|--------------------------------------|--|

5.3. Advice for firefighters

- | | |
|---|--|
| Special protective equipment for firefighters | : In the event of fire, wear self-contained breathing apparatus. Wear appropriate body protection (full protective suit) |
| Further information | : Collect contaminated fire extinguishing water separately. This |

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must not be discharged into drains. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment. Keep people away from and upwind of spill/leak. Avoid dust formation. Provide adequate ventilation. Avoid contact with skin and eyes. For personal protection see section 8.

6.2. Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities. Avoid subsoil penetration. Local authorities should be advised if significant spillages cannot be contained.

6.3. Methods and materials for containment and cleaning up

Methods and materials for containment and cleaning up : Use mechanical handling equipment. This material and its container must be disposed of as hazardous waste.

Further information : Treat recovered material as described in the section "Disposal considerations".

6.4. Reference to other sections

See Section 1 for emergency contact information.
See Section 8 for information on personal protective equipment.
See Section 13 for waste treatment information.

7. Handling and storage

7.1. Precautions for safe handling

Advice on safe handling : Keep container tightly closed. Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed. Emergency eye wash fountains and emergency showers should be available in the immediate vicinity.

Hygiene measures : Do not breathe dust or spray mist. Avoid contact with the skin and the eyes. Take off all contaminated clothing immediately. Smoking, eating and drinking should be prohibited in the

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application area. Wash hands before breaks and at the end of workday.

7.2. Conditions for safe storage, including any incompatibilities

Advice on protection against fire and explosion : No special precautions required.

Further information on storage conditions : Keep tightly closed in a dry and cool place.

Advice on common storage : Incompatible with oxidizing agents. Do not store near acids.

German storage class : 10-13 German Storage Class 10 to 13

7.3. Specific end uses

Specific use(s) : No information available.

8. Exposure controls/personal protection

8.1. Control parameters

Derived No Effect Level (DNEL)

Workers, Inhalation : 225 mg/m³
Long-term exposition

Predicted No Effect Concentration (PNEC)

Fresh water : 1 mg/l

Marine water : 0.1 mg/l

Component: sodium metabisulphite

**CAS-No.
7681-57-4**

Other OELs

EH40 WEL, Time Weighted Average (TWA):
5 mg/m³

8.2. Exposure controls

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Personal protective equipment

Respiratory protection

Advice : Required if dust is released
Respirator with a dust filter
Particle filter:P2

Hand protection

Advice : Wear suitable gloves.
The following information applies to aqueous, saturated solutions.
Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
Protective gloves should be replaced at first signs of wear.

Material : polychloroprene
Break through time : ≥ 8 h
Glove thickness : 0.5 mm

Material : Nitrile rubber
Break through time : ≥ 8 h
Glove thickness : 0.35 mm

Material : butyl-rubber
Break through time : ≥ 8 h
Glove thickness : 0.5 mm

Eye protection

Advice : Tightly fitting safety goggles

Skin and body protection

Advice : Wear suitable protective clothing.

Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.
If the product contaminates rivers and lakes or drains inform respective authorities.
Avoid subsoil penetration.
Local authorities should be advised if significant spillages cannot be contained.

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9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	:	powder
Colour	:	white
Odour	:	slight stinging
Odour Threshold	:	Currently we do not have any Information from our supplier about this.
pH	:	3.5 - 5 (50 g/l; 20 °C)
Melting point/range	:	ca. 150 °C yes
Boiling point	:	not applicable
Flash point	:	not applicable
Evaporation rate	:	not applicable
Flammability (solid, gas)	:	not applicable
Upper explosion limit	:	not applicable
Lower explosion limit	:	not applicable
Vapour pressure	:	not applicable
Relative vapour density	:	not applicable
Density	:	2.36 g/cm ³ (20 °C)
Water solubility	:	470 g/l (20 °C)
Partition coefficient: n-octanol/water	:	log Kow -3.7 (25 °C) (OECD Test Guideline 107)
Ignition temperature	:	not applicable
Thermal decomposition	:	> 150 °C
Viscosity, kinematic	:	not applicable

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Explosivity : Product is not explosive.

Oxidizing properties : Currently we do not have any Information from our supplier about this.

9.2. Other information

Bulk density : 1,000 - 1,200 kg/m³

10. Stability and reactivity

10.1. Reactivity

Advice : Contact with acids liberates toxic gas.

10.2. Chemical stability

Advice : Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions : Incompatible with oxidizing agents.

10.4. Conditions to avoid

Conditions to avoid : Heat.
Thermal decomposition : > 150 °C

10.5. Incompatible materials

Materials to avoid : Acids, Oxidizing agents

10.6. Hazardous decomposition products

Hazardous decomposition products : Sulphur oxides

11. Toxicological information

11.1. Information on toxicological effects

Further information

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Other relevant toxicity information : Irritating to respiratory system.
Handle in accordance with good industrial hygiene and safety practice.

Experience with human exposure : May cause sensitization of susceptible persons by skin contact.

Component: sodium metabisulphite

**CAS-No.
7681-57-4**

Acute toxicity

Oral

LD50 : > 1540 mg/kg (rat)

Irritation

Skin

Result : No skin irritation (rabbit) (OECD Test Guideline 404)

Eyes

Result : Severe eye irritation (rabbit) (OECD Test Guideline 405)
Risk of serious damage to eyes.

Sensitisation

Result : not sensitizing (guinea pig)

12. Ecological information

12.1. Toxicity

Component: sodium metabisulphite

**CAS-No.
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Acute toxicity

Fish

LC50 : 150 - 220 mg/l (fish; 96 h)

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Toxicity to daphnia and other aquatic invertebrates.

EC50 : 89 mg/l (Daphnia; 48 h)

algae

EC50 : 48 mg/l (algae; 72 h)

Bacteria

EC50 : 56 mg/l (Bacteria; 17 h)

12.2. Persistence and degradability

Component: sodium metabisulphite

CAS-No.
7681-57-4

Persistence and degradability

Persistence

Result : no data available

Biodegradability

Result : The methods for determining biodegradability are not applicable to inorganic substances.

12.3. Bioaccumulative potential

Component: sodium metabisulphite

CAS-No.
7681-57-4

Bioaccumulation

Result : Does not bioaccumulate.

12.4. Mobility in soil

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Component: sodium metabisulphite

CAS-No.
7681-57-4

Mobility

: no data available

12.5. Results of PBT and vPvB assessment

Component: sodium metabisulphite

CAS-No.
7681-57-4

Results of PBT and vPvB assessment

Result : no data available

12.6. Other adverse effects

Additional ecological information

Result : Do not flush into surface water or sanitary sewer system.

Component: sodium metabisulphite

CAS-No.
7681-57-4

Chemical Oxygen Demand (COD)

Result : ca. 165 mg/g

13. Disposal considerations

13.1. Waste treatment methods

Product : Disposal together with normal waste is not allowed. Special disposal required according to local regulations. Do not let product enter drains.

Contaminated packaging : Empty remaining contents. Store containers and offer for recycling of material when in accordance with the local regulations. Dispose of as unused product.

European Waste : Waste codes should be assigned by the user based on the

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Catalogue Number

application for which the product was used.

14. Transport information

Not dangerous goods for ADR, RID and IMDG.

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

Not applicable.

14.4. Packaging group

Not applicable.

14.5. Environmental hazards

Not applicable.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

IMDG : Not applicable.

15. Regulatory information

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

Notification status

sodium metabisulphite:

Regulatory List	Notification	Notification number
AICS	YES	
DSL	YES	
INV (CN)	YES	

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ENCS (JP)	YES	(1)-502
ISHL (JP)	YES	(1)-502
EINECS	YES	231-673-0
KECI (KR)	YES	KE-12701
TSCA	YES	

15.2. Chemical Safety Assessment

Currently we do not have any Information from our supplier about this.

16. Other information

Full text of R-phrases referred to under sections 2 and 3.

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

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

H302	Harmful if swallowed.
H318	Causes serious eye damage.

Further information

Other information : The information provided in this Safety Data Sheet is correct to our knowledge at the date of its revision. The information given only describes the products with regard to safety arrangements and is not to be considered as a warranty or quality specification and does not constitute a legal relationship. The information contained in this Safety Data Sheet relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text

|| Indicates updated section.