

Sodium metabisulfite

**31448-1KG**

Version 1.3

Issuing date 12/09/2016

Revision Date 01/20/2023

Print Date 06/05/2023

**1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****Product information**

Trade name : Sodium metabisulfite

Number : 000000020544

Recommended use of the chemical and restrictions on use : Laboratory chemicals

Manufacturer or supplier's details : Honeywell Specialty Chemicals Seelze GmbH  
Wunstorfer Straße 40  
Seelze, 30926  
Germany

For further information, please contact: : 1-800-368-0050  
+1-231-726-3171  
(Monday-Friday, 9:00am-5:00pm)

**In case of emergency call :** **Medical: 1-800-498-5701 or +1-303-389-1414**  
**Transportation (CHEMTREC): 1-800-424-9300 or +1-703-527-3887**  
**In Japan: +(81)-345209637**

**2. HAZARDS IDENTIFICATION****Classification of the substance or mixture**

Classification of the substance or mixture : Acute toxicity, Category 4, Oral  
Serious eye damage, Category 1

**GHS Label elements, including precautionary statements**

Symbol(s) :



Signal word : Danger

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

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Precautionary statements

: **Prevention:**

Wash skin thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Wear protective gloves/protective clothing/eye protection/face protection.

**Response:**

IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell.

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/ doctor.  
Rinse mouth.

**Disposal:**

Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not result in classification

: Contact with acids liberates toxic gas.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula : Na<sub>2</sub>S<sub>2</sub>O<sub>5</sub>

Chemical nature : Substance

Chemical name	CAS-No.	Concentration
Sodium metabisulfite	7681-57-4	100.00 %
Sodium metabisulfite		

## 4. FIRST AID MEASURES

General advice

: First aider needs to protect himself.  
Move out of dangerous area.  
Immediately take off contaminated clothing and rinse body with plenty of water.

Inhalation

: When inhaled remove to fresh air and seek medical aid.

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Skin contact	: After contact with skin, wash immediately with plenty of water.
Eye contact	: Protect unharmed eye. Rinse thoroughly with plenty of water, also under the eyelids. Call a physician immediately.
Ingestion	: When swallowed, allow water to be drunk. Do NOT induce vomiting. Call a physician immediately.
Notes to physician	: Treat symptomatically.

## 5. FIREFIGHTING MEASURES

Suitable extinguishing media	: Water spray Foam Carbon dioxide (CO2) Dry powder
Specific hazards during firefighting	: In case of fire hazardous decomposition products may be produced such as: Sulphur oxides
Special protective equipment for firefighters	: Wear self-contained breathing apparatus and protective suit. No unprotected exposed skin areas.
Further information	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	: Evacuate personnel to safe areas. Wear personal protective equipment. Unprotected persons must be kept away. Ensure adequate ventilation. Avoid dust formation. Do not get in eyes, on skin, or on clothing. Avoid breathing dust.
Environmental precautions	: Prevent further leakage or spillage if safe to do so.
Methods and materials for containment and cleaning up	: Use mechanical handling equipment. Sweep up and shovel into suitable containers for disposal.

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Dispose of in accordance with local regulations.

## 7. HANDLING AND STORAGE

### Handling

Precautions for safe handling : Wear personal protective equipment.  
Use only in well-ventilated areas.  
Never return unused material to storage receptacle.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

### Storage

Conditions for safe storage, including any incompatibilities : Store in original container.  
Keep containers tightly closed in a dry, cool and well-ventilated place.  
Protect from atmospheric moisture and water.

Advice on common storage : Do not store near acids.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

### Appropriate engineering controls

Use with local exhaust ventilation.

### Individual protection measures, such as personal protective equipment

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.

Hand protection : Latex gloves  
Gloves must be inspected prior to use.  
Replace when worn.

Eye protection : Face-shield  
Safety goggles

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Skin and body protection	: Complete suit protecting against chemicals
Hygiene measures	: Keep working clothes separately. Separate rooms are required for washing, showering and changing clothes. Take off all contaminated clothing immediately. Wash hands before breaks and at the end of workday.
Protective measures	: Ensure that eyewash stations and safety showers are close to the workstation location. Legal requirements are to be considered in regard of the selection, use and care of personal protective equipment. Do not get in eyes, on skin, or on clothing. Avoid breathing dust.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: solid
Colour	: colourless
Odour	: stinging
Odour Threshold	: Note: No data available
pH	: 3.5 - 5.0 at 50.00 g/l, 20 °C
Melting point/range	: > 150 °C Note: Decomposes without melting.
Boiling point/boiling range	: Note: Decomposes on heating.
Flash point	: Note: Not applicable
Evaporation rate	: Note: No data available
Flammability	: The product is not flammable.
Lower explosion limit	: Note: Not applicable
Upper explosion limit	: Note: Not applicable

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Vapour pressure	: Note: negligible
Vapour density	: Note: No data available
Density	: 2.36 g/cm <sup>3</sup> at 20 °C
Water solubility	: 667 g/l at 20 °C
Partition coefficient: n-octanol/water	: log Pow: -3.7
Ignition temperature	: Note: Not applicable
Auto-ignition temperature	: Note: not auto-flammable
Decomposition temperature	: Note: Decomposes without melting.
Viscosity, dynamic	: Note: No data available
Viscosity, kinematic	: Note: No data available
Oxidizing properties	: The substance or mixture is not classified as oxidizing.
Molecular weight	: 190.11 g/mol
Bulk density	: 1,000 - 1,200 kg/m <sup>3</sup>

## 10. STABILITY AND REACTIVITY

Chemical stability	: Stable under recommended storage conditions.
Possibility of hazardous reactions	: Exothermic reaction with strong acids. Heating can release hazardous gases. With oxidizing agents possible.
Conditions to avoid	: Protect from atmospheric moisture and water.

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Incompatible materials to avoid : Contact with strong acids liberates sulphur dioxide.  
Oxidizing agents

Hazardous decomposition products : Sulphur dioxide

## 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Inhalation, Eye contact, Skin contact, Ingestion

Acute oral toxicity : LD50: 1,540 mg/kg  
Species: Rat  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50: > 5.5 mg/l , dust/mist  
Exposure time: 4 h  
Species: Rat, male and female  
Method: OECD Test Guideline 403  
Test substance: REACH dossier "read-across"  
Note: No deaths

Skin corrosion/irritation : Species: Rabbit  
Result: No skin irritation  
Method: OECD Test Guideline 404

Serious eye damage/eye irritation : Species: Rabbit  
Result: Risk of serious damage to eyes.  
Method: OECD Test Guideline 405

Respiratory or skin sensitisation : Mouse local lymph node assay  
Species: Mouse  
Result: non-sensitizing  
Method: OECD Test Guideline 429

## 12. ECOLOGICAL INFORMATION

**Aquatic and ecotoxicity**

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Toxicity to fish : Note: Not classified due to data which are conclusive although insufficient for classification.

Toxicity to daphnia and other aquatic invertebrates : static test  
EC0: 62.5 mg/l  
Exposure time: 48 h  
Species: Daphnia magna (Water flea)

: static test  
EC50: 89 mg/l  
Exposure time: 48 h  
Species: Daphnia magna (Water flea)

Toxicity to algae : static test  
EC50: 43.8 mg/l  
Exposure time: 72 h  
Species: scenedesmus subspicatus

: static test  
EC10: 33.3 mg/l  
Exposure time: 72 h  
Species: scenedesmus subspicatus

Toxicity to bacteria : LC50: 56 mg/l  
Exposure time: 17 h  
Species: Pseudomonas putida

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : semi-static test  
NOEC: > 10 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)

**Persistence and degradability****Other adverse effects**

Additional ecological information : The methods for determining biodegradability are not applicable to inorganic substances.



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Chemical Oxygen Demand : Value: 165 mg/g  
(COD)

## 13. DISPOSAL CONSIDERATIONS

Disposal methods : In accordance with local and national regulations.

## 14. TRANSPORT INFORMATION

### ADR

Not dangerous goods

### IATA

Not dangerous goods

### IMDG

Not dangerous goods

### RID

Not dangerous goods

## 15. REGULATORY INFORMATION

### National regulatory information

Substances Subject to be :  
Notified Names Threshold Concentration: 1 % wt 412  
JP MSDSD

Substances Subject to be : Article 18  
Indicated Names Threshold limits: 1 % wt 412  
JPISHL LR

Fire Service Law : Not relevant

Japan. ISHL Hazardous : Listed  
Substances Subject to Sodium metabisulfite 7681-57-4  
Labeling Requirements  
(ISHL Enforcement Order,

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Article 18, Art. 30 & 31), as amended

Japan. SDS and Risk Assessment Requirements (ISHL Art. 57-2 and 57-3, Enforcement Order Art. 18-2, Enforcement Rule Art. 34-2 and 34-2-2), as amended : Listed  
Sodium metabisulfite 7681-57-4

Poisonous and Deleterious Substances Control Law : Not relevant

## Other international regulations

### Notification status

US. Toxic Substances Control Act : On TSCA Inventory

Australia. Inventory of Industrial Chemicals (AIIC), as amended : On the inventory, or in compliance with the inventory

Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL) : All components of this product are on the Canadian DSL

Japan. Kashin-Hou Law List : On the inventory, or in compliance with the inventory

Korea. Existing Chemicals Inventory (KECI) : On the inventory, or in compliance with the inventory

Philippines. Inventory of Chemicals and Chemical Substances (PICCS) : On the inventory, or in compliance with the inventory

China. Inventory of Existing Chemical Substances (IECSC) : On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand : On the inventory, or in compliance with the inventory

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Taiwan Chemical Substance Inventory (TCSI) : On the inventory, or in compliance with the inventory

## 16. OTHER INFORMATION

	HMIS III	NFPA
Health hazard	: 2*	2
Flammability	: 0	0
Physical Hazard	: 1	
Instability	:	1

\* - Chronic health hazard

Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use of individuals trained in the particular system.

### Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user. This information should not constitute a guarantee for any specific product properties.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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