

# Safety Data Sheet

## Sodium Metabisulfite non food grade

Revision date : 2022/09/01  
Version: 5.0

Page: 1/11  
(30042378/SDS\_GEN\_US/EN)

### 1. Identification

#### Product identifier used on the label

## Sodium Metabisulfite non food grade

#### Recommended use of the chemical and restriction on use

Recommended use\*: Chemical

Recommended use\*: inorganic reducing agents; Chemical; initial product for chemical syntheses

Unsuitable for use: Not intended for sale to or use by the general public.

\* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

#### Details of the supplier of the safety data sheet

##### Company:

BASF CORPORATION  
100 Park Avenue  
Florham Park, NJ 07932, USA

Telephone: +1 973 245-6000

#### Emergency telephone number

##### 24 Hour Emergency Response Information

CHEMTREC: 1-800-424-9300

BASF HOTLINE: 1-800-832-HELP (4357)

#### Other means of identification

Chemical family: salt of inorganic acids

Synonyms: sodium metabisulphite Use: chemical

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### 2. Hazards Identification

#### According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

#### Classification of the product

Acute Tox.	4 (oral)	Acute toxicity
Eye Dam./Irrit.	1	Serious eye damage/eye irritation

# Safety Data Sheet

## Sodium Metabisulfite non food grade

Revision date: 2022/09/01  
Version: 5.0

Page: 2/11  
(30042378/SDS\_GEN\_US/EN)

Aquatic Acute

3

Hazardous to the aquatic environment - acute

### Label elements

Pictogram:



Signal Word:  
Danger

Hazard Statement:

H318 Causes serious eye damage.  
H302 Harmful if swallowed.  
H402 Harmful to aquatic life.

Precautionary Statements (Prevention):

P280 Wear eye and face protection.  
P273 Avoid release to the environment.  
P270 Do not eat, drink or smoke when using this product.  
P264 Wash contaminated body parts thoroughly after handling.

Precautionary Statements (Response):

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 or physician.  
P330 Rinse mouth

Precautionary Statements (Disposal):

P501 Dispose of contents and container to hazardous or special waste collection point.

### Hazards not otherwise classified

No specific dangers known, if the regulations/notes for storage and handling are considered. If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

Labeling of special preparations (GHS):

Contact with acids liberates toxic gas.

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## 3. Composition / Information on Ingredients

### According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Sodium metabisulfite

CAS Number: 7681-57-4

Content (W/W):  $\geq 75.0$  -  $\leq 100.0\%$

Synonym: Disulfurous acid disodium salt; Disodium disulfite

sodium sulphite

CAS Number: 7757-83-7

Content (W/W):  $\geq 0.0$  -  $< 3.0\%$

# Safety Data Sheet

## Sodium Metabisulfite non food grade

Revision date: 2022/09/01  
Version: 5.0

Page: 3/11  
(30042378/SDS\_GEN\_US/EN)

Synonym: Sodium sulfite

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### 4. First-Aid Measures

#### Description of first aid measures

**General advice:**

Remove contaminated clothing.

**If inhaled:**

If difficulties occur after dust has been inhaled, remove to fresh air and seek medical attention. After inhalation of decomposition products: Immediately administer a corticosteroid from a controlled/metered dose inhaler.

**If on skin:**

Wash thoroughly with soap and water

**If in eyes:**

Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing. Seek medical attention.

**If swallowed:**

Rinse mouth and then drink 200-300 ml of water.

#### Most important symptoms and effects, both acute and delayed

Symptoms: Overexposure may cause: vomiting, asthmatic complaints, abdominal cramps, dyspnea, nausea, diarrhea, coughing

#### Indication of any immediate medical attention and special treatment needed

Note to physician

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

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### 5. Fire-Fighting Measures

#### Extinguishing media

Suitable extinguishing media:  
foam

Unsuitable extinguishing media for safety reasons:  
No data available.

#### Special hazards arising from the substance or mixture

Hazards during fire-fighting:  
Sulphur dioxide,

The substances/groups of substances mentioned can be released if the product is involved in a fire.

#### Advice for fire-fighters

# Safety Data Sheet

## Sodium Metabisulfite non food grade

Revision date: 2022/09/01  
Version: 5.0

Page: 4/11  
(30042378/SDS\_GEN\_US/EN)

Protective equipment for fire-fighting:  
Wear a self-contained breathing apparatus.

### Further information:

Contaminated extinguishing water must be disposed of in accordance with official regulations. In case of fire and/or explosion do not breathe fumes.

### Impact Sensitivity:

Remarks: Based on the chemical structure there is no shock-sensitivity.

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## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Use personal protective clothing. Ensure adequate ventilation. Avoid dust formation. Avoid contact with eyes.

### Environmental precautions

Do not discharge into drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

### Methods and material for containment and cleaning up

Spills should be contained and placed in suitable containers for disposal.

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## 7. Handling and Storage

### Precautions for safe handling

Use only in well-ventilated areas. Avoid dust formation.

Protection against fire and explosion:

The substance/product is non-combustible. No special precautions necessary.

### Conditions for safe storage, including any incompatibilities

Segregate from acids and acid forming substances. Segregate from oxidants.  
Do not store with: Sodium nitrate, sodium nitrite, sodium sulfide

Suitable materials for containers: rubberized, Polyester resin, glass reinforced (Palatal A410), Stainless steel 1.4541, Stainless steel 1.4571, High density polyethylene (HDPE)

Further information on storage conditions: Keep container tightly closed and dry; store in a cool place. Keep container in a well-ventilated place.

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## 8. Exposure Controls/Personal Protection

### Components with occupational exposure limits

Sodium metabisulfite            ACGIH, US:    TWA value 5 mg/m<sup>3</sup> ;

The substance mentioned develops if the regulation/notes for storage and handling are not observed.

# Safety Data Sheet

## Sodium Metabisulfite non food grade

Revision date: 2022/09/01  
Version: 5.0

Page: 5/11  
(30042378/SDS\_GEN\_US/EN)

Sulphur dioxide                      ACGIH, US:    STEL value 0.25 ppm ;  
    OSHA Z1:       PEL 5 ppm 13 mg/m3 ;

### **Personal protective equipment**

Respiratory protection:  
Wear a NIOSH-certified (or equivalent) particulate respirator.

Hand protection:  
Chemical resistant protective gloves, nitrile rubber (NBR) - 0.4 mm coating thickness, polyvinylchloride (PVC) - 0.7 mm coating thickness

**Eye protection:**  
Tightly fitting safety goggles (chemical goggles).

**Body protection:**  
Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

**General safety and hygiene measures:**  
Hands and/or face should be washed before breaks and at the end of the shift.

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## **9. Physical and Chemical Properties**

Form:	powder, crystalline
Odour:	faint odour, of sulfur dioxide
Odour threshold:	Not determined due to potential health hazard by inhalation.
Colour:	white to slightly yellow
pH value:	4.0 - 4.8 ( 5 %(m), 20 °C)
decomposition point:	> 150 °C The substance / product decomposes.
Boiling point:	The substance / product decomposes therefore not determined.
Flash point:	not applicable, the product is a solid
Flammability:	not flammable (other)
Lower explosion limit:	For solids not relevant for classification and labelling.
Upper explosion limit:	For solids not relevant for classification and labelling.
Vapour pressure:	The vapour pressure of the aqueous solution consists of the partial pressure for water and the partial pressure for sulphur dioxide.
Density:	2.36 g/cm <sup>3</sup> ( 20 °C)
Bulk density:	1,000 - 1,200 kg/m <sup>3</sup>
Partitioning coefficient n-octanol/water (log Pow):	not applicable
Self-ignition temperature:	No data available.

# Safety Data Sheet

## Sodium Metabisulfite non food grade

Revision date: 2022/09/01  
Version: 5.0

Page: 6/11  
(30042378/SDS\_GEN\_US/EN)

Thermal decomposition:	150 °C To avoid thermal decomposition, do not overheat.
Viscosity, dynamic:	not applicable
Viscosity, kinematic:	not applicable, the product is a solid
Solubility in water:	667 g/l ( 25 °C) Literature data.
Evaporation rate:	The product is a non-volatile solid.

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## 10. Stability and Reactivity

### Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals:

No corrosive effect on metal.

Oxidizing properties:

Based on its structural properties the product is not classified as oxidizing.

### Chemical stability

The product is stable if stored and handled as prescribed/indicated.

### Possibility of hazardous reactions

The product is stable if stored and handled as prescribed/indicated.

Reacts with nitrites. Reacts with nitrates. Reacts with oxidizing agents.

### Conditions to avoid

Avoid humidity.

### Incompatible materials

acids, oxidizing agents, nitrites, nitrates, sulfides

### Hazardous decomposition products

Decomposition products:

Hazardous decomposition products: Sulphur dioxide

Thermal decomposition:

150 °C

To avoid thermal decomposition, do not overheat.

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## 11. Toxicological information

### Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

### Acute Toxicity/Effects

Acute toxicity

# Safety Data Sheet

## Sodium Metabisulfite non food grade

Revision date: 2022/09/01

Version: 5.0

Page: 7/11

(30042378/SDS\_GEN\_US/EN)

Assessment of acute toxicity: Of moderate toxicity after single ingestion. Virtually nontoxic by inhalation. Virtually nontoxic after a single skin contact. The product has not been fully tested. The statements have been derived in parts from products of a similar structure or composition.

### Oral

Type of value: LD50

Species: rat (male/female)

Value: 1,540 mg/kg (OECD Guideline 401)

### Inhalation

Type of value: LC50

Species: rat (male/female)

Value: > 5.5 mg/l (IRT)

Exposure time: 4 h

Tested as dust aerosol.

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

### Dermal

Type of value: LD50

Species: rat (male/female)

Value: > 2,000 mg/kg (OECD Guideline 402)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

### Assessment other acute effects

Assessment of STOT single:

Apart from effects causing lethality, no specific target organ toxicity was observed in experimental studies.

### Irritation / corrosion

Assessment of irritating effects: Risk of serious damage to eyes. Not irritating to the skin.

### Skin

Species: rabbit

Result: non-irritant

Method: OECD Guideline 404

### Eye

Species: rabbit

Result: Risk of serious damage to eyes.

Method: OECD Guideline 405

### Sensitization

Assessment of sensitization: Skin sensitizing effects were not observed in animal studies. A sensitizing effect on particularly sensitive individuals cannot be excluded.

### Mouse Local Lymph Node Assay (LLNA)

Species: mouse

Result: Non-sensitizing.

Method: OECD Guideline 429

### Aspiration Hazard

not applicable

# Safety Data Sheet

## Sodium Metabisulfite non food grade

Revision date: 2022/09/01  
Version: 5.0

Page: 8/11  
(30042378/SDS\_GEN\_US/EN)

### Chronic Toxicity/Effects

#### Repeated dose toxicity

Assessment of repeated dose toxicity: No substance-specific organotoxicity was observed after repeated administration to animals.

#### Genetic toxicity

Assessment of mutagenicity: No mutagenic effect was found in various tests with bacteria and mammalian cell culture. The substance was not mutagenic in studies with mammals.

#### Carcinogenicity

Assessment of carcinogenicity: In long-term studies in rats in which the substance was given by feed, a carcinogenic effect was not observed.

#### Reproductive toxicity

Assessment of reproduction toxicity: The results of animal studies gave no indication of a fertility impairing effect.

#### Teratogenicity

Assessment of teratogenicity: No indications of a developmental toxic / teratogenic effect were seen in animal studies.

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## 12. Ecological Information

### Toxicity

#### Aquatic toxicity

Assessment of aquatic toxicity:

Acutely harmful for aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

#### Toxicity to fish

LC50 (96 h) 316 mg/l, *Leuciscus idus* (DIN 38412 Part 15, static)

The details of the toxic effect relate to the nominal concentration. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

#### Aquatic invertebrates

EC50 (48 h) 89 mg/l, *Daphnia magna* (Directive 79/831/EEC, static)

Nominal concentration.

#### Aquatic plants

EC50 (72 h) 43.8 mg/l (growth rate), algae (other, static)

Nominal concentration.

#### Chronic toxicity to fish

No observed effect concentration (34 d) > 316 mg/l, *Brachydanio rerio* (OECD Guideline 210, Flow through.)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

#### Chronic toxicity to aquatic invertebrates

No observed effect concentration (21 d) > 10 mg/l, *Daphnia magna* (OECD Guideline 202, part 2, semistatic)

Nominal concentration.



# Safety Data Sheet

## Sodium Metabisulfite non food grade

Revision date: 2022/09/01  
Version: 5.0

Page: 9/11  
(30042378/SDS\_GEN\_US/EN)

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### Assessment of terrestrial toxicity

Study scientifically not justified.

### **Microorganisms/Effect on activated sludge**

#### Toxicity to microorganisms

OECD Guideline 209 aquatic

activated sludge of a predominantly domestic sewage/No observed effect concentration (3 h): > 1,000 mg/l

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

### **Persistence and degradability**

#### Assessment biodegradation and elimination (H<sub>2</sub>O)

Inorganic product which cannot be eliminated from water by biological purification processes.

#### Assessment of stability in water

According to structural properties, hydrolysis is not expected/probable.

Study scientifically not justified.

### **Bioaccumulative potential**

#### Assessment bioaccumulation potential

Accumulation in organisms is not to be expected.

#### Bioaccumulation potential

Study scientifically not justified.

### **Mobility in soil**

#### Assessment transport between environmental compartments

The substance will not evaporate into the atmosphere from the water surface.

Adsorption to solid soil phase is not expected.

### **Additional information**

#### Sum parameter

Chemical oxygen demand (COD): (calculated) 165 mg/g

#### Other ecotoxicological advice:

Higher concentrations of the substance may cause a strong chemical oxygen consumption in biological sewage-treatment plants and/or waterways.

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## 13. Disposal considerations

#### Waste disposal of substance:

Dispose of in accordance with national, state and local regulations. This material and its container must be disposed of in a safe way.

#### **Container disposal:**

Empty containers with less than 1 inch of residue may be landfilled at a licensed facility.

# Safety Data Sheet

## Sodium Metabisulfite non food grade

Revision date: 2022/09/01  
Version: 5.0

Page: 10/11  
(30042378/SDS\_GEN\_US/EN)

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### 14. Transport Information

**Land transport**  
USDOT

Not classified as a dangerous good under transport regulations

**Sea transport**  
IMDG

Not classified as a dangerous good under transport regulations

**Air transport**  
IATA/ICAO

Not classified as a dangerous good under transport regulations

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### 15. Regulatory Information

**Federal Regulations**

**Registration status:**

Chemical TSCA, US released / listed

Food TSCA, US released / exempt

**EPCRA 311/312 (Hazard categories):** Refer to SDS section 2 for GHS hazard classes applicable for this product.

**State regulations**

**State RTK**

PA

**CAS Number**

7681-57-4

7757-82-6

7681-57-4

**Chemical name**

Sodium metabisulfite

Sodium sulfate

Sodium metabisulfite

**NFPA Hazard codes:**

Health: 3

Fire: 0

Reactivity: 1

Special:

**Assessment of the hazard classes according to UN GHS criteria (most recent version):**

Acute Tox.

4 (oral)

Acute toxicity

Eye Dam./Irrit.

1

Serious eye damage/eye irritation

Aquatic Acute

3

Hazardous to the aquatic environment - acute

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### 16. Other Information

**SDS Prepared by:**

BASF NA Product Regulations

SDS Prepared on: 2022/09/01

# Safety Data Sheet

## Sodium Metabisulfite non food grade

Revision date: 2022/09/01

Version: 5.0

Page: 11/11

(30042378/SDS\_GEN\_US/EN)

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