



# SODIUM META BISULFITE 98%

## Safety Data Sheet

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### SECTION 1: Identification

#### 1.1. Identification

**Product Name** : Sodium Metabisulfite 98%  
**CAS-No.** : 7681-57-4  
**Synonyms** : Sodium pyrosulfite; Disodium pyrosulfite; Disodium Disulfite (Granular/Powder)  
**Chemical Formula** : Na<sub>2</sub>S<sub>2</sub>O<sub>5</sub>

#### 1.2. Recommended use and restrictions on use

**Recommended use** : Water dechlorination agent and other chemical process applications

#### 1.3. Supplier

**Manufacturer Name** : National company for sulphur products  
**Address:** National Company For Sulphur Products,  
Head Office: P.O Box 2951, Riyadh 11461  
Email: [ncsp@ncsp.com.sa](mailto:ncsp@ncsp.com.sa)  
Tel :011 4647711 Fax: 2170866  
**Factory:** 3<sup>rd</sup> Industrial Area - Dammam

#### 1.4. Emergency telephone number

**Emergency number** : Tel :011 4647711 Fax: 2170866

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS-US classification

Skin corrosion/irritation Category 1 H315 Causes skin irritation  
Serious eye damage/eye irritation Category 1 H319 Causes serious eye irritation

#### 2.2. GHS Label elements, including precautionary statements

##### statements

##### GHS-US labeling

**Signal word (GHS-US)** : Danger



**Pictogram** :

**Hazard statements (GHS-US)** : Harmful if swallowed Causes serious eye damage Contact with acids liberates toxic gas

**Precautionary statements (GHS-US)** : Wear protective gloves/protective clothing/eye protection/face protection Take any precaution to avoid mixing with acids.  
Do not breathe dust/fumes/gas/mist/vapours/spray Wear respiratory protection  
Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product

#### 2.3. Other hazards which do not result in classification

**Other hazards not contributing to the classification** : None.

#### 2.4. Unknown acute toxicity (GHS US)

Not applicable

**NFPA Rating** : Health – 2 , Flammability – 0 , Reactivity - 1





## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

| Component            | CAS-No    | Weight % |
|----------------------|-----------|----------|
| Sodium metabisulfite | 7681-57-4 | Min 98.0 |

### 3.2. Mixtures

Not applicable

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

|                                       |                                                                                                                                                                                  |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| First-aid measures general            | : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).                                                |
| First-aid measures after inhalation   | : Allow victim to breathe fresh air. Allow the victim to rest.                                                                                                                   |
| First-aid measures after skin contact | : Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs. Get medical advice/attention.                                          |
| First-aid measures after eye contact  | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. |

### 4.2. Most important symptoms and effects (acute and delayed)

|                                     |                                                                            |
|-------------------------------------|----------------------------------------------------------------------------|
| First-aid measures after ingestion  | : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. |
| Symptoms/effects after inhalation   | : May cause respiratory irritation.                                        |
| Symptoms/effects after skin contact | : Causes skin irritation.                                                  |
| Symptoms/effects after eye contact  | : Causes serious eye irritation.                                           |
| Symptoms/effects after ingestion    | : Central nervous system depression. Diarrhoea. Nausea. Vomiting.          |

### 4.3. Immediate medical attention and special treatment, if necessary

Obtain medical assistance.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

|                                      |                                                  |
|--------------------------------------|--------------------------------------------------|
| Suitable extinguishing media         | : Foam. Dry powder. Carbon dioxide. Water spray. |
| Sand. Unsuitable extinguishing media | : Do not use a heavy water stream.               |

### 5.2. Specific hazards arising from the chemical

|                  |                   |
|------------------|-------------------|
| Fire hazard      | : Not flammable.  |
| Explosion hazard | : Not applicable. |

### 5.3. Special protective equipment and precautions for fire-fighters

|                                |                                                                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Firefighting instructions      | : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment. |
| Protection during firefighting | : Do not enter fire area without proper protective equipment, including respiratory protection.                                                                   |

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

|                      |                                   |
|----------------------|-----------------------------------|
| Protective equipment | : Gloves. Safety glasses.         |
| Emergency procedures | : Evacuate unnecessary personnel. |

#### 6.1.2. For emergency responders

|                      |                                              |
|----------------------|----------------------------------------------|
| Protective equipment | : Equip cleanup crew with proper protection. |
| Emergency procedures | : Ventilate area.                            |

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

|                         |                                                                                                                    |
|-------------------------|--------------------------------------------------------------------------------------------------------------------|
| Methods for cleaning up | : On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials. |
|-------------------------|--------------------------------------------------------------------------------------------------------------------|

#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.

Hygiene measures : Wash exposed skin thoroughly after handling.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container closed when not in use.

Incompatible products : Strong acids.

Incompatible materials : Moisture.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available

#### 8.2. Appropriate engineering controls

Appropriate engineering controls : Provide adequate general and local exhaust ventilation. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.

#### 8.3. Individual protection measures/Personal protective equipment

**Personal protective equipment:**

Gloves. Safety glasses.



**Hand protection**

: Wear protective gloves.

**Eye protection**

: Chemical goggles or safety glasses

**Skin and body protection**

: Wear suitable protective clothing

**Respiratory protection**

: Respiratory protection not required in normal conditions

**Other information**

: Do not eat, drink or smoke during use.

| Component            | Alberta                  | British Columbia         | Ontario TWA/EV           | Quebec                   | ACGIH TLV                | OSHA PEL                           | NIOSH IDLH               |
|----------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|------------------------------------|--------------------------|
| Sodium metabisulfite | TWA: 5 mg/m <sup>3</sup> | TWA: 5 mg/m <sup>3</sup> | TWA: 5 mg/m <sup>3</sup> | TWA: 5 mg/m <sup>3</sup> | TWA: 5 mg/m <sup>3</sup> | (Vacated) TWA: 5 mg/m <sup>3</sup> | TWA: 5 mg/m <sup>3</sup> |

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state : Solid  
 Color : white  
 Odor : Odorless  
 Odor threshold : No data available  
 pH : No data available  
 pH solution 5% aq.sol : 4-6  
 Melting point : 150 °C / 302 °F  
 Freezing point : No data available  
 Boiling point : No data available  
 Flash point : No data available  
 Relative evaporation rate (butyl acetate=1) : No data



|                                     |                                |
|-------------------------------------|--------------------------------|
| available Flammability (solid, gas) | : Non flammable.               |
| Vapor pressure                      | : No data available            |
| Relative vapor density at 20 °C     | : No data available            |
| Relative density                    | : No data available            |
| Specific gravity / density          | : 1.4                          |
| Molecular mass                      | : 190.1                        |
| Solubility                          | : Moderately soluble in water. |
| Log Pow                             | : No data available            |
| Auto-ignition temperature           | : No data available            |
| Decomposition temperature           | : 120 °C                       |
| Viscosity, kinematic                | : No data available            |
| Viscosity, dynamic                  | : No data available            |
| Explosion limits                    | : No data available            |
| Explosive properties                | : No data available            |
| Oxidizing properties                | : No data available            |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Yes

### 10.2. Chemical stability

Air sensitive. Moisture sensitive

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Avoid dust formation. Incompatible products. Excess heat. Exposure to air or moisture over prolonged periods

### 10.5. Incompatible materials

Strong acids. Strong oxidizers.

### 10.6. Hazardous decomposition products

Sodium oxide. Sulfur compounds.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

| Component            | LD50 Oral                 | LD50 Dermal           | LC50 Inhalation |
|----------------------|---------------------------|-----------------------|-----------------|
| Sodium metabisulfite | LD50 = 1310 mg/kg ( Rat ) | LD50 > 2 g/kg ( Rat ) | Not listed      |

Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Irritation** Risk of serious damage to eyes

**Sensitization** No information available

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Component            | CAS-No    | IARC       | NTP        | ACGIH      | OSHA       | Mexico     |
|----------------------|-----------|------------|------------|------------|------------|------------|
| Sodium metabisulfite | 7681-57-4 | Not listed | Not listed | Not listed | Not listed | Not listed |

**Other Adverse Effects** : The toxicological properties have not been fully investigated

**Endocrine Disruptor Information** : No information available

## SECTION 12: Ecological information

### 12.1. Toxicity

Do not empty into drains. Contains a substance which is: Harmful to aquatic organisms. The product contains following substances which are hazardous for the environment



| Component            | Freshwater Algae                      | Freshwater Fish                                      | Microtox            | Water Flea                                     |
|----------------------|---------------------------------------|------------------------------------------------------|---------------------|------------------------------------------------|
| Sodium metabisulfite | EC50: = 40 mg/L, 96h<br>(Desmodesmus) | LC50: = 32 mg/L, 96h static<br>(Lepomis macrochirus) | EC50 = 56 mg/L 17 h | EC50: = 89 mg/L, 24h<br>(Daphnia magna Straus) |

### 12.2. Persistence and degradability

Soluble in water Persistence is unlikely based on information available

### 12.3. Bioaccumulative potential

No information available

### 12.4. Mobility in soil

| Component            | log Pow |
|----------------------|---------|
| Sodium metabisulfite | -3.7    |

### 12.5. Other adverse effects

Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

- Waste disposal recommendations : Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.  
Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.
- Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

### Department of Transportation (DOT)

In accordance with DOT Not regulated

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

| Component            | DSL | NDSL | TSCA | EINECS    | ELINCS | NLP | PICCS | ENCS | AICS | IECSC | KECL |
|----------------------|-----|------|------|-----------|--------|-----|-------|------|------|-------|------|
| Sodium metabisulfite | X   | -    | X    | 231-673-0 | -      |     | X     | X    | X    | X     | X    |

### 15.2. International regulations

#### CANADA

SDS in compliance with provisions of information as set out in Canadian Standard - Part 4, Schedule 1 and 2 of the Hazardous Products Regulations (HPR) and meets the requirements of the HPR (Paragraph 13(1)(a) of the Hazardous Products Act (HPA)).

#### EU-Regulations

No additional information available

#### National regulations

No additional information available

## SECTION 16: Other information

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Prepared by : National Company for Sulphur products

### Disclaimer

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