

## SODIUM BISULPHITE 38-40% Safety Data Sheet

Date of issue: 01/01/2021

Revision No:1

Next Revision date: 01/01/2023

### SECTION 1: Identification

#### 1.1. Identification

**Product Name** : Sodium Bisulphite 38-40%

CAS-No : 7631-90-5

Synonyms : Sulfurous acid, monosodium salt; Sodium sulhydrate; Sodium hydrogen sulfite; Sodium acid sulfite; Monosodium sulfite; Hydrogen sulfite sodium

Chemical Formula : NaHSO<sub>3</sub>

#### 1.2. General use

**Recommended Use** : Food and pharmaceutical preservative, waste water dechlorination agent, laboratory reagent, reducing agent, dietary supplement, and color preservative.

#### 1.3. Manufacturer

**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 - Classification

Skin corrosion/irritation	Category 2
Respiratory sensitization	Category 1A
Skin sensitization	Category 1A
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 1

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

##### GHS-US labeling

##### Signal Word

Danger



Irritant



Corrosive

##### Hazard statements

: Causes serious eye irritation. Causes skin irritation Harmful if swallowed.EUH 031 Contact with acids liberates toxic gas.

##### Physical hazards

: Do not handle until all hazard precautions have been read and understood.

##### Precautionary statements

P280 : Wear protective gloves/protective clothing/eye protection/face protection.  
 P301 + P312 IF SWALLOWED : Call a POISON CENTER or doctor/physician if you feel unwell.  
 P301 + P330 + P331 IF SWALLOWED : rinse mouth. Do NOT induce vomiting

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

#### Hazardous

Chemical Name	CAS No	Weight-%	EC No
Sodium bisulphite	7631-90-5	38 - 40	231-548-0

#### Non-Hazardous

Chemical Name	CAS No	Weight-%	EC No
Water	7732-18-5	Balance	231-791-2

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

<b>General Advice</b>	: If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing.
<b>Eye Contact</b>	: Keep eye wide open while rinsing. Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. If symptoms persist, call a physician.
<b>Skin Contact</b>	: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Consult a physician if necessary.
<b>Inhalation</b>	: Move to fresh air. Obtain medical attention. If breathing is irregular or stopped, administer artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation.
<b>Ingestion</b>	: Rinse mouth. Do NOT induce vomiting. Drink plenty of water. If symptoms persist, call a physician.
<b>Note to Physicians</b>	: Treat symptomatically.
<b>Self-protection of the First Aider</b>	: Use personal protective equipment as required.

### 4.2. 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	: Dry-powder, carbon dioxide (CO <sub>2</sub> ), water mist, foam.
Improper extinguishing media	: Do not use water jet

### 5.2. Specific hazards arising from the chemical

Fire hazard	: Not flammable.
Hazardous combustion products	: Sulphurous gases (SO <sub>x</sub> ).

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

Personal protective equipment	: Use compressed air equipment when the product is involved in fire. In case of evacuation, an approved protection mask should be used. See also section 8
Other Information	: Containers close to fire should be removed immediately or cooled with water. Extinguishing water must not be discharged into drains

NFPA Rating	: Health – 2 Flammability – 0 Instability - 0
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0 = Insignificant, 1 = Slight, 2 = Moderate, 3 = High, 4=Extreme

## SECTION 6: Accidental release measures

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

Personal precautions	: Use protective equipment as referred to in section 8. Avoid inhalation of vapours and spray mist and contact with skin and eyes.
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### 6.2. Environmental precautions

Environmental precautions : Do not allow to enter into sewer, water system or soil.

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

Methods for cleaning : Absorb in vermiculite, dry sand or earth and place into containers. Collect in a suitable container and dispose as hazardous waste according to section 13.

Cleaning up : Limit spread of spilled material.

### 6.4. Reference to other sections

See also sections 8 and 13.

## SECTION 7: Handling and storage & Shelf Life

### 7.1. Precautions for safe handling

Precautions for safe handling : Wear personal protective equipment. Ensure adequate ventilation. Avoid spilling, skin and eye contact. Avoid inhalation of vapors and spray mists. Change contaminated clothing.

Hygiene measures : Wash exposed skin thoroughly after handling.

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

Storage conditions : Store dry and cool in a well ventilated area. Store in tightly closed container.

Conditions To Avoid : Avoid heat.

Packaging compatibilities : Store in original container.

Hints on storage assembly : Keep away from: Acids. Oxidizing material.

Shelf Life : **6 Months**

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure limit values

Chemical Name		ACGIH TLV		OSHA PEL		Ontario TWA	
Sodium bisulphite		TWA: 5 mg/m <sup>3</sup>		(vacated) TWA: 5 mg/m <sup>3</sup>		TWA: 5 mg/m <sup>3</sup>	
Chemical Name	European Union	China	Japan	Korea	Australia	Taiwan	
Sodium bisulphite				TWA: 5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>	

**Exposure Guidelines** : Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir.1992)

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

Wherever possible, engineering control measures such as the isolation or enclosure of the process, the of process or equipment changes to minimize release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source.

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

Personal protective equipment : Gloves, Safety glasses



#### Hand protection

: Natural rubber Nitrile rubber Neoprene PVC

#### Eye protection

: Chemical goggles or safety glasses

#### Skin and body protection

: Wear suitable protective clothing

#### Respiratory protection

: In case of inadequate ventilation or risk of inhalation of vapours, use suitable respiratory equipment with combination filter (type A2/P2). Sodium Bisulphite 36 - 40 % solution Page 3 of 7 If risk of inhalation of sulfur dioxide: Use respiratory equipment with combination filter, type E2/P2.

#### Other information

: Do not eat, drink or smoke during use.

The listed protective equipment is a recommendation. A risk assessment of the actual risk may lead to other requirements. Emergency shower and eye wash facilities should be available at the workplace.

## SECTION 9: Physical and chemical properties

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

Physical state	: Fluid.
Colour	: Colorless to pale yellow.
Odour	: Sulphur.
Comments, Odour limit	: Not known.
pH (as supplied) Value	: 4.0-6.0
Comments, pH (as supplied)	: Concentrated solution.
Melting point/melting range Value	: < 2 °C
Boiling point / boiling range Value	: 98 °C
Comments, Boiling point / boiling range	: Pressure: 1013 hPa.
Comments, Flash point	: Not known.
Comments, Evaporation rate	: Not known.
Flammability (solid, gas)	: Not known.
Comments, Explosion limit	: Not known.
Vapour pressure Value	: 27 mba Test temperature 20 °C
Comments, Vapour density	: Not known.
Specific gravity Value	: 1.29-1.40 g/cm <sup>3</sup>
Solubility in water	: Soluble.
Comments, Partition coefficient	
n-octanol / water	: Not known.
Comments, Spontaneous combustability	: Not known.
Comments, Decomposition temperature	: Not known.
<b>Physical hazards</b>	
Explosive properties	: Not known.
Oxidising properties	: Not known.

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Data lacking

### 10.2. Chemical stability

Stable under normal temperature conditions and recommended use

### 10.3. Possibility of hazardous reactions

Arise in contact with incompatible materials (section 10.5) and inappropriate conditions (section 10.4). Contact with acids liberates toxic gas. Strong acids. Strong oxidizers.

### 10.4. Condition to avoid

Avoid Heat

### 10.5. Incompatible materials

Acids. Avoid contact with oxidizing agents.

### 10.6. Hazardous decomposition products

None under normal conditions. See also section 5.2.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Toxicological Information:

LD50 oral Value	: 1420 mg/kg
	Test animal species: Rat
	Comments: CAS-nr.:7631-90-5.

#### Potential acute effects

Inhalation	: Vapour may irritate respiratory system or lungs.
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Skin contact	: May cause irritation.
Eye contact	: May irritate and cause redness and pain. Ingestion
Harmful	: if swallowed.
<b>Delayed effects / repeated</b>	
Exposure Sensitization	: None of the substances mentioned in section 3 is considered to have sensitizing effects according to current labeling rules.
<b>Carcinogenic, Mutagenic or Reprotoxic</b>	
Carcinogenicity	: None of the substances mentioned in section 3 is considered as carcinogenic according to current labeling rules.
Mutagenicity	: None of the substances mentioned in section 3 are considered to have mutagenic or pro-mutagenic effects.
Teratogenic properties	: None of the substances mentioned in section 3 are considered to cause harm to the unborn child.
Reproductive toxicity	: None of the substances mentioned in section 3 are considered to have genotoxic effects.

## SECTION 12: Ecological information

### 12.1. Toxicity

Acute aquatic, fish	: Value 240 mg/l Method of testing: LD50 fish, species: Gambusia affinis Duration: 96 hours
Acute aquatic, Daphnia	: Value: 119 mg/l Method of testing: EC50 Daphnia, species: Daphnia magna Duration: 48 hours
Ecotoxicity	: The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

### 12.2. Persistence and degradability

The product contains inorganic compounds that are not biodegradable

### 12.3. Bio accumulative potential

Not expected to bio accumulate.

### 12.4. Mobility in soil

Soluble in water

### 12.5. Other adverse effects

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

<b>Waste Disposal Methods</b>	: Disposed of as hazardous waste by approved contractor. The waste code (EWC-Code) is intended as a guide. The code must be chosen by the user, if the use differs from the one mentioned above.
Product classified as hazardous waste	: Yes
EWC waste code	: EWC: 06 01 06 other acids
NORSAS 7131	: Acids, inorganic.

## SECTION 14: Transport Information

14.1. UN number Comment : Not considered as dangerous goods under UN, IMO, ADR/RID or IATA/ICAO regulations.

### Department of Transportation (DOT)

In accordance with DOT Not regulated

## SECTION 15: Regulatory information

### 15.1 International Inventories

**All of the components in the product are on the following Inventory lists:** TSCA (United States);, Canada (DSL/NDL), Europe (EINECS/ELINCS/NLP), Australia (AICS), South Korea (KECL);, China (IECSC), ENCS (Japan);, Philippines (PICCS), This product contains a substance not listed on international inventories - it is for research and development use only



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Chemical Name	AICS	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS
Sodium bisulphite	Listed	Listed	Listed	-	Listed	-	(1)-502	Listed	KE-31484	Present
Water	Listed	Listed	Listed	-	Listed	-	-	Listed	KE-35400	Present

### Inventory Legend

**AICS** - Australian Inventory of Chemical Substances

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**RESTRICTIONS** - REACH TITLE VII No information available

### US Federal Regulations

#### CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	CERCLA Hazardous Substances and the Reportable Quantities	SARA Extremely Hazardous Substances EPCRA RQ	SARA Extremely Hazardous Substances TPQ
Sodium bisulphite	5000 lb 2270 kg	-	-

## 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)).

## SECTION 16: Other information

Revision date : 01-January-2021

Next Revision : 01-January-2024

Prepared by : National company for sulphur products- Riyadh

### Disclaimer

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.