

# Marchi Industriale S.p.A.

## SAFETY DATA SHEET

In accordance with Regulation (EC) 1907/2006 (REACH), Annex II

# SODIUM BISULPHITE

### 1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

#### 1.1 Product identifier

Trade name:	SODIUM BISULPHITE
Other names:	SODIUM BISULPHITE
Chemical name:	SODIUM HYDROGENSULFITE
INDEX number as listed in Annex VI of CLP:	016-064-00-8
EC number:	231-548-0
CAS number:	7631-90-5
REACH registration n:	01-2119524563-42-XXXX

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

Uses: (see corresponding ES as attachment to this SDS)	<u>Use in industrial- and professional settings:</u> <ul style="list-style-type: none"><li>- Manufacture of Sodium Bisulphite and other industrial uses</li><li>- Professional use of aqueous solutions of the substance as such or in mixture</li><li>- Industrial use of the substance in the sectors of wood processing and furniture</li><li>- Professional use of the substance in the sectors of wood processing and furniture</li></ul> <u>Use by consumer:</u> <ul style="list-style-type: none"><li>- Use by the consumer of chewing ink containing the substance</li></ul>
Uses advised against:	Any use

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

Manufacturer/Importer/Supplier:	Marchi Industriale Spa – Via Trento, 16 – 50139 Firenze (FI) Tel +39 055475547, fax +39 055496626
Person responsible for the Safety Data Sheet (with e-mail address)	laboratorio@marchi-industriale.it

#### 1.4 Emergency telephone number

Emergency phone number (Poison centre H24)	Milano – 0266101029 / Napoli – 0817472870 Pavia – 038224444 / Bergamo - 800883300 / Foggia 0881732326 / Firenze 0557947819 Roma – 063054343 opp. 0649978000
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### 2. HAZARDS IDENTIFICATION

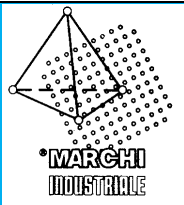
#### 2.1 Classification of the substance

The product is classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of EC Regulation 1907/2006 and subsequent amendments. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard statement(s):	Acute toxicity, category 4 H302	Harmful if swallowed
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#### 2.2 Label elements

Labelling in accordance with Regulation 1272/2008 (CLP)		
Hazard pictogram(s):		
Signal word	Warning	
Hazard statement(s):	H302 EUH031	Harmful if swallowed Contact with acids liberates toxic gas



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Precautionary statement(s):	P264 P301+P312 P330	Wash hands thoroughly after handling IF SWALLOWED: call a POISON CENTER /doctor if you feel unwell Rinse mouth
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### 2.3 Other hazards

PBT/vPvB criteria:	On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.
Other hazards:	None known.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substances

According to the REACH Regulation the product is a mono-constituent.  
The full wording of hazard (H) phrases is given in section 16 of the sheet.

Chemical name	CAS no.	EC no.	IUPAC name	Purity
Sodium Hydrogensulfite	7631-90-5	231-548-0	Sodium hydrogen sulfite	ca.100 %

### 4. FIRST-AID MEASURES

#### 4.1 Description of first aid measures

Eye contact:	Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Remove contact lenses if present and easy to do. Get medical attention if irritation develops and persists.
Skin contact:	Remove contaminated clothing. Rinse skin with a shower immediately for at least 15 minutes. Get medical advice/attention.
Ingestion:	Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorized by a doctor. Never give anything by mouth to an unconscious person.
Inhalation:	Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene in case you experience side effects (eg. Dizziness, drowsiness or respiratory irritation). If not breathing, give artificial respiration or if breathing is difficult, give oxygen and seek medical advice. Do not use mouth-to-mouth. Consult your doctor immediately if you are intensively inhaled vapors. Because the effects may be delayed, it is preferable to keep the person under medical observation for at least 48 hours. The gases released in contact with acids is toxic, therefore the measures described above are to be observed. Take suitable precautions for rescue workers.

#### 4.2 Most important symptoms and effects

Acute effects: ingestion of this product is harmful. Even small amounts of product may cause serious health problems (stomach pain, nausea, sickness, diarrhoea).

Delayed effects: none are known

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

Depending on the route of exposure: see section 4.1

### 5. FIRE-FIGHTING MEASURES

#### 5.1 Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT	Extinguishing substances are: carbon dioxide and chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.
UNSUITABLE EXTINGUISHING EQUIPMENT	Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

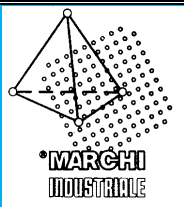
#### 5.2 Special hazards arising from the substance or mixture

Do not use jets of water.

Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

#### 5.3 Advice for firefighters

GENERAL INFORMATION



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In the case of fire, use jets of water to cool the containers to prevent the risk of explosions (product decomposition and excess pressure) and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Remove all containers containing the product from the fire, if it is safe to do so.

### SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

### 6. ACCIDENTAL RELEASE MEASURES

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

If there are no contraindications, spray powder with water to prevent the formation of dust. Avoid breathing vapours/mists/gases.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

#### 6.2 Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

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

For recovery or disposal it is necessary to aspire or clean and put in suitable containers labeled. Clean the affected area with a large amount of water. Do not collect spilled material in sawdust or other combustible material, use non-sparking tools and equipment. Prevent formation of aerosols. Residual traces can wipe out. In case of spillage of liquid product: cover discharges. Check incompatibility for container material in section 7. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

#### 6.4 Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

### 7. HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Ensure that there is an adequate earthing system for the equipment and personnel. Avoid contact with eyes and skin. Do not breathe powders, vapours or mists. Do not eat, drink or smoke during use. Wash hands after use. Avoid leakage of the product into the environment.

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

Store only in the original container. Store in a ventilated and dry place, far away from sources of ignition. Keep containers well sealed. Keep the product in clearly labeled containers. Avoid overheating. Avoid violent blows. Keep containers away from any incompatible materials, see section 10 for details.

#### 7.3 Specific end use(s)

It is recommended to refer to the identified uses and exposure scenarios.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### 8.1 Control parameters

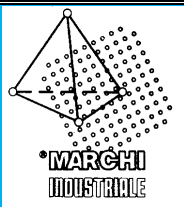
Regulatory References:

BEL	Belgique	AR du 11/3/2002. La liste est mise à jour pour 2010
ESP	España	INSHT - Límites de exposición profesional para agentes químicos en España 2015
FRA	France	JORF n°0109 du 10 mai 2012 page 8773 texte n° 102
GRB	United Kingdom	EH40/2005 Workplace exposure limits
IRL	Éire	Code of Practice Chemical Agent Regulations 2011
	TLV-ACGIH	ACGIH 2014

#### SODIUM BISULPHITE

##### Threshold Limit Value.

Type	Country	TWA/8h mg/m <sup>3</sup>	ppm	STEL/15min mg/m <sup>3</sup>	ppm
VLEP	BEL	5			
VLA	ESP	5			
VLEP	FRA	5			
WEL	GRB	5			
OEL	IRL	5			
TLV-ACGIH		5			



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Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

### 8.2 Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

If the product may or must come into contact or react with acids, suitable technical and/or organizational measures should be taken to prevent the development of toxic and/or inflammable gases.

#### HAND PROTECTION

In the case of prolonged contact with the product, protect the hands with penetration-resistant work gloves (see standard EN 374).

Work glove material must be chosen according to the use process and the products that may form. Latex gloves may cause sensitivity reactions.

#### SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

#### EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

In the presence of risks of exposure to splashes or squirts during work, adequate mouth, nose and eye protection should be used to prevent accidental absorption.

#### RESPIRATORY PROTECTION

None required, unless indicated otherwise in the chemical risk assessment.

#### ENVIRONMENTAL EXPOSURE CONTROLS.

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

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

Appearance:	Liquid
Odour:	characteristic
pH	5,7-5,9
Melting/Freezing temperature:	Not available
Boiling temperature:	Not available
Flash-point:	Not relevant as the substance is an inorganic liquid.
Flammability:	Non flammable (based on molecular structure)
Explosive properties:	Not explosive
Oxidizing properties:	Not oxidising
Vapour pressure:	Not available
Relative density (D4 (20)):	1,3 g/cm <sup>3</sup> a temperatura ambiente
Solubility in water:	>420 g/l a 20°C
Partition coefficient	Not relevant as the substance is inorganic, but considered to be low (based on high water



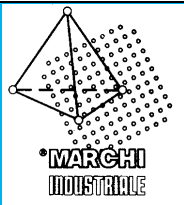
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n-octanol/water:	solubility)
Auto-ignition temperature	Study scientifically unjustified
Viscosity:	Study scientifically unjustified being present only in liquid form which crystallizes in case of excessive concentration
<b>9.2 Other information</b>	
molecular weight 104.06	
<b>10. STABILITY AND REACTIVITY</b>	
<b>10.1 Reactivity</b>	
Stable under recommended storage and handling conditions (see section 7, handling and storage).	
<b>10.2 Chemical stability</b>	
Stable under recommended storage and handling conditions (see section 7, handling and storage).	
<b>10.3 Possibility of hazardous reactions</b>	
Possibility of hazardous reactions	
If heated : decomposition products containing sulfur	
<b>10.4 Conditions to avoid</b>	
It decomposes when heated . Avoid encroachment and contamination with combustible materials	
<b>10.5 Incompatible materials</b>	
Reducing agents , strong acids and bases , metal powders , combustible materials , chrome , zinc , copper and copper alloys , chlorates	
<b>10.6 Hazardous decomposition products</b>	
Hazardous decomposition products should not be produced under normal conditions of storage and use .	
In case of fire , fumes of sulfur (S )	
<b>11. TOXICOLOGICAL INFORMATION</b>	
<b>11.1 Information on toxicological effects</b>	
Acute effects: ingestion of this product is harmful. Even small amounts of product may cause serious health problems (stomach pain, nausea, sickness, diarrhoea).	
This product generates toxic harmful gases upon contact with acids.	
<b>ACUTE TOXICITY</b>	
Acute oral toxicity:	LD <sub>50</sub> : >2610 mg/kg bw (rat)
Acute dermal toxicity:	LD <sub>50</sub> : >2000 mg/kg bw (rat)
Acute inhalation toxicity:	LC <sub>50</sub> : >5,5 mg/l
<b>LOCAL EFFECTS</b>	
Inhalation irritation:	non-irritating
Skin irritation:	non-irritating
Eye irritation:	non-irritating
Corrosivity	Based on available data the classification criteria are not met
Skin sensitization:	non-irritating
<b>OTHER</b>	
Repeated dose toxicity	Oral NOAEL 1045 mg / kg body weight per day - DNEL ( workers ) 246 mg / m <sup>3</sup> - ( general population ) 9.5 mg / kg body weight
Reproductive toxicity	Negative (studies with similar substances)
Mutagenicity:	Negative (studies with similar substances)
Carcinogenicity:	Negative (studies with similar substances)
<b>12. ECOLOGICAL INFORMATION</b>	
<b>12.1 Toxicity</b>	
Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or sewers or contaminate soil or vegetation.	
Fish (short-term):	96-h LC <sub>50</sub> : 150 mg/l
Fish (long-term):	NOEC 34 days >316 mg/l – EC <sub>10</sub> /LC <sub>10</sub> 50 mg/l
Daphnia magna (short-term):	48-h EC <sub>50</sub> : 75 mg/l
Daphnia magna (long-term):	21 days EC <sub>10</sub> : 8,5 mg/l



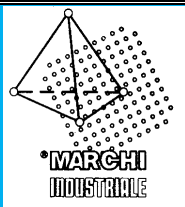
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Algae:	72 h EC <sub>50</sub> : > 37 mg/l					
PNEC	Flowing water 1.09 mg / L; Seawater 0.11 mg / L					
<b>12.2 Persistence and degradability</b>						
Biodegradation:	Test cannot be performed because the substance is inorganic					
Hydrolysis:	There are not hydrolysable groups, completely dissociates into ions					
<b>12.3 Bioaccumulative potential</b>						
Partition coefficient n-octanol/water:	Not relevant as the substance is inorganic, but considered to be low (based on high water solubility)					
Bioconcentration factor (BCF):	Low bioaccumulation potential					
<b>12.4 Mobility in soil</b>						
Adsorption coefficient:	Low potential for absorption					
<b>12.5 Results of PBT and vPvB assessment</b>						
Being inorganic substance, as stability in Annex XIII of EC Regulation 1907/2006, no PBT and vPvB evaluation has been made						
<b>12.6. Other adverse effects.</b>						
Information not available.						
<b>13. DISPOSAL CONSIDERATIONS</b>						
<b>13.1. Waste treatment methods.</b>						
Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations. Disposal must be performed through an authorized waste management firm, in compliance with national and local regulations. CONTAMINATED PACKAGING Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.						
<b>14. TRANSPORT INFORMATION</b>						
Regole internazionali sul trasporto						
	<b>REGOLAMENTI</b>	<b>Numero UN</b>	<b>nome</b>	<b>classe</b>	<b>Gruppo d'imballaggio</b>	<b>Etichetta</b>
	Classe ADR/RID	N/A				
	Classe ADNR	N/A				
	classe IMDG	N/A				
	classe IATA	N/A				
Trasporto rinfusa secondo l'allegato II del MARPOL 79/78 ed il codice IBC						
N/A						
<b>15. REGULATORY INFORMATION</b>						
15.1 Safety, health and environmental regulation/legislation specific for the substance or mixture:	Dlgs 152/2006 s.m.i.; DLgs 81/2008 s.m.i.- Regolamento (CE) n°1907/2006 (REACH); Decreto Legislativo 26 Giugno 2015, n°105 (Seveso TER)					
15.2 Chemical safety assessment:	Chemical Safety Assessments have been carried out for these substances.					
<b>16. OTHER INFORMATION</b>						
Text of hazard (H) indications mentioned in section 2-3 of the sheet:						
<b>Acute Tox. 4</b>	Acute toxicity, category 4					
<b>H302</b>	Harmful if swallowed.					
<b>EUH031</b>	Contact with acids liberates toxic gas.					
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 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 proceed, unless specified in the text.						



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In accordance with Regulation (EC) 1907/2006 (REACH), Annex II

**SODIUM BISULPHITE**

Acronyms and abbreviations

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

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