

SAFETY DATA SHEET
Sodium Bisulphite 23%

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Issued: 18/08/2026
Revision No: 3

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product identifier:

Product Name: SODIUM BISULPHITE SOLUTION 15 - 45 %
Index No: 016-064-00-8
EC Number: 231-548-0
CAS No: 7631-90-5
Synonyms: DECHLORINATION SOLUTION, VO-REDOX 9120, GENESYS RED, SODIUM BISULPHITE SOLUTION 15%, SOD BISULPHITE 20% SOL, SOD BISULPHITE 38/40% SOL, SODIUM BISULPHITE SOLUTION 17%, SODIUM BISULPHITE 25% SOLUTION, SODIUM BISULPHITE 18% SOLUTION, SODIUM BISULPHITE SOLUTION 39%, SODIUM BISULPHITE SOLUTION 45%, SODIUM BISULPHITE SOLUTION 30%, SODIUM BISULPHITE 35 - 45%, SODIUM BISULPHITE 23% SOLUTION, SOD BISULPHITE FG 23% SOL, SODIUM BISULPHITE 23% FG, SOD BISULPHITE 20% FCC ED.7, COBALT CATALYSED SODIUM BISULPHITE SOLUTION, STEAMCARE B10, SODIUM BISULPHITE 40% FCC ED.7, SODIUM BISULPHITE 40%, SOD BISULPHITE 20% SOL, HYDREX 9540, SOD BISULPHITE 27% SOL, SOD BISULPHITE 32%, BISULPHITE SODIUM 38-40 FG PVS, BISULPHITE SDE FG
Pure substance/mixture: Substance
Contains: SODIUM BISULPHITE%

Relevant identified uses of the substance or mixture and uses advised against:

Recommended use: Food/Feed additive
Industrial application
Reducing agents
Professional use
Whitening agent

For further information, see attached Exposure Scenario.

Details of the supplier of the safety data sheet:

Company name: Nexchem Ltd
Unit 3 Barshaw Park
Leycroft Road
Leicester
LE4 1ET
Tel: 0116 2311130
24/7 Emergency Tel: 0800 246 1274
Email: sales@nexchem.co.uk

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2. HAZARDS IDENTIFICATION

Classification of the substance or mixture:

Acute toxicity – Oral: Category 4 - (H302)

Label elements:

Contains: SODIUM BISULPHITE%



Signal word: Warning

Hazard statements:
H302 - Harmful if swallowed
EUH031 - Contact with acids liberates toxic gas

Precautionary statements:
P264 - Wash face, hands and any exposed skin thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell
P330 - Rinse mouth
P501 - Dispose of contents/ container to an approved waste disposal plant

Additional information: This product requires tactile warnings if supplied to the general public.

Other hazards: No information available.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substances:

Chemical name	Weight-%	EC No. (EU Index No.)	UK REACH reg No.	Classification according to GB CLP (SI 2020/1567 as amended)	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
SODIUM BISULPHITE% 7631-90-5	>=30 - <40%	231-548-0 (016-064-00-8)	-	Acute Tox. 4 (H302)	-	-	-

Full text of H- and EUH-phrases: See section 16

This product does not contain candidate substances of very high concern at a concentration >= 0.1% (UK REACH Article 59).

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4. FIRST AID MEASURES

Description of first aid measures:

General advice:	Show this safety data sheet to the doctor in attendance.
Inhalation:	General first aid, rest, warmth and fresh air. Get medical attention if symptoms occur.
Eye contact:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Skin contact:	IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and shoes immediately. Get medical attention if symptoms occur.
Ingestion:	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Call a doctor.

Most important symptoms and effects, both acute and delayed:

Eyes:	May cause temporary eye irritation.
Dermal:	Prolonged contact may cause redness and irritation.

Indication of any immediate medical attention and special treatment needed:

Note to doctors:	Treat symptomatically.
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5. FIRE-FIGHTING MEASURES

Extinguishing media:

Suitable extinguishing media:	Carbon dioxide (CO ₂). Dry chemical. Water spray.
Large Fire:	CAUTION: Use of water spray when fighting fire may be inefficient.
Unsuitable extinguishing media:	Do not scatter spilled material with high pressure water streams.

Special hazards arising from the substance or mixture:

Specific hazards arising from the chemical: Sulphur dioxide. Oxides of sulphur.

Advice for firefighters:

Special protective equipment and precautions for fire-fighters:

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Remove undamaged containers from fire area if it is safe to do so. Collect contaminated fire extinguishing water separately. Do not allow it to enter drains or surface water. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Personal precautions:	Wear suitable protective clothing. Evacuate personnel to safe areas.
For emergency responders:	Use personal protection recommended in Section 8.

Environmental precautions:	Do not allow to enter into soil/subsoil. Keep out of drains, sewers, ditches and waterways. Local authorities should be advised if significant spillages cannot be contained.
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Methods and material for containment and cleaning up:

Methods for containment: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

Methods for cleaning up: Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

Prevention of secondary hazards: Clean contaminated objects and areas thoroughly observing environmental regulations.

Reference to other sections: See section 8 for more information. See section 13 for more information.

7. HANDLING AND STORAGE

Precautions for safe handling:

Advice on safe handling: Avoid contact with skin, eyes and inhalation of vapours. Don't use empty container before they have been cleaned. Before making transfer operations, assure that there aren't any incompatible material residuals in the containers. Use personal protection recommended in Section 8.

General hygiene considerations: Do not eat, drink or smoke when using the product. Remove contaminated clothing and protective equipment before entering eating areas. Take off all contaminated clothing and wash it before reuse. Wash hands and face before breaks and immediately after handling the product. Contaminated work clothing should not be allowed out of the workplace.

Conditions for safe storage, including any incompatibilities:

Storage Conditions: Keep away from food, drink and animal feeding stuffs. Keep in properly labelled containers. Avoid contact with acids and oxidising substances. See section 10 for more information. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.

Specific end use(s): See section 1 for more information.

Risk Management Methods (RMM): The information required is contained in this Safety Data Sheet.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters:

Exposure Limits:

Chemical name	United Kingdom
SODIUM BISULPHITE% 7631-90-5	TWA: 5 mg/m ³ STEL: 15 mg/m ³

Biological occupational exposure limits:

This product, as supplied, does not contain any hazardous materials with biological limits established by the region-specific regulatory bodies.

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Derived No Effect Level (DNEL) – Workers:

Chemical name	Oral	Dermal	Inhalation
SODIUM BISULPHITE% 7631-90-5			246 mg/m ³ [4] [6]

[4] Systemic health effects.

[6] Long term.

Derived No Effect Level (DNEL) - General Public:

Chemical name	Oral	Dermal	Inhalation
SODIUM BISULPHITE% 7631-90-5			73 mg/m ³ [4] [6]

[4] Systemic health effects.

[6] Long term

Predicted No Effect Concentration (PNEC):

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
SODIUM BISULPHITE....% 7631-90-5	1.09 mg/l		0.11 mg/l		

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
SODIUM BISULPHITE....% 7631-90-5			82.5 mg/l		

Exposure controls:

Engineering controls: Ensure adequate ventilation.

Personal protective equipment:

Eye/face protection: Wear safety glasses with side shields (or goggles). Use eye protection according to EN 166.

Hand protection: Wear suitable gloves. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves.
Gloves must conform to standard EN 374.

Gloves			
Duration of contact	PPE – Glove material	Glove thickness	Break through time
Long term (repeated)	Nitrile/butadiene rubber ("nitrile" or "NBR")	0.4mm	>480 minutes

Skin and body protection: Wear appropriate clothing to prevent reasonably probable skin contact. EN13034. Cotton protective clothing and shoes that cover the entire foot (EN 20345).

Respiratory protection: In case of inadequate ventilation wear respiratory protection.

Recommended filter type: Filtering Half-face mask (DIN EN 149). Particulate filter, type P2. Dust filter P3 (for especially fine dust/powder).

General hygiene considerations: Do not eat, drink or smoke when using the product. Remove contaminated clothing and protective equipment before entering eating areas. Take off all contaminated clothing and wash it before reuse. Wash hands and face before breaks and immediately after handling the product. Contaminated work clothing should not be allowed out of the workplace.

Environmental exposure controls: Local authorities should be advised if significant spillages cannot be contained. [cont...]

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9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

Physical state:	Liquid
Appearance:	Liquid
Colour:	Light yellow, yellow-orange
Odour:	Pungent
Odour threshold:	No information available

Property	Values	Remarks • Method
Melting point / freezing point		No information available
Initial boiling point & boiling range	98 - 105°C	
Flammability		No information available
Flammability Limit in Air		No information available
Upper flammability or explosive limits		
Lower flammability or explosive limits		
Flash point		No information available
Autoignition temperature		No information available
Decomposition temperature		No information available
pH	3.5 - 4.5	
pH (as aqueous solution)		No information available
Kinematic viscosity		No information available
Dynamic viscosity		
Water solubility	Soluble in water	
Solubility(ies)		No information available
Partition coefficient		No information available
Vapour pressure		No information available
Relative density	1.30 - 1.35 Kg/dm ³	
Bulk density		No information available
Liquid Density	No information available	No information available
Relative vapour density		No information available
Particle characteristics		No information available
Particle Size	No information available	
Particle Size Distribution	No information available	
Explosive properties	No information available	
Oxidising properties:	No information available	
Other information:		

10. STABILITY AND REACTIVITY

Reactivity: Stable under normal conditions.

Chemical stability:

Stability: Stable under normal conditions.

Explosion data:

Sensitivity to mechanical impact: None

Sensitivity to static discharge: None

[cont...]

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Possibility of hazardous reactions: None under normal processing.

Conditions to avoid: None known based on information supplied.

Incompatible materials: Acids. Oxidising agents.

Hazardous decomposition products: Thermal decomposition can lead to release of irritating and toxic gases and vapours.
Oxides of sulphur.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects:

Information on likely routes of exposure:

Product Information:

Eye contact: Specific test data for the substance or mixture is not available.

Skin contact: Specific test data for the substance or mixture is not available.

Ingestion: Specific test data for the substance or mixture is not available. Harmful if swallowed.
(based on components).

Symptoms related to the physical, chemical and toxicological characteristics:

Symptoms: No information available.

Acute toxicity:

Numerical measures of toxicity:

Component Information:

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
SODIUM BISULPHITE...%	> 1540 mg/kg (Rat)	> 2000 mg/kg	> 5.5 mg/l

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

Skin corrosion/irritation: Based on available data the classification criteria are not met.

Serious eye damage/eye irritation: Based on available data the classification criteria are not met.

Respiratory or skin sensitisation: Based on available data the classification criteria are not met.

Germ cell mutagenicity: Based on available data the classification criteria are not met.

Carcinogenicity: Based on available data the classification criteria are not met.

Reproductive toxicity: Based on available data the classification criteria are not met.

STOT - single exposure: Based on available data the classification criteria are not met.

STOT - repeated exposure: Based on available data the classification criteria are not met.

Aspiration hazard: Based on available data the classification criteria are not met.

Other adverse effects: No information available.

[cont...]

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12. ECOLOGICAL INFORMATION

Toxicity:

Ecotoxicity: Not considered to be harmful to aquatic life.

SODIUM BISULPHITE% (7631-90-5):

Method	Species	Endpoint type	Effective dose	Exposure time	Results
	Oncorhynchus mykiss (rainbow trout)	LC50	149.5 mg/L	96 hours	
	Daphnia magna	EC50	74.9 mg/L	48 hours	
	Scenedesmus Subspicatus	EC50	36.8 mg/L	72 hours	
	Daphnia magna	NOEC	8.41 mg/L	21 days	
	Scenedesmus subspicatus	EC10	28 mg/L	72 hours	
OECD Test No. 210: Fish, Early-Life Stage Toxicity Test	Brachydanio rerio	NOEC	50 mg/L	34 days	

Persistence and degradability: Not readily biodegradable.

Bioaccumulative potential:

Bioaccumulation: There is no data for this product.

Mobility in soil: No information available.

Results of PBT and vPvB assessment:

PBT and vPvB assessment: The product does not contain any substance(s) classified as PBT or vPvB.

Chemical name	PBT and vPvB assessment
SODIUM BISULPHITE...%	The substance is not PBT/vPvB

Other adverse effects: No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods:

Waste from residues/unused products: Dispose of in accordance with local regulations.

Dispose of waste in accordance with environmental legislation.

Contaminated packaging: Do not reuse empty containers.

14. TRANSPORT INFORMATION

IATA:

UN number or ID number: Not regulated

UN proper shipping name: Not regulated

Transport hazard class(es): Not regulated

Packing group: Not regulated

Environmental hazards: No

Special precautions for user:

Special Provisions: None

[cont...]

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IMDG:

UN number or ID number: Not regulated
UN proper shipping name: Not regulated
Transport hazard class(es): Not regulated
Packing group: Not regulated
Environmental hazards: No
Special precautions for user:
Special Provisions: None
Maritime transport in bulk according to IMO instruments: No information available

RID:

UN number or ID number: Not regulated
UN proper shipping name: Not regulated
Transport hazard class(es): Not regulated
Packing group: Not regulated
Environmental hazards: No
Special precautions for user:
Special Provisions: None

ADR:

UN number or ID number: Not regulated
UN proper shipping name: Not regulated
Transport hazard class(es): Not regulated
Packing group: Not regulated
Environmental hazards: No
Special precautions for user:
Special Provisions: None

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture:

National regulations:

Authorisations and/or restrictions on use:

This product contains one or more substances subject to restriction (UK REACH - Annex XVII).

This product does not contain substances subject to authorisation (UK REACH - Annex XIV).

Product restricted per REACH Annex XVII: 3

Persistent Organic Pollutants: Not applicable

Export Notification requirements: Not applicable

Named dangerous substances per COMAH Regulations 2015 (as amended): Not applicable

The Ozone-Depleting Substances Regulations 2015: Not applicable

The Biocidal Products Regulations 2001 (as amended): Not applicable

The Water Environment (Water Framework Directive) (England and Wales) Regulations 2017 (as amended): Not applicable

Poisons Act 1972 (Explosive Precursors) Regulations (as Amended): Not applicable

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International Inventories:

TSCA:	Contact supplier for inventory compliance status
DSL/NDSL:	Contact supplier for inventory compliance status
EINECS/ELINCS:	Contact supplier for inventory compliance status
ENCS:	Contact supplier for inventory compliance status
IECSC:	Contact supplier for inventory compliance status
KECI:	Contact supplier for inventory compliance status
PICCS:	Contact supplier for inventory compliance status
AIIC:	Contact supplier for inventory compliance status
NZIoC:	Contact supplier for inventory compliance status

Legend:

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
AIIC	Australian Inventory of Industrial Chemicals
NZIoC	New Zealand Inventory of Chemicals

Chemical safety assessment:

Chemical Safety Report: No information available

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

Key or legend to abbreviations and acronyms used in the safety data sheet:

Full text of H-Statements referred to under section 3:

H302 Harmful if swallowed

Legend:

SVHC: Substances of Very High Concern for Authorisation

Legend:

Section 8: Exposure controls/personal protection:

TWA	TWA (time-weighted average)
STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value
*	Skin designation
+	Sensitisers

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Legal disclaimer:

The information contained in this SDS does not constitute a risk assessment, and should not replace the user's own assessment of risks as required by other health and safety legislation. This advice is given by Nexchem Ltd who accept no legal liability for it except otherwise provided by law. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.