

Sodium Sulphite (Anhydrous)

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name:	Sodium Sulphite
CAS Number:	7757-83-7
EC Number:	231-821-4
Registration number	01-2119537420-49

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

Product use:	Photographic industry; Textile/Leather industry; Rubber/Plastic industry; Paper and pulp industry/Bleaching; Food industry (processing aid for fructose and sugar production, starch industry); Water treatment/Mining / Offshore/Metal industry/Surface treatment); Additive for cement; Industrial use of sodium sulfite in cosmetic industry; use as an intermediate.
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Product category

PC1 Adhesives, sealants
PC2 Adsorbents
PC3 Air care products
PC4 Anti-Freeze and de-icing products
PC7 Base metals and alloys
PC8 Biocidal products
PC9a Coatings and paints, thinners, paint removers
PC9b Fillers, putties, plasters, modelling clay
PC13 Fuels
PC14 Metal surface treatment products
PC15 Non-metal-surface treatment products
PC17 Hydraulic fluids
PC18 Ink and toners
PC19 Intermediate
PC20 Processing aids such as pH-regulators, flocculants, precipitants, neutralization agents
PC23 Leather treatment products
PC24 Lubricants, greases, release products
PC25 Metal working fluids
PC26 Paper and board treatment products
PC28 Perfumes, fragrances
PC30 Photo-chemicals
PC31 Polishes and wax blends
PC32 Polymer preparations and compounds
PC34 Textile dyes, and impregnating products
PC35 Washing and cleaning products (including solvent based products)

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PC37 Water treatment chemicals
 PC38 Welding and soldering products, flux products
 PC39 Cosmetics, personal care products
 PC40 Extraction agents

Article category

AC5 Fabrics, textiles and apparel
 AC01 Other (not intended to be released)

Application of the substance / the mixture

The product has many industrial, professional and consumer applications.
 It is also used in food processing (221: preservative/antioxidant).

Uses advised against

Any use involving significant release of aerosol, vapour or dust in the breathing zone of workers where they are exposed without suitable respiratory protective equipment (RPE).
 Processes involving extreme heat use advised against.
 Processes involving the use of incompatible substances - refer to section 10.

1.3 Details of the supplier of the safety data sheet

Company name:	East Harbour Group Ltd 20 Clough Road, Severalls Industrial Park Colchester, Essex, CO4 9QS United Kingdom
Telephone:	+44 (0) 333 242 0100
Email:	info@eastharbourgroup.com

1.4 Emergency telephone number

Emergency telephone: 0800 246 1274

Section 2: Hazardous identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

The substance is not classified, according to the CLP regulation.

2.2 Label elements

Hazard pictograms	Void
Signal word	Void
Hazard statements	Void

2.3 Other hazards

Results of PBT and vPvB assessment

- PBT: Not applicable.
- vPvB: Not applicable.

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Section 3: Composition/information on ingredients

3.1 Substances

CAS No.	Description
7757-83-7	Sodium sulphite
Identification number(s)	
EC number:	231-821-4
Additional information:	
CAS 10102-15-5:	heptahydrate
CAS 7757-83-7:	anhydrous

Section 4: First aid measures

4.1 Description of first aid measures

General information: Immediately remove any clothing soiled by the product.

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact:

Immediately rinse with water.

If skin irritation continues, consult a doctor.

After eye contact:

Check for and remove any contact lenses.

Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing:

Wash mouth out with water

Call a doctor immediately.

If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

Induce vomiting. Seek a medical examination immediately and present the safety-data sheet.

A suspension of activated charcoal in water, or liquid paraffin may be administered.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

Section 5: Fire-fighting measures

5.1 Fire Fighting Media and Instructions:

Suitable extinguishing agents:

Use fire extinguishing methods suitable to surrounding conditions.

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5.2 Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.
Not combustible. Gives off irritating or toxic fumes (or gases) in a fire.

5.3 Advice for firefighters

Protective equipment:

Wear self-contained respiratory protective device.
Wear fully protective suit.
Do not inhale explosion gases or combustion gases.

Additional information

Cool endangered receptacles with water spray.
Non-combustible substance.
Freely soluble in water

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid formation of dust.
Ensure adequate ventilation.

6.2 Environmental precautions:

Do not allow to enter sewers/ surface or ground water.
Do not allow to penetrate the ground/soil.

6.3 Methods and material for containment and cleaning up:

Pick up mechanically.
Send for recovery or disposal in suitable receptacles.

6.4 Reference to other sections:

No dangerous substances are released.

Section 7: Handling and storage

7.1 Precautions for safe handling

Prevent formation of dust.
Ensure good ventilation/exhaustion at the workplace.
Ensure high housekeeping standards to remove build of dust.
Do not mix with acids.

Information about fire - and explosion protection:

Protect from heat.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

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Requirements to be met by storerooms and receptacles:

Store in a cool location.
Prevent any seepage into the ground.

Information about storage in one common storage facility:

Store away from foodstuffs.
Do not store together with acids.

Further information about storage conditions:

Store in a bunded area.
Store in cool, dry conditions in well-sealed receptacles.

7.3 Specific end use(s)

No further relevant information available.

Section 8: Exposure controls/personal protection

Additional information about design of technical facilities: No further data; see item 7.

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace: Not required.

DNELs**WORKERS**

Long-term exposure - systemic effects
Inhalation DN(M)EL
DNEL (Derived No Effect Level): 298 mg/m³

GENERAL POPULATION

Long-term exposure - systemic effects
Inhalation DN(M)EL
DNEL (Derived No Effect Level): 88 mg/m³
Oral DN(M)EL
DNEL (Derived No Effect Level): 11 mg/kg bw/day

PNECs

PNEC aqua (freshwater): 1.33 mg/L
PNEC aqua (marine water): 0.13 mg/L
PNEC STP: 99.9 mg/L
PNEC sediment (freshwater): No exposure of sediment expected
PNEC sediment (marine water): No exposure of sediment expected
PNEC soil: No exposure of soil expected
PNEC oral: No potential for bioaccumulation

Additional information:

The lists valid during the making were used as basis.

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8.2 Exposure controls

Personal protective equipment:

General protective and hygienic measures:

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid close or long-term contact with the skin.

Do not eat, drink, smoke or sniff while working.

Do not breath dust.

Ensure that eyewash stations and safety showers are close to the workstation location.

Respiratory protection:

Use suitable respiratory protective device in case of insufficient ventilation.

Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.

Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
P.V.C., neoprene or rubber

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Safety glasses

Body protection:

Protective work clothing

Body protection must be chosen depending on product properties, activity and possible exposure.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:

Form: Solid

Colour: White

Odour: Odourless

pH-value (50 g/l) at 20 °C: 8.8 - 10

Change in condition

Melting point/freezing point: 617 (decomp) °C

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Undetermined.

Initial boiling point and boiling range: Undetermined.

Flash point: Not applicable.

Flammability (solid, gas): Product is not flammable.

Explosive properties: Product does not present an explosion hazard.

Density at 20 °C: 2.6 g/cm³

Solubility in / Miscibility with water: Easily soluble.

9.2 Other information

No further relevant information available.

Section 10: Stability and Reactivity

10.1 Reactivity

No further relevant information available.

10.2 Chemical stability

Thermal decomposition / conditions to be avoided:

The substance decomposes on heating and on burning producing toxic and corrosive fumes (sulphur oxides).

10.3 Possibility of hazardous reactions

The substance is a strong reducing agent and reacts with oxidants.

Reacts with strong acids to produce toxic sulphur dioxide.

10.4 Conditions to avoid

No further relevant information available.

10.5 Incompatible materials:

Strong oxidising agents.

Strong acids.

Organic solvents.

Combustible materials.

10.6 Hazardous decomposition products:

Sulphur oxides (SO_x)

Sodium sulphite

Sodium sulphate

Sodium oxide

Additional information:

Non-combustible substance.

Freely soluble in water

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Section 11: Toxicological Information

11.1 Information on toxicological effects:

Acute toxicity

Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:

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Oral	LD50	>2000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rat)
Inhalative	LC50/4 h	>5 mg/l (rat)

Primary irritant effect:

Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Serious eye damage/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.

Additional toxicological information:

ROUTES OF EXPOSURE: The substance can be absorbed into the body by inhalation (of solution mist or dust) and by ingestion.

Repeated or prolonged inhalation exposure may cause asthma.

The symptoms of asthma often do not become manifest until a few hours have passed and they are aggravated by physical effort. Rest and medical observation are therefore essential. Anyone who has shown symptoms of asthma due to this substance should avoid all further contact with this substance.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

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.

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Section 12: Ecological Information

12.1 Toxicity

Aquatic toxicity:

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EC50 89 mg/kg (daphnia)

12.2 Persistence and degradability

No further relevant information available.

12.3 Bioaccumulative potential

Product is not expected to bioaccumulate.

12.4 Mobility in soil No further relevant information available.

Additional ecological information:

General notes:

Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects

No further relevant information available.

Section 13: Disposal considerations

13.1 Waste treatment methods

Recommendation

Recommended Hierarchy of Controls:

Minimise waste;

Reuse if not contaminated;

Recycle, if possible; or

Safe disposal (if all else fails).

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Contact waste processors for recycling information.

Used, degraded or contaminated product may be classified as hazardous waste. Anyone classifying hazardous waste and determining its fate must be qualified in accordance with state and international legislation.

European waste catalogue

Waste key numbers in accordance with the European Waste Catalogue (EWC) are origin-referred defined.

Since this product is used in several industries, no waste key can be provided by the supplier. The waste key number should be determined in arrangement with your waste disposal partner or the responsible authority.

Uncleaned packaging:

Recommendation:

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Container remains hazardous when empty. Continue to observe all precautions.
Do not mix with other waste streams.
Disposal must be made according to official regulations.

Section 14: Transport Information

14.1 UN number ADR, ADN, IMDG, IATA

14.2 UN proper shipping name ADR, ADN, IMDG, IATA

14.3 Transport hazard class(es)
ADR, ADN, IMDG, IATA
Class Void

14.4 Packing group ADR, IMDG, IATA

14.5 Environmental hazards: Marine pollutant: No

14.6 Special precautions for user

Annex II of Marpol and the IBC Code

Section 15: Production Information

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

15.2 Chemical safety assessment

Section 16: Other Information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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Department issuing SDS:

Product safety department.

Abbreviations and acronyms:

ADR:	Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG:	International Maritime Code for Dangerous Goods
IATA:	International Air Transport Association
GHS:	Globally Harmonised System of Classification and Labelling of Chemicals
EINECS:	European Inventory of Existing Commercial Chemical Substances
CAS:	Chemical Abstracts Service (division of the American Chemical Society)
DNEL:	Derived No-Effect Level (REACH)
PNEC:	Predicted No-Effect Concentration (REACH)
LC50:	Lethal concentration, 50 percent
LD50:	Lethal dose, 50 percent
PBT:	Persistent, Bioaccumulative and Toxic
vPvB:	very Persistent and very Bioaccumulative