

Safety data sheet

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BASF Safety data sheet according to Regulation UK SI 2019/758 and UK SI 2020/1577 as amended from time to time.

Date / Revised: 16.10.2024

Version: 11.0

Date / Previous version: 11.01.2023

Previous version: 10.0

Product: **Sodium Bisulfite Solution 38-40% non food grade**

(ID no. 30042368/SDS_GEN_GB/EN)

Date of print 17.10.2025

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

1.1. Product identifier

Sodium Bisulfite Solution 38-40% non food grade

UFI: R4XE-J0P2-X00Y-307P

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

Relevant identified uses: Chemical

Recommended use: inorganic reducing agents, initial product for chemical syntheses, process chemical

For the detailed identified uses of the product see appendix of the safety data sheet.

1.3. Details of the supplier of the safety data sheet

Company:

BASF SE
67056 Ludwigshafen
GERMANY

Contact address:

BASF plc
4th and 5th Floors, 2 Stockport Exchange
Railway Road, Stockport, SK1 3GG
UNITED KINGDOM

Telephone: +44 161 475 3000

E-mail address: product-safety-uk-and-ireland@basf.com

1.4. Emergency telephone number

International emergency number:

Telephone: +49 180 2273-112

SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture

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For the classification of the mixture the following methods have been applied: extrapolation on the concentration levels of the hazardous substances, on basis of test results and after evaluation of experts. The methodologies used are mentioned at the respective test results.

According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567

Acute Tox. 4 (oral) H302 Harmful if swallowed.

For the classifications not written out in full in this section the full text can be found in section 16.

2.2. Label elements

According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567

Pictogram:



Signal Word:
Warning

Hazard Statement:
H302 Harmful if swallowed.

Precautionary Statements (Prevention):
P270 Do not eat, drink or smoke when using this product.
P264 Wash contaminated body parts thoroughly after handling.

Precautionary Statements (Response):
P312 Call a POISON CENTER or physician if you feel unwell.
P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

Precautionary Statements (Disposal):
P501 Dispose of contents and container to hazardous or special waste collection point.

Labeling of special preparations (GHS):
EUH031: Contact with acids liberates toxic gas.

Hazard determining component(s) for labelling: sodium hydrogensulphite (aqueous solution)

2.3. Other hazards

According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567

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No specific dangers known, if the regulations/notes for storage and handling are considered.

The product does not contain a substance above legal limits fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

SECTION 3: Composition/Information on Ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Chemical nature

aqueous solution, sodium hydrogensulphite ... %
NaHSO₃

Hazardous ingredients (GHS)

sodium hydrogensulphite ... %

Content (W/W): $\geq 38\%$ - $\leq 42\%$ Acute Tox. 4 (oral)

CAS Number: 7631-90-5 H302

EC-Number: 231-548-0 EUH031

REACH registration number: 01-2119524563-42

INDEX-Number: 016-064-00-8

For the classifications not written out in full in this section, including the hazard classes and the hazard statements, the full text is listed in section 16.

SECTION 4: First-Aid Measures

4.1. Description of first aid measures

Immediately remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention. After inhalation of decomposition products: Immediately administer a corticosteroid from a controlled/metered dose inhaler. Seek medical attention.

On skin contact:

Wash thoroughly with soap and water

On contact with eyes:

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Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11., Many individuals are sensitive to sulphite additives and may experience a range of symptoms, including dermatitis, urticaria, angio-oedema, abdominal pain, diarrhoea, bronchoconstriction and anaphylaxis.

Hazards: Risk of sulfur dioxide formation by reaction with gastric acid after swallowing.

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

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

SECTION 5: Fire-Fighting Measures

5.1. Extinguishing media

Suitable extinguishing media:

water spray, carbon dioxide, foam, dry powder

Additional information:

Product will not burn.

Use extinguishing measures to suit surroundings.

5.2. Special hazards arising from the substance or mixture

Endangering substances: sulphur dioxide

Advice: The substances/groups of substances mentioned can be released if the product is involved in a fire.

5.3. Advice for fire-fighters

Special protective equipment:

Wear self-contained breathing apparatus and chemical-protective clothing.

Further information:

Product itself is non-combustible; fire extinguishing method of surrounding areas must be considered. Contaminated extinguishing water must be disposed of in accordance with official regulations. In case of fire and/or explosion do not breathe fumes.

SECTION 6: Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

Breathing protection required.

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Avoid contact with the skin, eyes and clothing. Use personal protective clothing. Ensure adequate ventilation.

6.2. Environmental precautions

Do not discharge into drains/surface waters/groundwater. Do not discharge into the subsoil/soil. Retain and dispose of contaminated wash water.

6.3. Methods and material for containment and cleaning up

For small amounts: Pick up with suitable absorbent material.

For large amounts: Pump off product.

Dispose of absorbed material in accordance with regulations.

6.4. Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

SECTION 7: Handling and Storage

7.1. Precautions for safe handling

Use only in well-ventilated areas. Do not inhale vapours / aerosols. Avoid contact with skin and eyes. Breathing must be protected when large quantities are decanted without local exhaust ventilation.

Protection against fire and explosion:

The substance/product is non-combustible. No special precautions necessary.

7.2. Conditions for safe storage, including any incompatibilities

Segregate from acids and acid forming substances. Segregate from oxidants.

Suitable materials for containers: Polyester resin, glass reinforced (Palatal A410), rubberized, Stainless steel 1.4462, Stainless steel 1.4402 (V4A), Stainless steel 1.4404

Further information on storage conditions: Keep away from heat. Keep container tightly closed in a cool, well-ventilated place. Keep container dry. The product consumes oxygen. Danger of lack of oxygen in containers and tanks.

7.3. Specific end use(s)

See exposure scenario(s) in the attachment to this safety data sheet.

SECTION 8: Exposure Controls/Personal Protection

8.1. Control parameters

Components with occupational exposure limits

The substance mentioned develops if the regulation/notes for storage and handling are not observed.

| 7446-09-5: sulphur dioxide

TWA value 1.3 mg/m³ ; 0.5 ppm (WEL/EH 40 (UK))

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STEL value 2.7 mg/m³ ; 1 ppm (WEL/EH 40 (UK))

STEL value 2.7 mg/m³ ; 1 ppm (WEL/EH 40 (UK))

Ceiling limit value/factor: 15 min

7631-90-5: sodium hydrogensulphite ... %

TWA value 5 mg/m³ (WEL/EH 40 (UK))

Components with PNEC

7631-90-5: sodium hydrogensulphite ... %

freshwater: 1.09 mg/l

marine water: 0.11 mg/l

STP: 82.5 mg/l

Components with DNEL

7631-90-5: sodium hydrogensulphite ... %

worker: Long-term exposure- systemic effects, Inhalation: 246 mg/m³

consumer: Long-term exposure- systemic effects, Inhalation: 73 mg/m³

consumer: Long-term exposure- systemic effects, oral: 9.5 mg/kg

8.2. Exposure controls

Personal protective equipment

Respiratory protection:

Respiratory protection in case of release of decomposition products. Suitable respiratory protection for lower concentrations or short-term effect: Gas filter for gases/vapours of inorganic compounds (e.g. EN 14387 Type B) Suitable respiratory protection for higher concentrations or long-term effect: Self-contained breathing apparatus.

Hand protection:

Chemical resistant protective gloves (EN ISO 374-1)

Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1):

e.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinylchloride (0.7 mm) and other

Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.

Manufacturer's directions for use should be observed because of great diversity of types.

Eye protection:

Tightly fitting safety goggles (splash goggles) (e.g. EN 166)

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

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General safety and hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Do not breathe vapour/spray. Hands and/or face should be washed before breaks and at the end of the shift.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Form:	aqueous solution	
Colour:	colourless to yellow	
Odour:	pungent	
Odour threshold:	Not determined due to potential health hazard by inhalation.	
pH value:	3.5 - 5.0	(DIN 19268)
crystallization temperature:	< 5 °C	
Boiling point:	100 °C (1,013 mbar)	
	Information applies to the solvent.	
Flash point:	not applicable	
Evaporation rate:	Value can be approximated from Henry's Law Constant or vapor pressure.	
Flammability:	not flammable	
Lower explosion limit:	For liquids not relevant for classification and labelling.	
Upper explosion limit:	For liquids not relevant for classification and labelling.	
Ignition temperature:	not applicable	
Vapour pressure:	approx. 155 mbar (55 °C) approx. 124 mbar (50 °C) approx. 24 mbar (20 °C)	
	The vapour pressure of the aqueous solution consists of the partial pressure for water and the partial pressure for sulphur dioxide.	
	27 hPa (20 °C) 103 hPa (50 °C)	

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Density:	1.325 g/cm ³ (20 °C)	(DIN 51757)
Solubility in water:	approx. 515 g/l (20 °C)	
Solubility (quantitative) solvent(s):	Water approx. 515 g/l (20 °C)	
The values mentioned are those of the solved solid.		
<i>Information on: sodium hydrogensulphite ... %</i>		
<i>Partitioning coefficient n-octanol/water (log Kow):</i>		
<i>not applicable</i>		

Self ignition:	not self-igniting	Test type: Self-ignition at high temperatures.
	not self-igniting	Test type: Spontaneous self-ignition at room-temperature.
Thermal decomposition:	It is not a self-decompositionable substance.	
Viscosity, dynamic:	3.64 mPa.s (20 °C)	(DIN 51562)
Viscosity, kinematic:	not determined	
Explosion hazard:	Based on the chemical structure there is no indication of explosive properties.	
Fire promoting properties:	not fire-propagating	

9.2. Other information

Burning rate:	not applicable
pK _A :	not applicable
Adsorption/water - soil:	Study scientifically not justified.
Surface tension:	Based on chemical structure, surface activity is not to be expected.
Grain size distribution:	The substance / product is marketed or used in a non solid or granular form.

SECTION 10: Stability and Reactivity

10.1. Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

10.2. Chemical stability

The product is stable if stored and handled as prescribed/indicated.

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10.3. Possibility of hazardous reactions

Reacts with nitrites. Reacts with nitrates. Reacts with oxidizing agents. Generation of sulphur dioxide upon exposure to acids. (or conditions.) The product consumes oxygen.

10.4. Conditions to avoid

avoid atmospheric oxygen

10.5. Incompatible materials

Substances to avoid:

nitrites, nitrates, oxidizing agents, acids

10.6. Hazardous decomposition products

Hazardous decomposition products:

sulphur dioxide

SECTION 11: Toxicological Information

11.1. Information on toxicological effects

Acute toxicity

Experimental/calculated data:

LC50 rat (by inhalation): > 5.5 mg/l 4 h (OECD Guideline 403)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

LD50 rat (dermal): > 2,000 mg/kg (OECD Guideline 402)

No mortality was observed. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Information on: sodium hydrogensulphite ... %

Assessment of acute toxicity:

Of moderate toxicity after single ingestion. Virtually nontoxic by inhalation. Virtually nontoxic after a single skin contact.

Information on: sodium hydrogensulphite ... %

Experimental/calculated data:

LD50 rat (oral): approx. 2,610 mg/kg (similar to OECD guideline 401)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Irritation

Experimental/calculated data:

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Skin corrosion/irritation

rabbit: non-irritant (OECD Guideline 404)

Literature data.

Serious eye damage/irritation

rabbit: non-irritant (OECD Guideline 405)

Literature data.

Respiratory/Skin sensitization

Assessment of sensitization:

A sensitizing effect on particularly sensitive individuals cannot be excluded.

Experimental/calculated data:

Mouse Local Lymph Node Assay (LLNA) mouse: Non-sensitizing. (OECD Guideline 429)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Germ cell mutagenicity

Assessment of mutagenicity:

The substance was not mutagenic in a test with mammals.

Carcinogenicity

Assessment of carcinogenicity:

No reliable data was available concerning carcinogenic activity. The chemical structure does not suggest a specific alert for such an effect.

Reproductive toxicity

Assessment of reproduction toxicity:

The results of animal studies gave no indication of a fertility impairing effect.

Developmental toxicity

Assessment of teratogenicity:

No indications of a developmental toxic / teratogenic effect were seen in animal studies.

Experiences in humans

Experimental/calculated data:

With sensitive persons it can lead to an over sensitive reaction.

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Specific target organ toxicity (single exposure)

Assessment of STOT single:

Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:

No substance-specific organotoxicity was observed after repeated administration to animals. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Aspiration hazard

No aspiration hazard expected.

SECTION 12: Ecological Information

12.1. Toxicity

Assessment of aquatic toxicity:

Acutely harmful for aquatic organisms.

Chronic toxicity to fish:

No observed effect concentration (34 d) \geq 50 mg/l, *Brachydanio rerio* (OECD Guideline 210, Flow through.)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. Nominal concentration.

Chronic toxicity to aquatic invertebrates:

No observed effect concentration (21 d) $>$ 10 mg/l, *Daphnia magna* (OECD Guideline 211, semistatic)

Nominal concentration. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Information on: sodium hydrogensulphite ... %

Toxicity to fish:

*LC50 (96 h) 316 mg/l, *Leuciscus idus* (DIN 38412 Part 15, static)*

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. Nominal concentration.

Information on: sodium hydrogensulphite ... %

Aquatic invertebrates:

*(48 h) 89 mg/l, *Daphnia magna* (Directive 79/831/EEC, static)*

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Nominal concentration. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Information on: sodium hydrogensulphite ... %

Aquatic plants:

EC50 (72 h) 43.8 mg/l (growth rate), Scenedesmus subspicatus (OECD Guideline 201, static)

Nominal concentration. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Information on: sodium hydrogensulphite ... %

Microorganisms/Effect on activated sludge:

EC10 (3 h) 634.4 mg/l, (OECD Guideline 209, static)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. Nominal concentration.

Assessment of terrestrial toxicity:

Study scientifically not justified.

12.2. Persistence and degradability

Assessment biodegradation and elimination (H₂O):

Inorganic product which cannot be eliminated from water by biological purification processes.

Decomposition products formed by microbiotic degradation may affect the activity in biological waste water treatment plants.

Assessment of stability in water:

According to structural properties, hydrolysis is not expected/probable.

Study scientifically not justified.

12.3. Bioaccumulative potential

Assessment bioaccumulation potential:

Accumulation in organisms is not to be expected.

Bioaccumulation potential:

Study scientifically not justified.

Information on: sodium hydrogensulphite ... %

Assessment bioaccumulation potential:

Accumulation in organisms is not to be expected.

12.4. Mobility in soil

Assessment transport between environmental compartments:

Adsorption in soil: Adsorption to solid soil phase is not expected.

12.5. Results of PBT and vPvB assessment

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According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not fulfill the criteria for PBT (Persistent/bioaccumulative/toxic) and vPvB (very persistent/very bioaccumulative). Self classification

12.6. Other adverse effects

The substance is not listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

12.7. Additional information

Other ecotoxicological advice:

Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations. At the present state of knowledge, no negative ecological effects are expected.

SECTION 13: Disposal Considerations

13.1. Waste treatment methods

Must be disposed of or incinerated in accordance with local regulations.
Observe national and local legal requirements.

The UK Environmental Protection (Duty of Care) Regulations (EP) and amendments should be noted (United Kingdom).

This product and any uncleaned containers must be disposed of as hazardous waste in accordance with the 2005 Hazardous Waste Regulations and amendments (United Kingdom)

Contaminated packaging:

Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.

SECTION 14: Transport Information

Land transport

ADR

	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

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RID

	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

Inland waterway transport

ADN

	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user:	None known

Transport in inland waterway vessel

Not evaluated

Sea transport

IMDG

	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

Air transport

IATA/ICAO

	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable

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Transport hazard class(es): Not applicable
Packing group: Not applicable
Environmental hazards: Not applicable
Special precautions for user: None known

14.1. UN number or ID number

See corresponding entries for "UN number or ID number" for the respective regulations in the tables above.

14.2. UN proper shipping name

See corresponding entries for "UN proper shipping name" for the respective regulations in the tables above.

14.3. Transport hazard class(es)

See corresponding entries for "Transport hazard class(es)" for the respective regulations in the tables above.

14.4. Packing group

See corresponding entries for "Packing group" for the respective regulations in the tables above.

14.5. Environmental hazards

See corresponding entries for "Environmental hazards" for the respective regulations in the tables above.

14.6. Special precautions for user

See corresponding entries for "Special precautions for user" for the respective regulations in the tables above.

14.7. Maritime transport in bulk according to IMO instruments

Maritime transport in bulk is not intended.

SECTION 15: Regulatory Information

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

Prohibitions, Restrictions and Authorizations

UK REACH SI, Annex XVII, Marketing and Use Restrictions
Number on List: 3

The data should be considered when making any assessment under the Control of Substances Hazardous to Health Regulations (COSHH), and related guidance, for example, 'COSHH Essentials' (United Kingdom).

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If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

15.2. Chemical Safety Assessment

Chemical Safety Assessment performed

SECTION 16: Other Information

Assessment of the hazard classes according to UN GHS criteria (most recent version)

Acute Tox. 4 (oral)
Aquatic Acute 3

Full text of the classifications, including the hazard classes and the hazard statements, if mentioned in section 2 or 3:

Acute Tox.	Acute toxicity
H302	Harmful if swallowed.
EUH031	Contact with acids liberates toxic gas.

Abbreviations

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road.
ADN = The European Agreement concerning the International Carriage of Dangerous Goods by Inland waterways. ATE = Acute Toxicity Estimates. CAO = Cargo Aircraft Only. CAS = Chemical Abstract Service. CLP = Classification, Labelling and Packaging of substances and mixtures. DIN = German national organization for standardization. DNEL = Derived No Effect Level. EC50 = Effective concentration median for 50% of the population. EC = European Community. EN = European Standards. IARC = International Agency for Research on Cancer. IATA = International Air Transport Association. IBC-Code = Intermediate Bulk Container code. IMDG = International Maritime Dangerous Goods Code. ISO = International Organization for Standardization. STEL = Short-Term Exposure Limit. LC50 = Lethal concentration median for 50% of the population. LD50 = Lethal dose median for 50% of the population. TLV = Threshold Limit Value. MARPOL = The International Convention for the Prevention of Pollution from Ships. NEN = Dutch Norm. NOEC = No Observed Effect Concentration. OEL = Occupational Exposure Limit. OECD = Organization for Economic Cooperation and Development. PBT = Persistent, Bioaccumulative and Toxic. PNEC = Predicted No Effect Level. PPM = Parts per million. RID = The European Agreement concerning the International Carriage of Dangerous Goods by Rail. TWA = Time Weight Average. UN-number = UN number at transport. vPvB = very Persistent and very Bioaccumulative.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

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Annex: Exposure Scenarios

Index

1. Manufacture of substance, Industrial applications, Formulation of solutions, (liquid products)

IS; SU1, SU2a, SU2b, IS, SU4, SU5, SU6a, SU6b, SU7, SU8, SU9, SU10, SU11, SU12, SU13, SU14, SU15, SU16, SU17, SU18, SU19, SU20, SU23; ERC1, ERC2, ERC4, ERC5, ERC6a, ERC6b, ERC6c, ERC6d, ERC7, ERC8a, ERC8b, ERC8e, ERC9a, ERC9b; PROC1, PROC2, PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC12, PROC13, PROC14, PROC15, PROC16, PROC17, PROC18, PROC19; PC1, PC2, PC3, PC4, PC7, PC8, PC9a, PC9b, PC12, PC13, PC14, PC15, PC17, PC18, PC19, PC20, PC23, PC24, PC25, PC26, PC28, PC30, PC31, PC32, PC34, PC35, PC37, PC38, PC39, PC40

2. Professional applications, (liquid products)

PW; PW; ERC1, ERC2, ERC4, ERC5, ERC6a, ERC6b, ERC6c, ERC6d, ERC7, ERC8a, ERC8b, ERC8e, ERC9a, ERC9b; PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC12, PROC13, PROC14, PROC15, PROC16, PROC17, PROC18, PROC19, PROC20; PC1, PC2, PC7, PC9a, PC9b, PC12, PC14, PC15, PC17, PC18, PC20, PC23, PC24, PC25, PC26, PC30, PC31, PC34, PC35, PC37, PC38, PC40

3. Cleaning agents

C; C; ERC8a, ERC8b; PC0,,

4. Production of woodbased materials (panels, bricks, etc)

IS; IS, SU6a, SU18; ERC5, ERC6b; PROC4, PROC6, PROC8b, PROC21, PROC24

5. Use in Wood articles

PW; PW, SU6a, SU18; ERC11a, ERC11b; PROC21, PROC24

1. Short title of exposure scenario

Manufacture of substance, Industrial applications, Formulation of solutions, (liquid products)

IS; SU1, SU2a, SU2b, IS, SU4, SU5, SU6a, SU6b, SU7, SU8, SU9, SU10, SU11, SU12, SU13, SU14, SU15, SU16, SU17, SU18, SU19, SU20, SU23; ERC1, ERC2, ERC4, ERC5, ERC6a, ERC6b, ERC6c, ERC6d, ERC7, ERC8a, ERC8b, ERC8e, ERC9a, ERC9b; PROC1, PROC2, PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC12, PROC13, PROC14, PROC15, PROC16, PROC17, PROC18, PROC19; PC1, PC2, PC3, PC4, PC7, PC8, PC9a, PC9b, PC12, PC13, PC14, PC15, PC17, PC18, PC19, PC20, PC23, PC24, PC25, PC26, PC28, PC30, PC31, PC32, PC34, PC35, PC37, PC38, PC39, PC40

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions PROC12: Use of blowing agents in

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	manufacture of foam Use domain: industrial
Operational conditions	
Concentration of the substance	sodium hydrogensulphite ... % Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Clean equipment and the work area every day. Avoid frequent and direct contact with substance.	
Use suitable chemically resistant gloves. Wear suitable working clothes. Wear suitable face shield	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Risk Management Measures are based on qualitative risk characterisation.	
Exposure estimate and reference to its source	
PROC1, PROC2, PROC12	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	0.001 mg/m ³
Risk Characterization Ratio (RCR)	< 0.001
PROC1, PROC2, PROC12	
Assessment method	Qualitative assessment
	Worker - contact with eyes

Contributing exposure scenario	
Use descriptors covered	PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). PROC13: Treatment of articles by dipping and pouring. PROC14: Tableting, compression, extrusion, pelletisation, granulation PROC15: Use a laboratory reagent. PROC16: Use of fuels Use domain: industrial
Operational conditions	

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Concentration of the substance	sodium hydrogensulphite ... % Content: >= 0 % - <= 100 %
Physical state	liquid
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Clean equipment and the work area every day. Avoid frequent and direct contact with substance.	
Use suitable chemically resistant gloves. Wear suitable face shield Wear suitable working clothes.	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Risk Management Measures are based on qualitative risk characterisation.	
Exposure estimate and reference to its source	
PROC3, PROC8b, PROC9, PROC13, PROC14, PROC15, PROC16	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	0.01 mg/m ³
Risk Characterization Ratio (RCR)	0.001
PROC3, PROC8b, PROC9, PROC13, PROC14, PROC15, PROC16	
Assessment method	Qualitative assessment
	Worker - contact with eyes

Contributing exposure scenario	
Use descriptors covered	PROC4: Chemical production where opportunity for exposure arises PROC5: Mixing or blending in batch processes PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities PROC10: Roller application or brushing PROC19: Manual activities involving hand contact Use domain: industrial
Operational conditions	
Concentration of the substance	sodium hydrogensulphite ... % Content: >= 0 % - <= 100 %
Physical state	liquid
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Clean equipment and the work area	

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every day. Avoid frequent and direct contact with substance.	
Use suitable chemically resistant gloves. Wear suitable face shield Wear suitable working clothes.	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Risk Management Measures are based on qualitative risk characterisation.	
Exposure estimate and reference to its source	
PROC4, PROC5, PROC8a, PROC10, PROC19	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	0.05 mg/m ³
Risk Characterization Ratio (RCR)	0.005
PROC4, PROC5, PROC8a, PROC10, PROC19	
Assessment method	Qualitative assessment
	Worker - contact with eyes
Assessment method	Qualitative assessment
	Worker - contact with eyes

Contributing exposure scenario	
Use descriptors covered	PROC17: Lubrication at high energy conditions in metal working operations PROC18: General greasing /lubrication at high kinetic energy conditions Use domain: industrial
Operational conditions	
Concentration of the substance	sodium hydrogensulphite ... % Content: >= 0 % - <= 100 %
Physical state	liquid
Duration and Frequency of activity	5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Avoid frequent and direct contact with substance. Clean equipment and the work area every day.	
Use suitable chemically resistant gloves. Wear suitable face shield Wear suitable working clothes.	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Risk Management Measures are	

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based on qualitative risk characterisation.	
Exposure estimate and reference to its source	
PROC17, PROC18	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	0.1 mg/m ³
Risk Characterization Ratio (RCR)	0.01
PROC17, PROC18	
Assessment method	Qualitative assessment
	Worker - contact with eyes

Contributing exposure scenario	
Use descriptors covered	PROC7: Industrial spraying Use domain: industrial
Operational conditions	
Concentration of the substance	sodium hydrogensulphite ... % Content: >= 0 % - <= 100 %
Physical state	liquid
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Avoid frequent and direct contact with substance. Clean equipment and the work area every day.	
Provide extract ventilation to points where emissions occur (LEV).	Effectiveness: 78.0 %
Wear suitable face shield Use suitable chemically resistant gloves. Wear suitable working clothes.	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Risk Management Measures are based on qualitative risk characterisation.	
Exposure estimate and reference to its source	
PROC7	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	4.4 mg/m ³
Risk Characterization Ratio (RCR)	0.44
PROC7	
Assessment method	Qualitative assessment
	Worker - contact with eyes

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Contributing exposure scenario	
Use descriptors covered	As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

2. Short title of exposure scenario

Professional applications, (liquid products)

PW; PW; ERC1, ERC2, ERC4, ERC5, ERC6a, ERC6b, ERC6c, ERC6d, ERC7, ERC8a, ERC8b, ERC8e, ERC9a, ERC9b; PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC12, PROC13, PROC14, PROC15, PROC16, PROC17, PROC18, PROC19, PROC20; PC1, PC2, PC7, PC9a, PC9b, PC12, PC14, PC15, PC17, PC18, PC20, PC23, PC24, PC25, PC26, PC30, PC31, PC34, PC35, PC37, PC38, PC40

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions PROC12: Use of blowing agents in manufacture of foam PROC20: Use of functional fluids in small devices Use domain: professional
Operational conditions	
Concentration of the substance	sodium hydrogensulphite ... % Content: >= 0 % - <= 100 %
Physical state	liquid
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Clean equipment and the work area every day. Avoid frequent and direct contact with substance.	
Wear suitable face shield Use suitable chemically resistant gloves. Wear suitable working clothes.	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Risk Management Measures are based on qualitative risk characterisation.	
Exposure estimate and reference to its source	
PROC2, PROC12, PROC20	

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Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	0.001 mg/m ³
Risk Characterization Ratio (RCR)	< 0.001
PROC2, PROC12, PROC20	
Assessment method	Qualitative assessment
	Worker - contact with eyes

Contributing exposure scenario	
Use descriptors covered	PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition PROC15: Use a laboratory reagent. Use domain: professional
Operational conditions	
Concentration of the substance	sodium hydrogensulphite ... % Content: >= 0 % - <= 100 %
Physical state	liquid
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Ensure minimization of manual phases Avoid frequent and direct contact with substance.	
Wear suitable face shield Use suitable chemically resistant gloves. Wear suitable working clothes.	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Risk Management Measures are based on qualitative risk characterisation.	
Exposure estimate and reference to its source	
PROC3, PROC15	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	0.01 mg/m ³
Risk Characterization Ratio (RCR)	0.001
PROC3, PROC15	
Assessment method	Qualitative assessment
	Worker - contact with eyes

Contributing exposure scenario	
Use descriptors covered	PROC4: Chemical production where opportunity for exposure arises PROC5: Mixing or blending in batch

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	processes PROC14: Tableting, compression, extrusion, pelletisation, granulation Use domain: professional
Operational conditions	
Concentration of the substance	sodium hydrogensulphite ... % Content: >= 0 % - <= 100 %
Physical state	liquid
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Clean equipment and the work area every day. Avoid frequent and direct contact with substance.	
Wear suitable face shield Use suitable chemically resistant gloves. Wear suitable working clothes.	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Risk Management Measures are based on qualitative risk characterisation.	
Exposure estimate and reference to its source	
PROC4, PROC5, PROC14	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	0.1 mg/m ³
Risk Characterization Ratio (RCR)	0.001
PROC4, PROC5, PROC14	
Assessment method	Qualitative assessment
	Worker - contact with eyes

Contributing exposure scenario	
Use descriptors covered	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). PROC13: Treatment of articles by dipping and pouring. PROC16: Use of fuels PROC18: General greasing /lubrication at high kinetic energy conditions Use domain: professional
Operational conditions	
Concentration of the substance	sodium hydrogensulphite ... %

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	Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Duration and Frequency of activity	480 min 5 days per year
Indoor/Outdoor	Indoor
Risk Management Measures	
Clean equipment and the work area every day. Avoid frequent and direct contact with substance.	
Wear suitable face shield Use suitable chemically resistant gloves. Wear suitable working clothes.	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Risk Management Measures are based on qualitative risk characterisation.	
Exposure estimate and reference to its source	
PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC19	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	0.05 mg/m ³
Risk Characterization Ratio (RCR)	0.005
PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC19	
Assessment method	Qualitative assessment
	Worker - contact with eyes

Contributing exposure scenario	
Use descriptors covered	PROC11: Non industrial spraying Use domain: professional
Operational conditions	
Concentration of the substance	sodium hydrogensulphite ... % Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Clean equipment and the work area every day. Avoid frequent and direct contact with substance.	
Wear suitable face shield Use suitable chemically resistant gloves. Wear suitable working clothes. Wear suitable respiratory protection.	

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Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Risk Management Measures are based on qualitative risk characterisation.	
Exposure estimate and reference to its source	
PROC11	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	5 mg/m ³
Risk Characterization Ratio (RCR)	0.5
PROC11	
Assessment method	Qualitative assessment
	Worker - contact with eyes

Contributing exposure scenario	
Use descriptors covered	PROC17: Lubrication at high energy conditions in metal working operations Use domain: professional
Operational conditions	
Concentration of the substance	sodium hydrogensulphite ... % Content: >= 0 % - <= 100 %
Physical state	liquid
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Clean equipment and the work area every day. Avoid frequent and direct contact with substance.	
Wear suitable face shield Use suitable chemically resistant gloves. Wear suitable working clothes.	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Risk Management Measures are based on qualitative risk characterisation.	
Exposure estimate and reference to its source	
PROC17	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	1 mg/m ³
Risk Characterization Ratio (RCR)	0.1

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PROC17	
Assessment method	Qualitative assessment
	Worker - contact with eyes

Contributing exposure scenario	
Use descriptors covered	PROC16: Use of fuels PROC18: General greasing /lubrication at high kinetic energy conditions Use domain: professional
Operational conditions	
Concentration of the substance	sodium hydrogensulphite ... % Content: >= 0 % - <= 100 %
Physical state	liquid
Duration and Frequency of activity	480 min 5 days per week
Risk Management Measures	
Clean equipment and the work area every day. Avoid frequent and direct contact with substance.	
Wear suitable face shield Use suitable chemically resistant gloves. Wear suitable working clothes.	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Risk Management Measures are based on qualitative risk characterisation.	
Exposure estimate and reference to its source	
PROC16, PROC18	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	0.5 mg/m ³
Risk Characterization Ratio (RCR)	0.05
PROC16, PROC18	
Assessment method	Qualitative assessment
	Worker - contact with eyes

Contributing exposure scenario	
Use descriptors covered	As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

3. Short title of exposure scenario

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Cleaning agents

C; C; ERC8a, ERC8b; PC0,,

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	C: Consumer uses Indoor Spot removers (liquid) The exposure scenario considers exposure of children.
Operational conditions	
Concentration of the substance	sodium hydrogensulphite ... % Content: >= 20 % - <= 50 %
Physical state	liquid
Duration and Frequency of activity	< 15 min 1 uses per day
Indoor/Outdoor	Indoor
Exposed skin area	Fingertips (36 cm ²), Palm of both hands (430 cm ²)
Risk Management Measures	
Application Area	Consumer use
Route of exposure	Oral
Consumer Measures	After contact with skin, wash immediately with plenty of water
Exposure estimate and reference to its source	
PROC0	
Assessment method	Other consideration (non-standard tool)
	Consumer- oral, long-term - local und systemic
Exposure estimate	0.0025 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.026

Contributing exposure scenario	
Use descriptors covered	As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

4. Short title of exposure scenario

Production of woodbased materials (panels, bricks, etc)

IS; IS, SU6a, SU18; ERC5, ERC6b; PROC4, PROC6, PROC8b, PROC21, PROC24

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	PROC4: Chemical production where opportunity for exposure arises Use domain: industrial

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Operational conditions	
Concentration of the substance	sodium hydrogensulphite ... % Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Clean equipment and the work area every day. Avoid frequent and direct contact with substance.	
Use suitable chemically resistant gloves. Wear suitable face shield Wear suitable working clothes.	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Risk Management Measures are based on qualitative risk characterisation.	
Exposure estimate and reference to its source	
PROC4	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	0.05 mg/m ³
Risk Characterization Ratio (RCR)	0.005
PROC4	
Assessment method	Qualitative assessment
	Worker - contact with eyes
Assessment method	Qualitative assessment
	Worker - contact with eyes

Contributing exposure scenario	
Use descriptors covered	PROC6: Calendering operations
Operational conditions	
Concentration of the substance	sodium hydrogensulphite ... % Content: $\geq 0\%$ - $\leq 100\%$
Physical state	Solid
Duration and Frequency of activity	Exposure duration: 480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Clean equipment and the work area every day. Avoid frequent and direct contact with substance.	
Use suitable chemically resistant	

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gloves. Wear suitable working clothes. Wear safety shoes during all process steps	
Personal measures have to be applied in case of potential exposure only., Risk Management Measures are based on qualitative risk characterisation.	
Exposure estimate and reference to its source	
PROC6	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	5 mg/m ³
Risk Characterization Ratio (RCR)	0.5
PROC6	
Assessment method	Qualitative assessment
	Worker - contact with eyes
Contributing exposure scenario	
Use descriptors covered	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial
Operational conditions	
Concentration of the substance	sodium hydrogensulphite ... % Content: >= 0 % - <= 100 %
Physical state	liquid
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Clean equipment and the work area every day. Avoid frequent and direct contact with substance.	
Use suitable chemically resistant gloves. Wear suitable face shield Wear suitable working clothes.	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Risk Management Measures are based on qualitative risk characterisation.	
Exposure estimate and reference to its source	
PROC8b	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	0.01 mg/m ³

BASF Safety data sheet according to Regulation UK SI 2019/758 and UK SI 2020/1577 as amended from time to time.

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Risk Characterization Ratio (RCR)	0.001
PROC8b	
Assessment method	Qualitative assessment
	Worker - contact with eyes

Contributing exposure scenario	
Use descriptors covered	PROC21: Low energy manipulation and handling of substances bound in/on materials or articles PROC24: High (mechanical) energy work-up of substances bound in /on materials and/or articles
Operational conditions	
Concentration of the substance	sodium hydrogensulphite ... % Content: >= 0 % - <= 100 %
Physical state	Solid
Duration and Frequency of activity	Exposure duration: 480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Clean equipment and the work area every day. Avoid frequent and direct contact with substance.	
Use suitable chemically resistant gloves. Wear suitable working clothes. Wear safety shoes during all process steps	
Personal measures have to be applied in case of potential exposure only., Risk Management Measures are based on qualitative risk characterisation.	
Exposure estimate and reference to its source	
PROC21	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	0.5 mg/m ³
Risk Characterization Ratio (RCR)	0.05
PROC24	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	5.5 mg/m ³
Risk Characterization Ratio (RCR)	0.55
PROC21, PROC24	
Assessment method	Qualitative assessment
	Worker - contact with eyes

Contributing exposure scenario	
Use descriptors covered	As no environmental hazard was identified no environmental-related exposure assessment and risk

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	characterization was performed.
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5. Short title of exposure scenario

Use in Wood articles

PW; PW, SU6a, SU18; ERC11a, ERC11b; PROC21, PROC24

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	PROC21: Low energy manipulation and handling of substances bound in/on materials or articles PROC24: High (mechanical) energy work-up of substances bound in /on materials and/or articles
Operational conditions	
Concentration of the substance	sodium hydrogensulphite ... % Content: >= 0 % - <= 100 %
Physical state	Solid
Duration and Frequency of activity	Exposure duration: 480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Clean equipment and the work area every day. Avoid frequent and direct contact with substance.	
Use suitable chemically resistant gloves. Wear suitable working clothes. Wear safety shoes during all process steps	
Personal measures have to be applied in case of potential exposure only., Risk Management Measures are based on qualitative risk characterisation.	
Exposure estimate and reference to its source	
PROC21	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	0.5 mg/m ³
Risk Characterization Ratio (RCR)	0.05
PROC24	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	5.5 mg/m ³
Risk Characterization Ratio (RCR)	0.55
PROC21, PROC24	

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Assessment method	Qualitative assessment
	Worker - contact with eyes

Contributing exposure scenario

Use descriptors covered	As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
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