

Safety data sheet

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BASF safety data sheet. This is a translation of the country-specific safety data sheet into a language other than that required by law. This document does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.

Date / Revised: 01.08.2025

Version: 3.0

Date / Previous version: 24.06.2025

Previous version: 2.0

Product: **Sodium Metabisulfite food grade (E223)**

(ID no. 30042375/SDS_GEN_DE/EN)

Date of print 18.10.2025

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

1.1. Product identifier

Sodium Metabisulfite food grade (E223)

Chemical name: sodium metabisulphite Use: chemical

INDEX-Number: 016-063-00-2

CAS Number: 7681-57-4

REACH registration number: 01-2119531326-45-0002, 01-2119531326-45-0000

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

Relevant identified uses: food additive(s)

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

Division Monomers

Telephone: +49 621 60 42737

E-mail address: pss.monomers@basf.com

1.4. Emergency telephone number

International emergency number:

Telephone: +49 180 2273-112

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SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture

According to Regulation (EC) No 1272/2008 [CLP]

Acute Tox. 4 (oral)

H302 Harmful if swallowed.

Eye Dam. 1

H318 Causes serious eye damage.

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 Regulation (EC) No 1272/2008 [CLP]

Pictogram:



Signal Word:

Danger

Hazard Statement:

H318

Causes serious eye damage.

H302

Harmful if swallowed.

Precautionary Statements (Prevention):

P280

Wear eye and face protection.

P270

Do not eat, drink or smoke when using this product.

P264

Wash contaminated body parts thoroughly after handling.

Precautionary Statements (Response):

P310

Immediately call a POISON CENTER or physician.

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P301 + P330

IF SWALLOWED: rinse mouth.

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 metabisulphite

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2.3. Other hazards

According to Regulation (EC) No 1272/2008 [CLP]

No specific dangers known, if the regulations/notes for storage and handling are considered. If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

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. Product does not contain a substance above legal limits included in the list established in accordance with Article 59(1) of Regulation (EC) No 1907/2006 for having endocrine disrupting properties or is identified to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 3: Composition/Information on Ingredients

3.1. Substances

Chemical nature

Na₂S₂O₅

E 223

sodium metabisulphite

CAS Number: 7681-57-4

EC-Number: 231-673-0

INDEX-Number: 016-063-00-2

Acute Tox. 4 (oral)

Eye Dam. 1

H318, H302

EUH031

Regulatory relevant ingredients

sodium metabisulphite

Content (W/W): >= 95 % - <= 100 %

CAS Number: 7681-57-4

EC-Number: 231-673-0

INDEX-Number: 016-063-00-2

Acute Tox. 4 (oral)

Eye Dam. 1

H318, H302

EUH031

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.

3.2. Mixtures

Not applicable

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SECTION 4: First-Aid Measures

4.1. Description of first aid measures

Remove contaminated clothing.

If inhaled:

If difficulties occur after dust has been inhaled, remove to fresh air and 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:

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

Unsuitable extinguishing media for safety reasons:

water jet

Additional information:

Product will not burn.

Use extinguishing measures to suit surroundings.

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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

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

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

Sweep/shovel up. 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. Avoid dust formation. Avoid contact with skin and eyes.

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.

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Suitable materials for containers: rubberized, Polyester resin, glass reinforced (Palatal A410), Stainless steel 1.4541, Stainless steel 1.4571, High density polyethylene (HDPE), Low density polyethylene (LDPE)

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.

Storage class according to TRGS 510 (originally VCI, Germany): (13) Non-combustible solids

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

No occupational exposure limits known.

The nuisance dust limit value is to be kept.

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

7446-09-5: sulphur dioxide

Short Term Exposure Classification: (TRGS 900 (DE))

Category I: Substances for which the localized effect has an assigned exposure limit or for substances with a sensitizing effect in respiratory passages

OEL 1,3 mg/m³ ; 0,5 ppm (TRGS 900 (DE))

Ceiling limit value/factor: 2

If the occupational exposure limit value (AGW) and the biological limit value (BGW) are complied with, there should be no risk of damage for the unborn child (see TRGS 900, Number 2.7)

TWA value 1,3 mg/m³ ; 0,5 ppm (EU SCOEL)

Ceiling limit value/factor: 8HR

STEL value 2,7 mg/m³ ; 1,0 ppm (EU SCOEL)

Ceiling limit value/factor: 15 min

PNEC

freshwater: 1 mg/l

marine water: 0,1 mg/l

STP: 75,4 mg/l

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DNEL

worker:

Long-term exposure- systemic effects, Inhalation: 225,0 mg/m³

consumer:

Long-term exposure- systemic effects, Inhalation: 66,0 mg/m³

consumer:

Long-term exposure- systemic effects, oral: 8,6 mg/kg

8.2. Exposure controls

Personal protective equipment

Respiratory protection:

Breathing protection if dusts are formed. Suitable respiratory protection for lower concentrations or short-term effect: Particle filter with low efficiency for solid particles (e.g. EN 143 or 149, Type P1 or FFP1) Breathing protection if gases/vapours are formed. Combination filter for gases/vapours of organic, inorganic, acid inorganic, alkaline compounds and toxic particles (e. g. EN 14387 Type ABEK-P3)

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).

General safety and hygiene measures

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

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SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

State of matter:	solid	
Form:	powder, crystalline	
Colour:	white to slightly yellow	
Odour:	faint odour, of sulfur dioxide	
Odour threshold:	Not determined due to potential health hazard by inhalation.	
Melting point:	> 150 °C The substance / product decomposes.	(other)
Boiling point:	The substance / product decomposes therefore not determined.	
Flammability:	not flammable	(other)
Lower explosion limit:	For solids not relevant for classification and labelling.	
Upper explosion limit:	For solids not relevant for classification and labelling.	
Flash point:	not applicable, the product is a solid	
Auto-ignition temperature:	not applicable	
Thermal decomposition:	150 °C To avoid thermal decomposition, do not overheat.	
pH value:	4,0 - 4,8 (5 %(m), 20 °C)	(pH Meter)
Viscosity, dynamic:	not applicable, the product is a solid	
Solubility in water:	Literature data. 667 g/l (25 °C)	
Partitioning coefficient n-octanol/water (log Kow):	not applicable	
Vapour pressure:	The vapour pressure of the aqueous solution consists of the partial pressure for water and the partial pressure for sulphur dioxide.	
Density:	2,36 g/cm ³ (20 °C)	(OECD Guideline 109)
Relative vapour density (air):	The product is a non-volatile solid.	

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Particle characteristics

Particle size distribution:	169,68 - 173,41 µm (standard deviation 1,25 µm)	(D50, ISO 13320-1)
fine particles -		
	422,29 - 443,58 µm (standard deviation 4,40 µm)	(D90, ISO 13320-1)
fine particles -		
	49,49 - 51,34 µm (standard deviation 0,63 µm)	(D10, ISO 13320-1)
fine particles -		

9.2. Other information

Information with regard to physical hazard classes

Explosives

Explosion hazard: not explosive (Directive 92/69/EEC, A.14)

Impact sensitivity: Based on the chemical structure there is no shock-sensitivity.

Oxidizing properties

Fire promoting properties: Based on its structural properties the product is not classified as oxidizing.

Flammable solids

Burning rate: 0 mm/s, 0 s (Directive 92/69/EEC, A.10)

Self-heating substances and mixtures

Self heating ability: It is not a substance capable of spontaneous heating.

Other safety characteristics

Bulk density: 1.000 - 1.200 kg/m³

pK_A: not applicable

Evaporation rate: The product is a non-volatile solid.

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 humidity.

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 hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Assessment of acute toxicity:

Of moderate toxicity after single ingestion. Virtually nontoxic by inhalation. Virtually nontoxic after a single skin contact. The product has not been fully tested. The statements have been derived in parts from products of a similar structure or composition.

Experimental/calculated data:

LD50 rat (oral): 1.540 mg/kg (OECD Guideline 401)

LC50 rat (by inhalation): > 5,5 mg/l 4 h (IRT)

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

LD50 rat (dermal): > 2.000 mg/kg (OECD Guideline 402)

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

Irritation

Experimental/calculated data:

Skin corrosion/irritation

rabbit: non-irritant (OECD Guideline 404)

Serious eye damage/irritation

rabbit: irreversible damage (OECD Guideline 405)

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Respiratory/Skin sensitization

Assessment of sensitization:

Skin sensitizing effects were not observed in animal studies. 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)

Germ cell mutagenicity

Assessment of mutagenicity:

No mutagenic effect was found in various tests with bacteria and mammalian cell culture. The substance was not mutagenic in studies with mammals.

Carcinogenicity

Assessment of carcinogenicity:

In long-term studies in rats in which the substance was given by feed, a carcinogenic effect was not observed.

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.

Specific target organ toxicity (single exposure)

Assessment of STOT single:

Apart from effects causing lethality, no specific target organ toxicity was observed in experimental studies.

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.

Aspiration hazard

not applicable

Interactive effects

No data available.

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11.2. Information on other hazards

Endocrine disrupting properties

The substance is not identified to have endocrine disrupting properties according to Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 nor is included in the Candidate List of substances of very high concern according to EU REACH Article 59 for having endocrine disrupting properties.

SECTION 12: Ecological Information

12.1. Toxicity

Assessment of aquatic toxicity:

Acutely harmful for aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Toxicity to fish:

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

The details of the toxic effect relate to the nominal concentration. The product has not been tested.

The statement has been derived from substances/products of a similar structure or composition.

Aquatic invertebrates:

EC50 (48 h) 89 mg/l, *Daphnia magna* (Directive 79/831/EEC, static)

Nominal concentration.

Aquatic plants:

EC50 (72 h) 43.8 mg/l (growth rate), algae (other, static)

Nominal concentration.

Microorganisms/Effect on activated sludge:

No observed effect concentration (3 h) > 1.000 mg/l, (OECD Guideline 209, aquatic)

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

Chronic toxicity to fish:

No observed effect concentration (34 d) > 316 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.

Chronic toxicity to aquatic invertebrates:

No observed effect concentration (21 d) > 10 mg/l, *Daphnia magna* (OECD Guideline 202, part 2, semistatic)

Nominal concentration.

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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.

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.

12.4. Mobility in soil

Assessment transport between environmental compartments:
Volatility: The substance will not evaporate into the atmosphere from the water surface.
Adsorption in soil: Adsorption to solid soil phase is not expected.

12.5. Results of PBT and vPvB assessment

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. Endocrine disrupting properties

The substance is not identified to have endocrine disrupting properties according to Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 nor is included in the Candidate List of substances of very high concern according to EU REACH Article 59 for having endocrine disrupting properties.

12.7. Other adverse effects

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

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Results of PMT and vPvM assessment

PMT assessment does not apply. vPvM assessment does not apply.

Additional information

Sum parameter

Chemical oxygen demand (COD): (calculated) 165 mg/g

Other ecotoxicological advice:

Higher concentrations of the substance may cause a strong chemical oxygen consumption in biological sewage-treatment plants and/or waterways.

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.

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

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

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

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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

Annex XVII of Regulation (EC) No 1907/2006: Number on List: 75

Classification according to 'TA-Luft' (Germany):

5.2.1: total dust, including fine dust

Water hazard class (§6 AwSV para.4 (Legal binding announcement of the substance in the Federal Gazette)): (1) Weakly water polluting. ID-No.: 1169

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

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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)

Eye Dam./Irrit. 1

Aquatic Acute 3

chemical industry

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

Acute Tox.

Acute toxicity

Eye Dam.

Serious eye damage

H318

Causes serious eye damage.

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. Industrial applications, Use in food products

IS; SU4; ERC6b; PROC3, PROC4, PROC5, PROC8b, PROC9, PROC15, PROC26, PROC28; PC0

2. Professional applications, Use in food products

PW; SU4; ERC8b; PROC3, PROC4, PROC5, PROC8a, PROC9, PROC8b, PROC10, PROC11, PROC13, PROC19, PROC26; PC0

1. Short title of exposure scenario

Industrial applications, Use in food products

IS; SU4; ERC6b; PROC3, PROC4, PROC5, PROC8b, PROC9, PROC15, PROC26, PROC28; PC0

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC6b: Use of reactive processing aid at industrial site (no inclusion into or onto article) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Operational conditions	
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 Use domain: industrial
Operational conditions	
Concentration of the substance	sodium metabisulphite Content: $\geq 0\%$ - $\leq 100\%$
Physical state	Solid, low dustiness
Vapour pressure of the substance during use	0,009 Pa
Process temperature	40 °C
	Corresponds to a vapour pressure < 0.01 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor

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	Operation is carried out at ambient or elevated temperatures
Risk Management Measures	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Clean equipment and the work area every day. Change clothes immediately after contamination. Ensure good work practices are implemented. Wash off any skin contamination immediately. Ensure minimization of manual phases Provide basic employee training to prevent/minimize exposures. Minimise number of staff exposed. Avoid contact with contaminated tools.	
Containment as appropriate Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	
Wear suitable face shield, Wear suitable working clothes.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v6.1, Workplace measurements
	Worker - inhalation, long-term - systemic
Exposure estimate	0,1 mg/m ³
Risk Characterization Ratio (RCR)	0,000444
Assessment method	Qualitative assessment
	Worker - inhalation

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 Use domain: industrial
Operational conditions	
Concentration of the substance	sodium metabisulphite Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,009 Pa

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Process temperature	40 °C
	Corresponds to a vapour pressure < 0.01 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Operation is carried out at ambient or elevated temperatures
<i>Risk Management Measures</i>	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Clean equipment and the work area every day. Change clothes immediately after contamination. Ensure good work practices are implemented. Wash off any skin contamination immediately. Ensure minimization of manual phases Provide basic employee training to prevent/minimize exposures. Minimise number of staff exposed. Avoid contact with contaminated tools.	
Containment as appropriate Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	
Wear suitable face shield, Wear suitable working clothes.	
Avoid contact with eyes.	
Use suitable eye protection.	
<i>Exposure estimate and reference to its source</i>	
Assessment method	EASY TRA v6.1, Workplace measurements
	Worker - inhalation, long-term - systemic
Exposure estimate	0,01 mg/m ³
Risk Characterization Ratio (RCR)	0,000044
Assessment method	Qualitative assessment
	Worker - inhalation

Contributing exposure scenario	
Use descriptors covered	PROC4: Chemical production where opportunity for exposure arises Use domain: industrial
<i>Operational conditions</i>	
Concentration of the substance	sodium metabisulphite

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	Content: $\geq 0\%$ - $\leq 100\%$
Physical state	Solid, low dustiness
Vapour pressure of the substance during use	0,009 Pa
Process temperature	40 °C
	Corresponds to a vapour pressure < 0.01 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Operation is carried out at ambient or elevated temperatures
Risk Management Measures	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Clean equipment and the work area every day. Change clothes immediately after contamination. Ensure good work practices are implemented. Wash off any skin contamination immediately. Ensure minimization of manual phases Provide basic employee training to prevent/minimize exposures. Minimise number of staff exposed. Avoid contact with contaminated tools.	
Containment as appropriate Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	
Wear suitable face shield, Wear suitable working clothes.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v6.1, Workplace measurements
	Worker - inhalation, long-term - systemic
Exposure estimate	0,5 mg/m ³
Risk Characterization Ratio (RCR)	0,002222
Assessment method	Qualitative assessment
	Worker - inhalation

Contributing exposure scenario

Use descriptors covered PROC4: Chemical production where opportunity for

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	exposure arises Use domain: industrial
Operational conditions	
Concentration of the substance	sodium metabisulphite Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	0,009 Pa
Process temperature	40 °C
	Corresponds to a vapour pressure < 0.01 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Operation is carried out at ambient or elevated temperatures
Risk Management Measures	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Clean equipment and the work area every day. Change clothes immediately after contamination. Ensure good work practices are implemented. Wash off any skin contamination immediately. Ensure minimization of manual phases Provide basic employee training to prevent/minimize exposures. Minimise number of staff exposed. Avoid contact with contaminated tools.	
Containment as appropriate Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	
Wear suitable face shield, Wear suitable working clothes.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v6.1, Workplace measurements
	Worker - inhalation, long-term - systemic
Exposure estimate	0,05 mg/m ³
Risk Characterization Ratio (RCR)	0,000222

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Assessment method	Qualitative assessment
	Worker - inhalation

Contributing exposure scenario	
Use descriptors covered	PROC5: Mixing or blending in batch processes Use domain: industrial
Operational conditions	
Concentration of the substance	sodium metabisulphite Content: $\geq 0\%$ - $\leq 100\%$
Physical state	Solid, low dustiness
Vapour pressure of the substance during use	0,009 Pa
Process temperature	40 °C
	Corresponds to a vapour pressure < 0.01 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Operation is carried out at ambient or elevated temperatures
Risk Management Measures	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Clean equipment and the work area every day. Change clothes immediately after contamination. Ensure good work practices are implemented. Wash off any skin contamination immediately. Ensure minimization of manual phases Provide basic employee training to prevent/minimize exposures. Minimise number of staff exposed. Avoid contact with contaminated tools.	
Containment as appropriate Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	
Wear suitable face shield, Wear suitable working clothes.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to its source	

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Assessment method	EASY TRA v6.1, Workplace measurements
	Worker - inhalation, long-term - systemic
Exposure estimate	0,5 mg/m ³
Risk Characterization Ratio (RCR)	0,002222
Assessment method	Qualitative assessment
	Worker - inhalation

Contributing exposure scenario	
Use descriptors covered	PROC5: Mixing or blending in batch processes Use domain: industrial
Operational conditions	
Concentration of the substance	sodium metabisulphite Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,009 Pa
Process temperature	40 °C
	Corresponds to a vapour pressure < 0.01 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Operation is carried out at ambient or elevated temperatures
Risk Management Measures	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Clean equipment and the work area every day. Change clothes immediately after contamination. Ensure good work practices are implemented. Wash off any skin contamination immediately. Ensure minimization of manual phases Provide basic employee training to prevent/minimize exposures. Minimise number of staff exposed. Avoid contact with contaminated tools.	
Containment as appropriate Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	
Wear suitable face shield, Wear	

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suitable working clothes.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v6.1, Workplace measurements
	Worker - inhalation, long-term - systemic
Exposure estimate	0,05 mg/m ³
Risk Characterization Ratio (RCR)	0,000222
Assessment method	Qualitative assessment
	Worker - inhalation

Contributing exposure scenario	
Use descriptors covered	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial
	Additional PROC(s) covered: Transfer of substance or preparation into small containers (dedicated filling line, including weighing).
Operational conditions	
Concentration of the substance	sodium metabisulphite Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,009 Pa
Process temperature	40 °C
	Corresponds to a vapour pressure < 0.01 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Operation is carried out at ambient or elevated temperatures
Risk Management Measures	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Clean equipment and the work area every day. Change clothes immediately after contamination. Ensure good work practices are implemented. Wash off any skin contamination immediately. Ensure minimization of manual phases Provide basic employee	

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training to prevent/minimize exposures. Minimise number of staff exposed. Avoid contact with contaminated tools.	
Containment as appropriate Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	
Wear suitable face shield, Wear suitable working clothes.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v6.1, Workplace measurements
	Worker - inhalation, long-term - systemic
Exposure estimate	0,01 mg/m ³
Risk Characterization Ratio (RCR)	0,000044
Assessment method	Qualitative assessment
	Worker - inhalation

Contributing exposure scenario	
Use descriptors covered	PROC15: Use a laboratory reagent. Use domain: industrial
Operational conditions	
Concentration of the substance	sodium metabisulphite Content: >= 0 % - <= 100 %
Physical state	Solid, low dustiness
Vapour pressure of the substance during use	0,009 Pa
Process temperature	40 °C
	Corresponds to a vapour pressure < 0.01 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Operation is carried out at ambient or elevated temperatures
Risk Management Measures	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Clean equipment and the work area every day. Change clothes immediately after contamination. Ensure good work	

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practices are implemented. Wash off any skin contamination immediately. Ensure minimization of manual phases Provide basic employee training to prevent/minimize exposures. Minimise number of staff exposed. Avoid contact with contaminated tools.	
Containment as appropriate Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	
Wear suitable face shield, Wear suitable working clothes.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v6.1, Workplace measurements
	Worker - inhalation, long-term - systemic
Exposure estimate	0,1 mg/m ³
Risk Characterization Ratio (RCR)	0,000444
Assessment method	Qualitative assessment
	Worker - inhalation

Contributing exposure scenario	
Use descriptors covered	PROC15: Use a laboratory reagent. Use domain: industrial
Operational conditions	
Concentration of the substance	sodium metabisulphite Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,009 Pa
Process temperature	40 °C
	Corresponds to a vapour pressure < 0.01 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Operation is carried out at ambient or elevated temperatures
Risk Management Measures	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Supervision in place to check that the RMMs in place are being used	

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correctly and OCs followed. Clean equipment and the work area every day. Change clothes immediately after contamination. Ensure good work practices are implemented. Wash off any skin contamination immediately. Ensure minimization of manual phases Provide basic employee training to prevent/minimize exposures. Minimise number of staff exposed. Avoid contact with contaminated tools.	
Containment as appropriate Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	
Wear suitable face shield, Wear suitable working clothes.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v6.1, Workplace measurements
	Worker - inhalation, long-term - systemic
Exposure estimate	0,01 mg/m ³
Risk Characterization Ratio (RCR)	0,000044
Assessment method	Qualitative assessment
	Worker - inhalation

Contributing exposure scenario	
Use descriptors covered	PROC26: Handling of solid inorganic substances at ambient temperature Use domain: industrial
Operational conditions	
Concentration of the substance	sodium metabisulphite Content: >= 0 % - <= 100 %
Physical state	Solid, low dustiness
Vapour pressure of the substance during use	0,009 Pa
Process temperature	40 °C
	Corresponds to a vapour pressure < 0.01 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Operation is carried out at ambient or elevated temperatures
Risk Management Measures	

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Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Clean equipment and the work area every day. Change clothes immediately after contamination. Ensure good work practices are implemented. Wash off any skin contamination immediately. Ensure minimization of manual phases Provide basic employee training to prevent/minimize exposures. Minimise number of staff exposed. Avoid contact with contaminated tools.	
Containment as appropriate Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	
Wear suitable face shield, Wear suitable working clothes.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v6.1, Workplace measurements
	Worker - inhalation, long-term - systemic
Exposure estimate	1,5 mg/m ³
Risk Characterization Ratio (RCR)	0,006667
Assessment method	Qualitative assessment
	Worker - inhalation

Contributing exposure scenario	
Use descriptors covered	PROC28: Manual maintenance (cleaning and repair) of machinery Use domain: industrial
Operational conditions	
Concentration of the substance	sodium metabisulphite Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,009 Pa
Process temperature	40 °C
	Corresponds to a vapour pressure < 0.01 Pa
Duration and Frequency of activity	480 min 5 days per week

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Indoor/Outdoor	Indoor
	Operation is carried out at ambient or elevated temperatures
Risk Management Measures	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Clean equipment and the work area every day. Change clothes immediately after contamination. Ensure good work practices are implemented. Wash off any skin contamination immediately. Ensure minimization of manual phases Provide basic employee training to prevent/minimize exposures. Minimise number of staff exposed. Avoid contact with contaminated tools.	
Containment as appropriate Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	
Wear suitable face shield, Wear suitable working clothes.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v6.1, Workplace measurements
	Worker - inhalation, long-term - systemic
Exposure estimate	0,05 mg/m ³
Risk Characterization Ratio (RCR)	0,000222
Assessment method	Qualitative assessment
	Worker - inhalation

Contributing exposure scenario	
Use descriptors covered	PROC28: Manual maintenance (cleaning and repair) of machinery Use domain: industrial
Operational conditions	
Concentration of the substance	sodium metabisulphite Content: >= 0 % - <= 100 %
Physical state	Solid, low dustiness
Vapour pressure of the substance	0,009 Pa

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during use	
Process temperature	40 °C
	Corresponds to a vapour pressure < 0.01 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Operation is carried out at ambient or elevated temperatures
Risk Management Measures	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Clean equipment and the work area every day. Change clothes immediately after contamination. Ensure good work practices are implemented. Wash off any skin contamination immediately. Ensure minimization of manual phases Provide basic employee training to prevent/minimize exposures. Minimise number of staff exposed. Avoid contact with contaminated tools.	
Containment as appropriate Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	
Wear suitable face shield, Wear suitable working clothes.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v6.1, Workplace measurements
	Worker - inhalation, long-term - systemic
Exposure estimate	1,5 mg/m ³
Risk Characterization Ratio (RCR)	0,006667
Assessment method	Qualitative assessment
	Worker - inhalation

2. Short title of exposure scenario

Professional applications, Use in food products

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PW; SU4; ERC8b; PROC3, PROC4, PROC5, PROC8a, PROC9, PROC8b, PROC10, PROC11, PROC13, PROC19, PROC26; PC0

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC8b: Widespread use of reactive processing aid (no inclusion into or onto article, indoor) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Operational conditions	
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 Use domain: professional
Operational conditions	
Concentration of the substance	sodium metabisulphite Content: $\geq 0\%$ - $\leq 100\%$
Physical state	Solid, low dustiness
Vapour pressure of the substance during use	0,009 Pa
Process temperature	40 °C
	Corresponds to a vapour pressure < 0.01 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Operation is carried out at ambient or elevated temperatures
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Clean equipment and the work area every day. Change clothes immediately after contamination. Ensure good work practices are implemented. Wash off any skin contamination immediately. Ensure minimization of manual phases Provide basic employee training to prevent/minimize exposures. Minimise number of staff exposed. Avoid contact with	

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contaminated tools.	
Containment as appropriate Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	
Wear suitable face shield, Wear suitable working clothes.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v6.1, Workplace measurements
	Worker - inhalation, long-term - systemic
Exposure estimate	0,1 mg/m ³
Risk Characterization Ratio (RCR)	0,000444
Assessment method	Qualitative assessment
	Worker - inhalation

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 Use domain: professional
Operational conditions	
Concentration of the substance	sodium metabisulphite Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,009 Pa
Process temperature	40 °C
	Corresponds to a vapour pressure < 0.01 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Operation is carried out at ambient or elevated temperatures
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Clean equipment and the work area every day. Change clothes immediately after contamination. Ensure good work practices are implemented. Wash off any skin contamination immediately. Ensure minimization of manual	

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phases Provide basic employee training to prevent/minimize exposures. Minimise number of staff exposed. Avoid contact with contaminated tools.	
Containment as appropriate Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	
Wear suitable face shield, Wear suitable working clothes.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v6.1, Workplace measurements
	Worker - inhalation, long-term - systemic
Exposure estimate	0,01 mg/m ³
Risk Characterization Ratio (RCR)	0,000044
Assessment method	Qualitative assessment
	Worker - inhalation

Contributing exposure scenario	
Use descriptors covered	PROC4: Chemical production where opportunity for exposure arises Use domain: professional
Operational conditions	
Concentration of the substance	sodium metabisulphite Content: >= 0 % - <= 100 %
Physical state	Solid, low dustiness
Vapour pressure of the substance during use	0,009 Pa
Process temperature	40 °C
	Corresponds to a vapour pressure < 0.01 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Operation is carried out at ambient or elevated temperatures
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Clean equipment and the work area every day. Change clothes immediately after contamination. Ensure good work practices are implemented. Wash off	

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any skin contamination immediately. Ensure minimization of manual phases Provide basic employee training to prevent/minimize exposures. Minimise number of staff exposed. Avoid contact with contaminated tools.	
Containment as appropriate Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	
Wear suitable face shield, Wear suitable working clothes.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v6.1, Workplace measurements
	Worker - inhalation, long-term - systemic
Exposure estimate	1 mg/m ³
Risk Characterization Ratio (RCR)	0,004444
Assessment method	Qualitative assessment
	Worker - inhalation

Contributing exposure scenario	
Use descriptors covered	PROC4: Chemical production where opportunity for exposure arises Use domain: professional
Operational conditions	
Concentration of the substance	sodium metabisulphite Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,009 Pa
Process temperature	40 °C
	Corresponds to a vapour pressure < 0.01 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Operation is carried out at ambient or elevated temperatures
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Clean equipment and the work area every day. Change clothes immediately after	

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contamination. Ensure good work practices are implemented. Wash off any skin contamination immediately. Ensure minimization of manual phases Provide basic employee training to prevent/minimize exposures. Minimise number of staff exposed. Avoid contact with contaminated tools.	
Containment as appropriate Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	
Wear suitable face shield, Wear suitable working clothes.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v6.1, Workplace measurements
	Worker - inhalation, long-term - systemic
Exposure estimate	0,1 mg/m ³
Risk Characterization Ratio (RCR)	0,000444
Assessment method	Qualitative assessment
	Worker - inhalation

Contributing exposure scenario	
Use descriptors covered	PROC5: Mixing or blending in batch processes Use domain: professional
Operational conditions	
Concentration of the substance	sodium metabisulphite Content: >= 0 % - <= 100 %
Physical state	Solid, low dustiness
Vapour pressure of the substance during use	0,009 Pa
Process temperature	40 °C
	Corresponds to a vapour pressure < 0.01 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Operation is carried out at ambient or elevated temperatures
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Clean equipment and the work area every	

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day. Change clothes immediately after contamination. Ensure good work practices are implemented. Wash off any skin contamination immediately. Ensure minimization of manual phases Provide basic employee training to prevent/minimize exposures. Minimise number of staff exposed. Avoid contact with contaminated tools.	
Containment as appropriate Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	
Wear suitable face shield, Wear suitable working clothes.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v6.1, Workplace measurements
	Worker - inhalation, long-term - systemic
Exposure estimate	1 mg/m ³
Risk Characterization Ratio (RCR)	0,004444
Assessment method	Qualitative assessment
	Worker - inhalation

Contributing exposure scenario	
Use descriptors covered	PROC5: Mixing or blending in batch processes Use domain: professional
Operational conditions	
Concentration of the substance	sodium metabisulphite Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,009 Pa
Process temperature	40 °C
	Corresponds to a vapour pressure < 0.01 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Operation is carried out at ambient or elevated temperatures
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Clean	

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equipment and the work area every day. Change clothes immediately after contamination. Ensure good work practices are implemented. Wash off any skin contamination immediately. Ensure minimization of manual phases Provide basic employee training to prevent/minimize exposures. Minimise number of staff exposed. Avoid contact with contaminated tools.	
Containment as appropriate Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	
Wear suitable face shield, Wear suitable working clothes.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v6.1, Workplace measurements
	Worker - inhalation, long-term - systemic
Exposure estimate	0,1 mg/m ³
Risk Characterization Ratio (RCR)	0,000444
Assessment method	Qualitative assessment
	Worker - inhalation

Contributing exposure scenario	
Use descriptors covered	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: professional
	Additional PROC(s) covered: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Transfer of substance or mixture (charging and discharging) at dedicated facilities
Operational conditions	
Concentration of the substance	sodium metabisulphite Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,009 Pa
Process temperature	40 °C
	Corresponds to a vapour pressure < 0.01 Pa
Duration and Frequency of activity	480 min 5 days per week

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Indoor/Outdoor	Indoor
	Operation is carried out at ambient or elevated temperatures
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Clean equipment and the work area every day. Change clothes immediately after contamination. Ensure good work practices are implemented. Wash off any skin contamination immediately. Ensure minimization of manual phases Provide basic employee training to prevent/minimize exposures. Minimise number of staff exposed. Avoid contact with contaminated tools.	
Containment as appropriate Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	
Wear suitable face shield, Wear suitable working clothes.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v6.1, Workplace measurements
	Worker - inhalation, long-term - systemic
Exposure estimate	0,05 mg/m ³
Risk Characterization Ratio (RCR)	0,000222
Assessment method	Qualitative assessment
	Worker - inhalation

Contributing exposure scenario	
Use descriptors covered	PROC10: Roller application or brushing Use domain: professional
Operational conditions	
Concentration of the substance	sodium metabisulphite Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,009 Pa
Process temperature	40 °C
	Corresponds to a vapour pressure < 0.01 Pa
Duration and Frequency of activity	480 min 5 days per week

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Indoor/Outdoor	Indoor
	Operation is carried out at ambient or elevated temperatures
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Clean equipment and the work area every day. Change clothes immediately after contamination. Ensure good work practices are implemented. Wash off any skin contamination immediately. Ensure minimization of manual phases Provide basic employee training to prevent/minimize exposures. Minimise number of staff exposed. Avoid contact with contaminated tools.	
Containment as appropriate Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	
Wear suitable face shield, Wear suitable working clothes.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v6.1, Workplace measurements
	Worker - inhalation, long-term - systemic
Exposure estimate	0,05 mg/m ³
Risk Characterization Ratio (RCR)	0,000222
Assessment method	Qualitative assessment
	Worker - inhalation

Contributing exposure scenario	
Use descriptors covered	PROC11: Non industrial spraying Use domain: professional
Operational conditions	
Concentration of the substance	sodium metabisulphite Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,009 Pa
Process temperature	40 °C
	Corresponds to a vapour pressure < 0.01 Pa

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Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Operation is carried out at ambient or elevated temperatures
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Clean equipment and the work area every day. Change clothes immediately after contamination. Ensure good work practices are implemented. Wash off any skin contamination immediately. Ensure minimization of manual phases Provide basic employee training to prevent/minimize exposures. Minimise number of staff exposed. Avoid contact with contaminated tools.	
Containment as appropriate Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	
Wear suitable face shield, Wear suitable working clothes.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v6.1, Workplace measurements
	Worker - inhalation, long-term - systemic
Exposure estimate	5,5 mg/m ³
Risk Characterization Ratio (RCR)	0,024444
Assessment method	Qualitative assessment
	Worker - inhalation

Contributing exposure scenario	
Use descriptors covered	PROC11: Non industrial spraying Use domain: professional
Operational conditions	
Concentration of the substance	sodium metabisulphite Content: >= 0 % - <= 100 %
Physical state	Solid, medium dustiness
Vapour pressure of the substance during use	0,009 Pa
Process temperature	40 °C

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	Corresponds to a vapour pressure < 0.01 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Operation is carried out at ambient or elevated temperatures
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Clean equipment and the work area every day. Change clothes immediately after contamination. Ensure good work practices are implemented. Wash off any skin contamination immediately. Ensure minimization of manual phases Provide basic employee training to prevent/minimize exposures. Minimise number of staff exposed. Avoid contact with contaminated tools.	
Containment as appropriate Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	
Wear suitable face shield, Wear suitable working clothes.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v6.1, Workplace measurements
	Worker - inhalation, long-term - systemic
Exposure estimate	5,5 mg/m ³
Risk Characterization Ratio (RCR)	0,024444
Assessment method	Qualitative assessment
	Worker - inhalation

Contributing exposure scenario	
Use descriptors covered	PROC13: Treatment of articles by dipping and pouring. Use domain: professional
Operational conditions	
Concentration of the substance	sodium metabisulphite Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,009 Pa
Process temperature	40 °C

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	Corresponds to a vapour pressure < 0.01 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Operation is carried out at ambient or elevated temperatures
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Clean equipment and the work area every day. Change clothes immediately after contamination. Ensure good work practices are implemented. Wash off any skin contamination immediately. Ensure minimization of manual phases Provide basic employee training to prevent/minimize exposures. Minimise number of staff exposed. Avoid contact with contaminated tools.	
Containment as appropriate Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	
Wear suitable face shield, Wear suitable working clothes.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v6.1, Workplace measurements
	Worker - inhalation, long-term - systemic
Exposure estimate	0,05 mg/m ³
Risk Characterization Ratio (RCR)	0,000222
Assessment method	Qualitative assessment
	Worker - inhalation

Contributing exposure scenario	
Use descriptors covered	PROC19: Manual activities involving hand contact Use domain: professional
Operational conditions	
Concentration of the substance	sodium metabisulphite Content: >= 0 % - <= 100 %
Physical state	Solid, low dustiness
Vapour pressure of the substance during use	0,009 Pa

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Process temperature	40 °C
	Corresponds to a vapour pressure < 0.01 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Operation is carried out at ambient or elevated temperatures
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Clean equipment and the work area every day. Change clothes immediately after contamination. Ensure good work practices are implemented. Wash off any skin contamination immediately. Ensure minimization of manual phases Provide basic employee training to prevent/minimize exposures. Minimise number of staff exposed. Avoid contact with contaminated tools.	
Containment as appropriate Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	
Wear suitable face shield, Wear suitable working clothes.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v6.1, Workplace measurements
	Worker - inhalation, long-term - systemic
Exposure estimate	0,5 mg/m ³
Risk Characterization Ratio (RCR)	0,002222
Assessment method	Qualitative assessment
	Worker - inhalation

Contributing exposure scenario	
Use descriptors covered	PROC19: Manual activities involving hand contact Use domain: professional
Operational conditions	
Concentration of the substance	sodium metabisulphite Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance	0,009 Pa

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during use	
Process temperature	40 °C
	Corresponds to a vapour pressure < 0.01 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Operation is carried out at ambient or elevated temperatures
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Clean equipment and the work area every day. Change clothes immediately after contamination. Ensure good work practices are implemented. Wash off any skin contamination immediately. Ensure minimization of manual phases Provide basic employee training to prevent/minimize exposures. Minimise number of staff exposed. Avoid contact with contaminated tools.	
Containment as appropriate Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	
Wear suitable face shield, Wear suitable working clothes.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v6.1, Workplace measurements
	Worker - inhalation, long-term - systemic
Exposure estimate	0,05 mg/m ³
Risk Characterization Ratio (RCR)	0,000222
Assessment method	Qualitative assessment
	Worker - inhalation

Contributing exposure scenario	
Use descriptors covered	PROC26: Handling of solid inorganic substances at ambient temperature Use domain: professional
Operational conditions	
Concentration of the substance	sodium metabisulphite Content: >= 0 % - <= 100 %

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Physical state	Solid, low dustiness
Vapour pressure of the substance during use	0,009 Pa
Process temperature	40 °C
	Corresponds to a vapour pressure < 0.01 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Operation is carried out at ambient or elevated temperatures
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Clean equipment and the work area every day. Change clothes immediately after contamination. Ensure good work practices are implemented. Wash off any skin contamination immediately. Ensure minimization of manual phases Provide basic employee training to prevent/minimize exposures. Minimise number of staff exposed. Avoid contact with contaminated tools.	
Containment as appropriate Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	
Wear suitable face shield, Wear suitable working clothes.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v6.1, Workplace measurements
	Worker - inhalation, long-term - systemic
Exposure estimate	3 mg/m ³
Risk Characterization Ratio (RCR)	0,013333
Assessment method	Qualitative assessment
	Worker - inhalation
