

Safety data sheet

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Date / Revised: 16.12.2022

Version: 1.0

Date previous version: not applicable

Previous version: none

Date / First version: 16.12.2022

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

(ID no. 30042375/SDS_GEN_DE/EN)

Date of print 29.03.2023

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: food additive(s), inorganic reducing agents

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

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./Irrit. 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.

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. 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

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./Irrit. 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

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.

On skin contact:

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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:

Rinse mouth and then drink 200-300 ml of water.

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

Symptoms: Overexposure may cause: vomiting, asthmatic complaints, abdominal cramps, dyspnea, nausea, diarrhea, coughing

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:
foam

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 a self-contained breathing apparatus.

Further information:

Contaminated extinguishing water must be disposed of in accordance with official regulations. In case of fire and/or explosion do not breathe fumes.

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SECTION 6: Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective clothing. Ensure adequate ventilation. Avoid dust formation. Avoid contact with eyes.

6.2. Environmental precautions

Do not discharge into drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

6.3. Methods and material for containment and cleaning up

Sweep/shovel up. Correctly dispose of recovered product immediately.

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.

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.

Do not store with: Sodium nitrate, sodium nitrite, disodium sulfide

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

Further information on storage conditions: Keep container tightly closed and dry; store in a cool place. Keep container in a well-ventilated place.

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.

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SECTION 8: Exposure Controls/Personal Protection

8.1. Control parameters

Components with occupational exposure limits

No substance specific occupational exposure limits known.

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 2,7 mg/m³ ; 1 ppm (TRGS 900 (DE))

Ceiling limit value/factor: 1

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)

Skin Designation (TRGS 900 (DE))

The substance can be absorbed through the skin.

PNEC

freshwater: 1 mg/l

marine water: 0,1 mg/l

STP: 75,4 mg/l

DNEL

Inhalation

The nuisance dust limit (inhalativ fraction) was used as basis for the DNEL.

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 breathable aerosols/dust 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):

polyvinylchloride (PVC) - 0.7 mm coating thickness

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nitrile rubber (NBR) - 0.4 mm coating thickness

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.

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.	
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	
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)	

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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/cm³
(20 °C)

(OECD Guideline 109)

Particle characteristics

Particle size distribution: 169,68 - 173,41 µm
422,29 - 443,58 µm
49,49 - 51,34 µm

(D50, ISO 13320-1)

(D90, ISO 13320-1)

(D10, ISO 13320-1)

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.

Corrosion to metals

< 6,25 mm/a

No corrosive effect on metal.

Other safety characteristicsBulk density: 1.000 - 1.200 kg/m³

pKA:

not applicable

Evaporation rate:

The product is a non-volatile solid.

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SECTION 10: Stability and Reactivity

10.1. Reactivity

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

Corrosion to metals: No corrosive effect on metal.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

Reacts with nitrites. Reacts with nitrates. Reacts with oxidizing agents.
The product is stable if stored and handled as prescribed/indicated.

10.4. Conditions to avoid

Avoid humidity.

10.5. Incompatible materials

Substances to avoid:
acids, oxidizing agents, nitrites, nitrates, sulfides

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.

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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)

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:

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

Experiences in humans

Experimental/calculated data:

Skin irritations described in isolated cases.

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.

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.

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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.

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:

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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.

12.8. Additional information

Sum parameter

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

Other ecotoxicological advice:

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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

Contact manufacturer regarding recycling.

Contact waste centre regarding recycling.

Must be disposed of or incinerated in accordance with local regulations.

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
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

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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

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.

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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

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

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

(ID no. 30042375/SDS_GEN_DE/EN)

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Acute Tox.	Acute toxicity
Eye Dam./Irrit.	Serious eye damage/eye irritation
H318	Causes serious eye damage.
H302	Harmful if swallowed.

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.

Vertical lines in the left hand margin indicate an amendment from the previous version.

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

(ID no. 30042375/SDS_GEN_DE/EN)

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Annex: Exposure Scenarios

Index

1. Manufacture of substance, Industrial applications, (handling as solid in solution), (liquid preparations)

SU3; SU1, SU2a, SU2b, SU3, SU4, SU5, SU6a, SU6b, SU7, SU8, SU9, SU10, SU11, SU12, SU13, SU14, SU15, SU16, SU17, SU18, SU19, SU20, SU23; ERC1, ERC2, ERC3, ERC4, ERC5, ERC6a, ERC6b, ERC6c, ERC6d, ERC7, ERC8a, ERC8b, ERC8c, ERC8d, ERC8e, ERC8f, ERC9a, ERC9b, ERC10a; 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. Manufacture of substance, Industrial applications, (granules, low dustiness)

SU3; SU1, SU2a, SU2b, SU3, SU4, SU5, SU6a, SU6b, SU7, SU8, SU9, SU10, SU11, SU12, SU13, SU14, SU15, SU16, SU17, SU18, SU19, SU20, SU23; ERC1, ERC2, ERC3, ERC4, ERC5, ERC6a, ERC6b, ERC6c, ERC6d, ERC7, ERC8a, ERC8b, ERC8c, ERC8d, ERC8e, ERC8f, ERC9a, ERC9b, ERC10a; PROC1, PROC2, PROC3, PROC4, PROC5, PROC6, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC14, PROC15, PROC16, PROC17, PROC18, PROC19, PROC21, PROC22, PROC23, PROC24, PROC25, PROC26; 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

3. Manufacture of substance, Industrial applications, (mid powder, medium dustiness)

SU3; SU1, SU2a, SU2b, SU3, SU4, SU5, SU6a, SU6b, SU7, SU8, SU9, SU10, SU11, SU12, SU13, SU14, SU15, SU16, SU17, SU18, SU19, SU20, SU23; ERC1, ERC2, ERC3, ERC4, ERC5, ERC6a, ERC6b, ERC6c, ERC6d, ERC7, ERC8a, ERC8b, ERC8c, ERC8d, ERC8e, ERC8f, ERC9a, ERC9b, ERC10a; PROC1, PROC2, PROC3, PROC4, PROC5, PROC6, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC14, PROC15, PROC16, PROC17, PROC18, PROC19, PROC22, PROC23, PROC24, PROC25, PROC26; 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

4. Manufacture of substance, Industrial applications, (fine powder, high dustiness)

SU3; SU1, SU2a, SU2b, SU3, SU4, SU5, SU6a, SU6b, SU7, SU8, SU9, SU10, SU11, SU12, SU13, SU14, SU15, SU16, SU17, SU18, SU19, SU20, SU23; ERC1, ERC2, ERC3, ERC4, ERC5, ERC6a, ERC6b, ERC6c, ERC6d, ERC7, ERC8a, ERC8b, ERC8c, ERC8d, ERC8e, ERC8f, ERC9a, ERC9b, ERC10a; PROC1, PROC2, PROC3, PROC4, PROC5, PROC6, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC14, PROC15, PROC16, PROC17, PROC18, PROC19, PROC22, PROC23, PROC24, PROC25, PROC26; 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

5. Professional applications, (liquid preparations), (handling as solid in solution)

SU22; SU22; ERC1, ERC2, ERC3, ERC4, ERC5, ERC6a, ERC6b, ERC6c, ERC6d, ERC7, ERC8a, ERC8b, ERC8c, ERC8d, ERC8e, ERC8f, ERC9a, ERC9b, ERC10a; 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, PC39, PC40

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6. Professional applications, (granules, low dustiness)

SU22; SU22; ERC1, ERC2, ERC3, ERC4, ERC5, ERC6a, ERC6b, ERC6c, ERC6d, ERC7, ERC8a, ERC8b, ERC8c, ERC8d, ERC8e, ERC8f, ERC9a, ERC9b, ERC10a; PROC2, PROC3, PROC4, PROC5, PROC6, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC14, PROC15, PROC16, PROC17, PROC18, PROC19, PROC21, PROC22, PROC23, PROC24, PROC25, PROC26; PC1, PC2, PC7, PC9a, PC9b, PC12, PC14, PC15, PC17, PC18, PC20, PC23, PC24, PC25, PC26, PC30, PC31, PC34, PC35, PC37, PC38, PC40

7. Professional applications, (mid powder, medium dustiness)

SU22; SU22; ERC1, ERC2, ERC3, ERC4, ERC5, ERC6a, ERC6b, ERC6c, ERC6d, ERC7, ERC8a, ERC8b, ERC8c, ERC8d, ERC8e, ERC8f, ERC9a, ERC9b, ERC10a; PROC2, PROC3, PROC4, PROC5, PROC6, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC14, PROC15, PROC16, PROC17, PROC18, PROC19, PROC22, PROC23, PROC24, PROC25, PROC26; PC1, PC2, PC7, PC9a, PC9b, PC12, PC14, PC15, PC17, PC18, PC20, PC23, PC24, PC25, PC26, PC30, PC31, PC34, PC35, PC37, PC38, PC40

8. Professional applications, (fine powder, high dustiness)

SU22; SU22; ERC1, ERC2, ERC3, ERC4, ERC5, ERC6a, ERC6b, ERC6c, ERC6d, ERC7, ERC8a, ERC8b, ERC8c, ERC8d, ERC8e, ERC8f, ERC9a, ERC9b, ERC10a; PROC2, PROC3, PROC4, PROC5, PROC6, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC14, PROC15, PROC16, PROC17, PROC18, PROC19, PROC22, PROC23, PROC24, PROC25, PROC26; PC1, PC2, PC7, PC9a, PC9b, PC12, PC14, PC15, PC17, PC18, PC20, PC23, PC24, PC25, PC26, PC30, PC31, PC34, PC35, PC37, PC38, PC40

9. Use in/as Photochemicals, (consumer use)

SU21; SU21; ERC8b; PC30

10. Production of woodbased materials (panels, bricks, etc), (use in industrial settings)

SU3; SU3, SU6a, SU18; ERC5, ERC6b; PROC4, PROC5, PROC6, PROC8b, PROC21, PROC24

11. Use in Wood articles, (use in professional settings)

SU22; SU6a, SU18, SU22; ERC11a, ERC11b; PROC21, PROC24

1. Short title of exposure scenario

Manufacture of substance, Industrial applications, (handling as solid in solution), (liquid preparations)
SU3; SU1, SU2a, SU2b, SU3, SU4, SU5, SU6a, SU6b, SU7, SU8, SU9, SU10, SU11, SU12, SU13, SU14, SU15, SU16, SU17, SU18, SU19, SU20, SU23; ERC1, ERC2, ERC3, ERC4, ERC5, ERC6a, ERC6b, ERC6c, ERC6d, ERC7, ERC8a, ERC8b, ERC8c, ERC8d, ERC8e, ERC8f, ERC9a, ERC9b, ERC10a; 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

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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 manufacture of foam Use domain: industrial
Operational conditions	
Concentration of the substance	sodium metabisulphite Content: >= 0 % - <= 100 %
Physical state	paste-like
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	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	0,001 mg/m ³
Risk Characterization Ratio (RCR)	< 0,001
Assessment method	Qualitative assessment
	Worker - contact with eyes
Guidance to Downstream Users	
For scaling see: http://www.ebrc.de/industrial-chemicals-reach/projects-and-references/mease.php	

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

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	<p>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</p>
Operational conditions	
Concentration of the substance	sodium metabisulphite Content: >= 0 % - <= 100 %
Physical state	paste-like
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Use suitable eye protection.	
Risk Management Measures are based on qualitative risk characterisation.	
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.	
Exposure estimate and reference to its source	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	0,01 mg/m ³
Risk Characterization Ratio (RCR)	0,001
Assessment method	Qualitative assessment
	Worker - contact with eyes
Guidance to Downstream Users	
For scaling see: http://www.ebrc.de/industrial-chemicals-reach/projects-and-references/mease.php	
Contributing exposure scenario	
Use descriptors covered	<p>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</p>

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	Use domain: industrial
Operational conditions	
Concentration of the substance	sodium metabisulphite Content: >= 0 % - <= 100 %
Physical state	paste-like
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.	
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	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	0,05 mg/m ³
Risk Characterization Ratio (RCR)	0,005
Assessment method	Qualitative assessment
	Worker - contact with eyes
Guidance to Downstream Users	
For scaling see: http://www.ebrc.de/industrial-chemicals-reach/projects-and-references/mease.php	

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 metabisulphite Content: >= 0 % - <= 100 %
Physical state	paste-like
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor

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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 based on qualitative risk characterisation.	
Exposure estimate and reference to its source	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	0,1 mg/m ³
Risk Characterization Ratio (RCR)	0,01
Assessment method	Qualitative assessment
	Worker - contact with eyes
Guidance to Downstream Users	
For scaling see: http://www.ebrc.de/industrial-chemicals-reach/projects-and-references/mease.php	

Contributing exposure scenario	
Use descriptors covered	PROC7: Industrial spraying Use domain: industrial
Operational conditions	
Concentration of the substance	sodium metabisulphite Content: >= 0 % - <= 100 %
Physical state	paste-like
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.	
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.	

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Use suitable eye protection.	
Risk Management Measures are based on qualitative risk characterisation.	
Exposure estimate and reference to its source	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	4,4 mg/m ³
Risk Characterization Ratio (RCR)	0,44
Assessment method	Qualitative assessment
	Worker - contact with eyes
Guidance to Downstream Users	
For scaling see: http://www.ebrc.de/industrial-chemicals-reach/projects-and-references/mease.php	

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

Manufacture of substance, Industrial applications, (granules, low dustiness)

SU3; SU1, SU2a, SU2b, SU3, SU4, SU5, SU6a, SU6b, SU7, SU8, SU9, SU10, SU11, SU12, SU13, SU14, SU15, SU16, SU17, SU18, SU19, SU20, SU23; ERC1, ERC2, ERC3, ERC4, ERC5, ERC6a, ERC6b, ERC6c, ERC6d, ERC7, ERC8a, ERC8b, ERC8c, ERC8d, ERC8e, ERC8f, ERC9a, ERC9b, ERC10a; PROC1, PROC2, PROC3, PROC4, PROC5, PROC6, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC14, PROC15, PROC16, PROC17, PROC18, PROC19, PROC21, PROC22, PROC23, PROC24, PROC25, PROC26; 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 PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition PROC4: Chemical production where opportunity for exposure arises PROC5: Mixing or blending in batch processes PROC6:

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	Calendering operations PROC7: Industrial spraying 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). PROC10: Roller application or brushing PROC13: Treatment of articles by dipping and pouring. PROC14: Tableting, compression, extrusion, pelletisation, granulation PROC15: Use a laboratory reagent. PROC16: Use of fuels PROC17: Lubrication at high energy conditions in metal working operations PROC18: General greasing /lubrication at high kinetic energy conditions PROC19: Manual activities involving hand contact PROC21: Low energy manipulation and handling of substances bound in/on materials or articles PROC26: Handling of solid inorganic substances at ambient temperature
Operational conditions	
Concentration of the substance	sodium metabisulphite Content: >= 0 % - <= 100 %
Physical state	Solid, low dustiness
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	
PROC1, PROC2	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	0,01 mg/m ³
Risk Characterization Ratio (RCR)	0,001
PROC3, PROC6, PROC8b, PROC9, PROC10, PROC13, PROC14, PROC15, PROC16	
Assessment method	MEASE

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	Worker - inhalation, long-term - systemic
Exposure estimate	0,1 mg/m ³
Risk Characterization Ratio (RCR)	0,01
PROC4, PROC5, PROC8a, PROC10, PROC19, PROC21	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	0,5 mg/m ³
Risk Characterization Ratio (RCR)	0,05
PROC7, PROC17, PROC18	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	1 mg/m ³
Risk Characterization Ratio (RCR)	0,1
PROC26	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	1,5 mg/m ³
Risk Characterization Ratio (RCR)	0,15
PROC1, PROC2, PROC3, PROC4, PROC5, PROC6, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC14, PROC15, PROC16, PROC17, PROC18, PROC19, PROC21, PROC26	
Assessment method	Qualitative assessment
	Worker - contact with eyes
Guidance to Downstream Users	
For scaling see: http://www.ebrc.de/industrial-chemicals-reach/projects-and-references/mease.php	

Contributing exposure scenario	
Use descriptors covered	PROC22: Manufacturing and processing of minerals and/or metals at substantially elevated temperature PROC23: Open processing and transfer operations at substantially elevated temperature PROC25: Other hot work operations with metals Use domain: industrial
Operational conditions	
Concentration of the substance	sodium metabisulphite Content: >= 0 % - <= 100 %
Physical state	Melted mass, Solid, high dustiness
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.	
Use suitable chemically resistant gloves. Wear suitable face shield	

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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	
PROC22	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	7 mg/m ³
Risk Characterization Ratio (RCR)	0,7
PROC23, PROC25	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	2 mg/m ³
Risk Characterization Ratio (RCR)	0,2
PROC22, PROC23, PROC25	
Assessment method	Qualitative assessment
	Worker - contact with eyes
Guidance to Downstream Users	
For scaling see: http://www.ebrc.de/industrial-chemicals-reach/projects-and-references/mease.php	

Contributing exposure scenario	
Use descriptors covered	PROC24: High (mechanical) energy work-up of substances bound in /on materials and/or articles Use domain: industrial
Operational conditions	
Concentration of the substance	sodium metabisulphite Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
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.	
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.	

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Use suitable eye protection.	
Risk Management Measures are based on qualitative risk characterisation.	
Exposure estimate and reference to its source	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	5,5 mg/m ³
Risk Characterization Ratio (RCR)	0,55
Assessment method	Qualitative assessment
	Worker - contact with eyes
Guidance to Downstream Users	
For scaling see: http://www.ebrc.de/industrial-chemicals-reach/projects-and-references/mease.php	

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

Manufacture of substance, Industrial applications, (mid powder, medium dustiness)

SU3; SU1, SU2a, SU2b, SU3, SU4, SU5, SU6a, SU6b, SU7, SU8, SU9, SU10, SU11, SU12, SU13, SU14, SU15, SU16, SU17, SU18, SU19, SU20, SU23; ERC1, ERC2, ERC3, ERC4, ERC5, ERC6a, ERC6b, ERC6c, ERC6d, ERC7, ERC8a, ERC8b, ERC8c, ERC8d, ERC8e, ERC8f, ERC9a, ERC9b, ERC10a; PROC1, PROC2, PROC3, PROC4, PROC5, PROC6, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC14, PROC15, PROC16, PROC17, PROC18, PROC19, PROC22, PROC23, PROC24, PROC25, PROC26; 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 PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition PROC4: Chemical production where opportunity for exposure arises PROC5: Mixing or blending in batch processes PROC6:

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	Calendering operations 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). PROC10: Roller application or brushing PROC13: Treatment of articles by dipping and pouring. PROC14: Tableting, compression, extrusion, pelletisation, granulation PROC15: Use a laboratory reagent. PROC16: Use of fuels PROC19: Manual activities involving hand contact 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, medium dustiness
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.	
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	
PROC1	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	0,01 mg/m ³
Risk Characterization Ratio (RCR)	0,001
PROC2, PROC15	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	0,5 mg/m ³
Risk Characterization Ratio (RCR)	0,05

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PROC3, PROC13, PROC14	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	1 mg/m ³
Risk Characterization Ratio (RCR)	0,1
PROC4, PROC5, PROC6, PROC8a, PROC8b, PROC9, PROC10, PROC16, PROC19	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	5 mg/m ³
Risk Characterization Ratio (RCR)	0,5
PROC26	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	4 mg/m ³
Risk Characterization Ratio (RCR)	0,4
PROC1, PROC2, PROC3, PROC4, PROC5, PROC6, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC14, PROC15, PROC16, PROC19, PROC26	
Assessment method	Qualitative assessment
	Worker - contact with eyes
Guidance to Downstream Users	
For scaling see: http://www.ebrc.de/industrial-chemicals-reach/projects-and-references/mease.php	

Contributing exposure scenario	
Use descriptors covered	PROC7: Industrial spraying 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 metabisulphite Content: >= 0 % - <= 100 %
Physical state	Solid, medium dustiness
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 %
Wear suitable face shield Use suitable chemically resistant gloves. Wear suitable working clothes.	
Personal measures have to be applied in case of potential exposure	

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only.	
Use suitable eye protection.	
Risk Management Measures are based on qualitative risk characterisation.	
Exposure estimate and reference to its source	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	4,4 mg/m ³
Risk Characterization Ratio (RCR)	0,44
Assessment method	Qualitative assessment
	Worker - contact with eyes
Guidance to Downstream Users	
For scaling see: http://www.ebrc.de/industrial-chemicals-reach/projects-and-references/mease.php	

Contributing exposure scenario	
Use descriptors covered	PROC22: Manufacturing and processing of minerals and/or metals at substantially elevated temperature PROC23: Open processing and transfer operations at substantially elevated temperature PROC25: Other hot work operations with metals Use domain: industrial
Operational conditions	
Concentration of the substance	sodium metabisulphite Content: >= 0 % - <= 100 %
Physical state	Melted mass, Solid, high dustiness
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.	
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	
PROC22	
Assessment method	MEASE

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	Worker - inhalation, long-term - systemic
Exposure estimate	7 mg/m ³
Risk Characterization Ratio (RCR)	0,7
PROC23, PROC25	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	2 mg/m ³
Risk Characterization Ratio (RCR)	0,2
PROC22, PROC23, PROC25	
Assessment method	Qualitative assessment
	Worker - contact with eyes
Guidance to Downstream Users	
For scaling see: http://www.ebrc.de/industrial-chemicals-reach/projects-and-references/mease.php	

Contributing exposure scenario	
Use descriptors covered	PROC24: High (mechanical) energy work-up of substances bound in /on materials and/or articles Use domain: industrial
Operational conditions	
Concentration of the substance	sodium metabisulphite Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
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.	
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	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	5,5 mg/m ³
Risk Characterization Ratio (RCR)	0,55
Assessment method	Qualitative assessment
	Worker - contact with eyes

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Guidance to Downstream UsersFor scaling see: <http://www.ebrc.de/industrial-chemicals-reach/projects-and-references/mease.php>**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

Manufacture of substance, Industrial applications, (fine powder, high dustiness)

SU3; SU1, SU2a, SU2b, SU3, SU4, SU5, SU6a, SU6b, SU7, SU8, SU9, SU10, SU11, SU12, SU13, SU14, SU15, SU16, SU17, SU18, SU19, SU20, SU23; ERC1, ERC2, ERC3, ERC4, ERC5, ERC6a, ERC6b, ERC6c, ERC6d, ERC7, ERC8a, ERC8b, ERC8c, ERC8d, ERC8e, ERC8f, ERC9a, ERC9b, ERC10a; PROC1, PROC2, PROC3, PROC4, PROC5, PROC6, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC14, PROC15, PROC16, PROC17, PROC18, PROC19, PROC22, PROC23, PROC24, PROC25, PROC26; 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 PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition PROC13: Treatment of articles by dipping and pouring. PROC15: Use a laboratory reagent.
Use domain: industrial

Operational conditions

Concentration of the substance

sodium metabisulphite
Content: >= 0 % - <= 100 %

Physical state

Solid, high dustiness

Duration and Frequency of activity

480 min 5 days per week

Indoor/Outdoor

Indoor

Risk Management Measures

Avoid frequent and direct contact with

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substance. Clean equipment and the work area every day.	
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	
PROC1	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	0,01 mg/m ³
Risk Characterization Ratio (RCR)	0,001
PROC2, PROC3	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	1 mg/m ³
Risk Characterization Ratio (RCR)	0,1
PROC13, PROC15	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	5 mg/m ³
Risk Characterization Ratio (RCR)	0,5
PROC1, PROC2, PROC3, PROC13, PROC15	
Assessment method	Qualitative assessment
	Worker - contact with eyes
Guidance to Downstream Users	
For scaling see: http://www.ebrc.de/industrial-chemicals-reach/projects-and-references/mease.php	

Contributing exposure scenario	
Use descriptors covered	PROC4: Chemical production where opportunity for exposure arises PROC5: Mixing or blending in batch processes PROC6: Calendering operations 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). PROC10: Roller application or brushing PROC14: Tableting, compression, extrusion, pelletisation, granulation PROC16: Use of fuels PROC26: Handling of solid inorganic substances at ambient temperature Use domain: industrial

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Operational conditions	
Concentration of the substance	sodium metabisulphite Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
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	
PROC4, PROC5, PROC6, PROC8b	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	5,5 mg/m ³
Risk Characterization Ratio (RCR)	0,55
PROC9	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	4,4 mg/m ³
Risk Characterization Ratio (RCR)	0,44
PROC10, PROC14, PROC16, PROC26	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	2,2 mg/m ³
Risk Characterization Ratio (RCR)	0,22
PROC4, PROC5, PROC6, PROC8b, PROC9, PROC10, PROC14, PROC16, PROC26	
Assessment method	Qualitative assessment
	Worker - contact with eyes
Guidance to Downstream Users	
For scaling see: http://www.ebrc.de/industrial-chemicals-reach/projects-and-references/mease.php	
Contributing exposure scenario	
Use descriptors covered	PROC7: Industrial spraying PROC8a: Transfer of

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	substance or mixture (charging and discharging) at non-dedicated facilities 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 metabisulphite Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
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.	
Wear a respirator mask FFP1 conforming to DIN EN 149	
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	5,5 mg/m ³
Risk Characterization Ratio (RCR)	0,55
PROC8a, PROC17, PROC18	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	2,75 mg/m ³
Risk Characterization Ratio (RCR)	0,275
PROC7, PROC8a, PROC17, PROC18	
Assessment method	Qualitative assessment
	Worker - contact with eyes
Guidance to Downstream Users	
For scaling see: http://www.ebrc.de/industrial-chemicals-reach/projects-and-references/mease.php	

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Contributing exposure scenario	
Use descriptors covered	PROC19: Manual activities involving hand contact Use domain: industrial
Operational conditions	
Concentration of the substance	sodium metabisulphite Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
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.	
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.	
Wear a respirator mask FFP1 conforming to DIN EN 149	
Use suitable eye protection.	
Risk Management Measures are based on qualitative risk characterisation.	
Exposure estimate and reference to its source	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	6,25 mg/m ³
Risk Characterization Ratio (RCR)	0,625
Assessment method	Qualitative assessment
	Worker - contact with eyes
Guidance to Downstream Users	
For scaling see: http://www.ebrc.de/industrial-chemicals-reach/projects-and-references/mease.php	

Contributing exposure scenario	
Use descriptors covered	PROC22: Manufacturing and processing of minerals and/or metals at substantially elevated temperature PROC23: Open processing and transfer operations at substantially elevated temperature PROC25: Other hot work operations with metals Use domain: industrial
Operational conditions	

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Concentration of the substance	sodium metabisulphite Content: $\geq 0\%$ - $\leq 100\%$
Physical state	Melted mass, Solid, high dustiness
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.	
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	
PROC22	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	7 mg/m ³
Risk Characterization Ratio (RCR)	0,7
PROC23, PROC25	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	2 mg/m ³
Risk Characterization Ratio (RCR)	0,2
PROC22, PROC23, PROC25	
Assessment method	Qualitative assessment
	Worker - contact with eyes
Guidance to Downstream Users	
For scaling see: http://www.ebrc.de/industrial-chemicals-reach/projects-and-references/mease.php	
Contributing exposure scenario	
Use descriptors covered	PROC24: High (mechanical) energy work-up of substances bound in /on materials and/or articles Use domain: industrial
Operational conditions	
Concentration of the substance	sodium metabisulphite Content: $\geq 0\%$ - $\leq 100\%$
Physical state	Solid, high dustiness

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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.	
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	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	5,5 mg/m ³
Risk Characterization Ratio (RCR)	0,55
Assessment method	Qualitative assessment
	Worker - contact with eyes
Guidance to Downstream Users	
For scaling see: http://www.ebrc.de/industrial-chemicals-reach/projects-and-references/mease.php	
Contributing exposure scenario	
Use descriptors covered	As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

5. Short title of exposure scenario

Professional applications, (liquid preparations), (handling as solid in solution)

SU22; SU22; ERC1, ERC2, ERC3, ERC4, ERC5, ERC6a, ERC6b, ERC6c, ERC6d, ERC7, ERC8a, ERC8b, ERC8c, ERC8d, ERC8e, ERC8f, ERC9a, ERC9b, ERC10a; 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, PC39, PC40

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	PROC2: Chemical production or refinery in closed

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	<p>continuous process with occasional controlled exposure or processes with equivalent containment conditions PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition 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 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). PROC10: Roller application or brushing PROC12: Use of blowing agents in manufacture of foam PROC13: Treatment of articles by dipping and pouring. PROC14: Tableting, compression, extrusion, pelletisation, granulation PROC15: Use a laboratory reagent. PROC16: Use of fuels PROC17: Lubrication at high energy conditions in metal working operations PROC18: General greasing /lubrication at high kinetic energy conditions PROC19: Manual activities involving hand contact PROC20: Use of functional fluids in small devices</p> <p>Use domain: professional</p>
Operational conditions	
Concentration of the substance	sodium metabisulphite Content: >= 0 % - <= 100 %
Physical state	paste-like
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.	
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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Product: **Sodium Metabisulfite food grade (E223)**

(ID no. 30042375/SDS_GEN_DE/EN)

Date of print 29.03.2023

Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	0,001 mg/m ³
Risk Characterization Ratio (RCR)	< 0,001
PROC3, PROC15	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	0,01 mg/m ³
Risk Characterization Ratio (RCR)	0,001
PROC4, PROC5, PROC14	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	0,1 mg/m ³
Risk Characterization Ratio (RCR)	0,01
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
PROC16, PROC18	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	0,5 mg/m ³
Risk Characterization Ratio (RCR)	0,05
PROC17	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	1 mg/m ³
Risk Characterization Ratio (RCR)	0,1
PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC10, PROC12, PROC13, PROC14, PROC15, PROC16, PROC17, PROC18, PROC19, PROC20	
Assessment method	Qualitative assessment
	Worker - contact with eyes
Guidance to Downstream Users	
For scaling see: http://www.ebrc.de/industrial-chemicals-reach/projects-and-references/mease.php	

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	paste-like
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor

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

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Risk Management Measures	
Avoid frequent and direct contact with substance. Clean equipment and the work area every day.	
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.	
Wear a respirator mask FFP1 conforming to DIN EN 149	
Use suitable eye protection.	
Risk Management Measures are based on qualitative risk characterisation.	
Exposure estimate and reference to its source	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	5 mg/m ³
Risk Characterization Ratio (RCR)	0,5
Assessment method	Qualitative assessment
	Worker - contact with eyes
Guidance to Downstream Users	
For scaling see: http://www.ebrc.de/industrial-chemicals-reach/projects-and-references/mease.php	
Contributing exposure scenario	
Use descriptors covered	As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

6. Short title of exposure scenario

Professional applications, (granules, low dustiness)

SU22; SU22; ERC1, ERC2, ERC3, ERC4, ERC5, ERC6a, ERC6b, ERC6c, ERC6d, ERC7, ERC8a, ERC8b, ERC8c, ERC8d, ERC8e, ERC8f, ERC9a, ERC9b, ERC10a; PROC2, PROC3, PROC4, PROC5, PROC6, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC14, PROC15, PROC16, PROC17, PROC18, PROC19, PROC21, PROC22, PROC23, PROC24, PROC25, PROC26; 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

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	<p>continuous process with occasional controlled exposure or processes with equivalent containment conditions PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition PROC4: Chemical production where opportunity for exposure arises PROC5: Mixing or blending in batch processes PROC6: Calendering operations 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). PROC10: Roller application or brushing PROC11: Non industrial spraying PROC13: Treatment of articles by dipping and pouring. PROC14: Tableting, compression, extrusion, pelletisation, granulation PROC15: Use a laboratory reagent. PROC16: Use of fuels PROC18: General greasing /lubrication at high kinetic energy conditions PROC19: Manual activities involving hand contact PROC21: Low energy manipulation and handling of substances bound in/on materials or articles PROC26: Handling of solid inorganic substances at ambient temperature Use domain: professional</p>
Operational conditions	
Concentration of the substance	sodium metabisulphite Content: >= 0 % - <= 100 %
Physical state	Solid, low dustiness
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.	
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	

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Date of print 29.03.2023

PROC2	
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	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	0,1 mg/m ³
Risk Characterization Ratio (RCR)	0,01
PROC4, PROC5, PROC6, PROC11, PROC14	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	1 mg/m ³
Risk Characterization Ratio (RCR)	0,1
PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC19, PROC21	
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	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	5 mg/m ³
Risk Characterization Ratio (RCR)	0,5
PROC26	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	3 mg/m ³
Risk Characterization Ratio (RCR)	0,3
PROC2, PROC3, PROC4, PROC5, PROC6, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC14, PROC15, PROC16, PROC18, PROC19, PROC21, PROC26	
Assessment method	Qualitative assessment
	Worker - contact with eyes
Guidance to Downstream Users	
For scaling see: http://www.ebrc.de/industrial-chemicals-reach/projects-and-references/mease.php	

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 metabisulphite Content: >= 0 % - <= 100 %
Physical state	Solid, low dustiness
Duration and Frequency of activity	480 min 5 days per week

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Indoor/Outdoor	Indoor
Risk Management Measures	
Avoid frequent and direct contact with substance. Clean equipment and the work area every day.	
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.	
Wear a respirator mask FFP1 conforming to DIN EN 149	
Use suitable eye protection.	
Risk Management Measures are based on qualitative risk characterisation.	
Exposure estimate and reference to its source	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	2,5 mg/m ³
Risk Characterization Ratio (RCR)	0,25
Assessment method	Qualitative assessment
	Worker - contact with eyes
Guidance to Downstream Users	
For scaling see: http://www.ebrc.de/industrial-chemicals-reach/projects-and-references/mease.php	
Contributing exposure scenario	
Use descriptors covered	PROC22: Manufacturing and processing of minerals and/or metals at substantially elevated temperature Use domain: professional
Operational conditions	
Concentration of the substance	sodium metabisulphite Content: >= 0 % - <= 100 %
Physical state	Melted mass, Solid, high dustiness
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.	
Wear suitable face shield Use suitable chemically resistant gloves. Wear suitable working clothes.	

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

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Personal measures have to be applied in case of potential exposure only.	
Wear a respirator mask FFP1 conforming to DIN EN 149	
Use suitable eye protection.	
Risk Management Measures are based on qualitative risk characterisation.	
Exposure estimate and reference to its source	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	2,5 mg/m ³
Risk Characterization Ratio (RCR)	0,25
Assessment method	Qualitative assessment
	Worker - contact with eyes
Guidance to Downstream Users	
For scaling see: http://www.ebrc.de/industrial-chemicals-reach/projects-and-references/mease.php	

Contributing exposure scenario	
Use descriptors covered	PROC24: High (mechanical) energy work-up of substances bound in /on materials and/or articles Use domain: professional
Operational conditions	
Concentration of the substance	sodium metabisulphite Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
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.	
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	
Assessment method	MEASE

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	Worker - inhalation, long-term - systemic
Exposure estimate	5,5 mg/m ³
Risk Characterization Ratio (RCR)	0,55
Assessment method	Qualitative assessment
	Worker - contact with eyes
Guidance to Downstream Users	
For scaling see: http://www.ebrc.de/industrial-chemicals-reach/projects-and-references/mease.php	

Contributing exposure scenario	
Use descriptors covered	PROC23: Open processing and transfer operations at substantially elevated temperature PROC25: Other hot work operations with metals Use domain: professional
Operational conditions	
Concentration of the substance	sodium metabisulphite Content: >= 0 % - <= 100 %
Physical state	Melted mass, Solid, high dustiness
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.	
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	
PROC23	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	5 mg/m ³
Risk Characterization Ratio (RCR)	0,5
PROC25	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	4 mg/m ³
Risk Characterization Ratio (RCR)	0,4
PROC23, PROC25	

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Assessment method	Qualitative assessment
	Worker - contact with eyes
Guidance to Downstream Users	
For scaling see: http://www.ebrc.de/industrial-chemicals-reach/projects-and-references/mease.php	

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

* * * * *

7. Short title of exposure scenario

Professional applications, (mid powder, medium dustiness)

SU22; SU22; ERC1, ERC2, ERC3, ERC4, ERC5, ERC6a, ERC6b, ERC6c, ERC6d, ERC7, ERC8a, ERC8b, ERC8c, ERC8d, ERC8e, ERC8f, ERC9a, ERC9b, ERC10a; PROC2, PROC3, PROC4, PROC5, PROC6, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC14, PROC15, PROC16, PROC17, PROC18, PROC19, PROC22, PROC23, PROC24, PROC25, PROC26; 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 PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition PROC4: Chemical production where opportunity for exposure arises PROC5: Mixing or blending in batch processes PROC6: Calendering operations PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). PROC10: Roller application or brushing PROC13: Treatment of articles by dipping and pouring. PROC14: Tableting, compression, extrusion, pelletisation, granulation PROC15: Use a laboratory reagent. PROC19: Manual activities involving hand contact PROC26: Handling of solid inorganic substances at ambient temperature 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 Use domain: professional
Operational conditions	

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Concentration of the substance	sodium metabisulphite Content: >= 0 % - <= 100 %
Physical state	Solid, medium dustiness
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.	
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, PROC3	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	1 mg/m ³
Risk Characterization Ratio (RCR)	0,1
PROC4, PROC5, PROC6, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC14, PROC19	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	5 mg/m ³
Risk Characterization Ratio (RCR)	0,5
PROC15	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	0,5 mg/m ³
Risk Characterization Ratio (RCR)	0,05
PROC26	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	8 mg/m ³
Risk Characterization Ratio (RCR)	0,8
PROC2, PROC3, PROC4, PROC5, PROC6, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC14, PROC15, PROC19, PROC26	
Assessment method	Qualitative assessment
	Worker - contact with eyes
Guidance to Downstream Users	
For scaling see: http://www.ebrc.de/industrial-chemicals-reach/projects-and-references/mease.php	

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Contributing exposure scenario	
Use descriptors covered	PROC11: Non industrial spraying PROC16: Use of fuels PROC17: Lubrication at high energy conditions in metal working operations PROC18: General greasing /lubrication at high kinetic energy conditions Use domain: professional
Operational conditions	
Concentration of the substance	sodium metabisulphite Content: >= 0 % - <= 100 %
Physical state	Solid, medium dustiness
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.	
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.	
Wear a respirator mask FFP1 conforming to DIN EN 149	
Relevant for PROC 11, Relevant for PROC 16	
Use suitable eye protection.	
Risk Management Measures are based on qualitative risk characterisation.	
Wear a respirator mask FFP2 conforming to DIN EN 149	
Relevant for PROC 17, Relevant for PROC 18	
Exposure estimate and reference to its source	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	5 mg/m ³
Risk Characterization Ratio (RCR)	0,5
Assessment method	Qualitative assessment
	Worker - contact with eyes
Guidance to Downstream Users	
For scaling see: http://www.ebrc.de/industrial-chemicals-reach/projects-and-references/mease.php	

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Contributing exposure scenario	
Use descriptors covered	PROC22: Manufacturing and processing of minerals and/or metals at substantially elevated temperature Use domain: professional
Operational conditions	
Concentration of the substance	sodium metabisulphite Content: >= 0 % - <= 100 %
Physical state	Melted mass, Solid, high dustiness
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.	
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.	
Wear a respirator mask FFP1 conforming to DIN EN 149	
Use suitable eye protection.	
Risk Management Measures are based on qualitative risk characterisation.	
Exposure estimate and reference to its source	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	2,5 mg/m ³
Risk Characterization Ratio (RCR)	0,25
Assessment method	Qualitative assessment
	Worker - contact with eyes
Guidance to Downstream Users	
For scaling see: http://www.ebrc.de/industrial-chemicals-reach/projects-and-references/mease.php	

Contributing exposure scenario	
Use descriptors covered	PROC23: Open processing and transfer operations at substantially elevated temperature PROC25: Other hot work operations with metals Use domain: professional
Operational conditions	
Concentration of the substance	sodium metabisulphite Content: >= 0 % - <= 100 %

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

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Physical state	Melted mass, Solid, high dustiness
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.	
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	
PROC23	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	5 mg/m ³
Risk Characterization Ratio (RCR)	0,5
PROC25	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	4 mg/m ³
Risk Characterization Ratio (RCR)	0,4
PROC23, PROC25	
Assessment method	Qualitative assessment
	Worker - contact with eyes
Guidance to Downstream Users	
For scaling see: http://www.ebrc.de/industrial-chemicals-reach/projects-and-references/mease.php	
Contributing exposure scenario	
Use descriptors covered	PROC24: High (mechanical) energy work-up of substances bound in /on materials and/or articles Use domain: professional
Operational conditions	
Concentration of the substance	sodium metabisulphite Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Duration and Frequency of activity	480 min 5 days per week

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Date of print 29.03.2023

Indoor/Outdoor	Indoor
Risk Management Measures	
Avoid frequent and direct contact with substance. Clean equipment and the work area every day.	
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	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	5,5 mg/m ³
Risk Characterization Ratio (RCR)	0,55
Assessment method	Qualitative assessment
	Worker - contact with eyes
Guidance to Downstream Users	
For scaling see: http://www.ebrc.de/industrial-chemicals-reach/projects-and-references/mease.php	

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

8. Short title of exposure scenario

Professional applications, (fine powder, high dustiness)

SU22; SU22; ERC1, ERC2, ERC3, ERC4, ERC5, ERC6a, ERC6b, ERC6c, ERC6d, ERC7, ERC8a, ERC8b, ERC8c, ERC8d, ERC8e, ERC8f, ERC9a, ERC9b, ERC10a; PROC2, PROC3, PROC4, PROC5, PROC6, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC14, PROC15, PROC16, PROC17, PROC18, PROC19, PROC22, PROC23, PROC24, PROC25, PROC26; 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

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	processes with equivalent containment conditions PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition PROC13: Treatment of articles by dipping and pouring. PROC15: Use a laboratory reagent. Use domain: professional
Operational conditions	
Concentration of the substance	sodium metabisulphite Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
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.	
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	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	5 mg/m ³
Risk Characterization Ratio (RCR)	0,5
Assessment method	Qualitative assessment
	Worker - contact with eyes
Guidance to Downstream Users	
For scaling see: http://www.ebrc.de/industrial-chemicals-reach/projects-and-references/mease.php	
Contributing exposure scenario	
Use descriptors covered	PROC4: Chemical production where opportunity for exposure arises PROC5: Mixing or blending in batch processes PROC6: Calendring operations 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

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	preparation into small containers (dedicated filling line, including weighing). PROC10: Roller application or brushing PROC14: Tableting, compression, extrusion, pelletisation, granulation PROC16: Use of fuels PROC26: Handling of solid inorganic substances at ambient temperature Use domain: professional
Operational conditions	
Concentration of the substance	sodium metabisulphite Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
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.	
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.	
Wear a respirator mask FFP1 conforming to DIN EN 149	
Relevant for PROC 9, Relevant for PROC 10, Relevant for PROC26	
Use suitable eye protection.	
Risk Management Measures are based on qualitative risk characterisation.	
Wear a respirator mask FFP2 conforming to DIN EN 149	
Relevant for PROC 4, Relevant for PROC 5, Relevant for PROC 6, Relevant for PROC 8a, Relevant for PROC 8b, Relevant for PROC 14, Relevant for PROC 16, Relevant for PROC 19	
Exposure estimate and reference to its source	
PROC4, PROC5, PROC6, PROC8a, PROC8b, PROC9, PROC14, PROC16, PROC26	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	5 mg/m ³
Risk Characterization Ratio (RCR)	0,5

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PROC10	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	2,5 mg/m ³
Risk Characterization Ratio (RCR)	0,25
Assessment method	Qualitative assessment
	Worker - contact with eyes
Guidance to Downstream Users	
For scaling see: http://www.ebrc.de/industrial-chemicals-reach/projects-and-references/mease.php	

Contributing exposure scenario	
Use descriptors covered	PROC11: Non industrial spraying PROC17: Lubrication at high energy conditions in metal working operations PROC18: General greasing /lubrication at high kinetic energy conditions Use domain: professional
Operational conditions	
Concentration of the substance	sodium metabisulphite Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Duration and Frequency of activity	60 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.	
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.	
Wear a respirator mask FFP2 conforming to DIN EN 149	
Use suitable eye protection.	
Risk Management Measures are based on qualitative risk characterisation.	
Exposure estimate and reference to its source	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	4 mg/m ³
Risk Characterization Ratio (RCR)	0,4
Assessment method	Qualitative assessment
	Worker - contact with eyes

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Guidance to Downstream UsersFor scaling see: <http://www.ebrc.de/industrial-chemicals-reach/projects-and-references/mease.php>

Contributing exposure scenario	
Use descriptors covered	PROC22: Manufacturing and processing of minerals and/or metals at substantially elevated temperature Use domain: professional
Operational conditions	
Concentration of the substance	sodium metabisulphite Content: >= 0 % - <= 100 %
Physical state	Melted mass, Solid, high dustiness
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.	
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.	
Wear a respirator mask FFP1 conforming to DIN EN 149	
Use suitable eye protection.	
Risk Management Measures are based on qualitative risk characterisation.	
Exposure estimate and reference to its source	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	2,5 mg/m ³
Risk Characterization Ratio (RCR)	0,25
Assessment method	Qualitative assessment
	Worker - contact with eyes
Guidance to Downstream Users	
For scaling see: http://www.ebrc.de/industrial-chemicals-reach/projects-and-references/mease.php	
Contributing exposure scenario	
Use descriptors covered	PROC23: Open processing and transfer operations at substantially elevated temperature PROC25: Other hot work operations with metals Use domain: professional

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Operational conditions	
Concentration of the substance	sodium metabisulphite Content: >= 0 % - <= 100 %
Physical state	Melted mass, Solid, high dustiness
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.	
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	
PROC23	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	5 mg/m ³
Risk Characterization Ratio (RCR)	0,5
PROC25	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	4 mg/m ³
Risk Characterization Ratio (RCR)	0,4
PROC23, PROC25	
Assessment method	Qualitative assessment
	Worker - contact with eyes
Guidance to Downstream Users	
For scaling see: http://www.ebrc.de/industrial-chemicals-reach/projects-and-references/mease.php	
Contributing exposure scenario	
Use descriptors covered	PROC24: High (mechanical) energy work-up of substances bound in /on materials and/or articles Use domain: professional
Operational conditions	
Concentration of the substance	sodium metabisulphite Content: >= 0 % - <= 100 %

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Physical state	Solid, high dustiness
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.	
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	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	5,5 mg/m ³
Risk Characterization Ratio (RCR)	0,55
Assessment method	Qualitative assessment
	Worker - contact with eyes
Guidance to Downstream Users	
For scaling see: http://www.ebrc.de/industrial-chemicals-reach/projects-and-references/mease.php	

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

9. Short title of exposure scenario

Use in/as Photochemicals, (consumer use)

SU21; SU21; ERC8b; PC30

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	PC30: Photochemicals. exposure of adults
Operational conditions	

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Concentration of the substance	sodium metabisulphite Content: $\geq 10\%$ - $\leq 20\%$
Physical state	liquid
Duration and Frequency of activity	< 15 min 1 uses per day
Indoor/Outdoor	Indoor
Exposed skin area	Palm of both hands (430 cm ²)
Risk Management Measures	
Application Area	Consumer use
Route of exposure	Eye
Consumer Measures	Use suitable eye protection.
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment
	Consumer - inhalation, long-term - systemic
	Exposure is considered negligible.
Assessment method	Qualitative assessment
	Consumer - contact with eyes

Contributing exposure scenario	
Use descriptors covered	PC30: Photochemicals. exposure of adults
Operational conditions	
Concentration of the substance	sodium metabisulphite Content: $\geq 10\%$ - $\leq 20\%$
Physical state	Solid
Duration and Frequency of activity	< 15 min 1 uses per day
Indoor/Outdoor	Indoor
Room size	10 m ³
Exposed skin area	Both hands (860 cm ²)
Risk Management Measures	
Application Area	Consumer use
Route of exposure	Eye
Consumer Measures	Use suitable eye protection.
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment
	Consumer - contact with eyes
Assessment method	Other consideration (non-standard tool)
	Consumer - inhalation, long-term - systemic
Exposure estimate	0,0024 mg/m ³
Risk Characterization Ratio (RCR)	0,00024
Assessment method	Other consideration (non-standard tool)
	Consumer - inhalation, long-term - systemic
Exposure estimate	0,024 mg/m ³
Risk Characterization Ratio (RCR)	0,0024

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Worst case assumption

Contributing exposure scenario	
Use descriptors covered	PC30: Photochemicals. exposure of adults
Operational conditions	
Concentration of the substance	sodium metabisulphite Content: >= 0 % - <= 10 %
Physical state	liquid
Duration and Frequency of activity	< 15 min 2 uses per day
Indoor/Outdoor	Indoor
Exposed skin area	Both hands (860 cm ²)
Risk Management Measures	
Application Area	Consumer use
Route of exposure	Eye
Consumer Measures	Use suitable eye protection.
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment
	Consumer - inhalation, long-term - systemic
	Exposure is considered negligible.
Assessment method	Qualitative assessment
	Consumer - contact with eyes

Contributing exposure scenario	
Use descriptors covered	PC30: Photochemicals. exposure of adults
Operational conditions	
Concentration of the substance	sodium metabisulphite Content: >= 0 % - <= 10 %
Physical state	liquid
Duration and Frequency of activity	10 min 2 uses per day
Indoor/Outdoor	Indoor
Exposed skin area	Fingertips (36 cm ²)
Risk Management Measures	
Application Area	Consumer use
Route of exposure	Eye
Consumer Measures	Use suitable eye protection.
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment
	Consumer - inhalation, long-term - systemic
	Exposure is considered negligible.
Assessment method	Qualitative assessment

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Consumer - 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.

10. Short title of exposure scenario

Production of woodbased materials (panels, bricks, etc), (use in industrial settings)

SU3; SU3, SU6a, SU18; ERC5, ERC6b; PROC4, PROC5, 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
 PROC5: Mixing or blending in batch processes
 PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities
 Use domain: industrial

Operational conditions

Concentration of the substance

sodium metabisulphite
Content: $\geq 0\%$ - $\leq 100\%$

Physical state

Solid, high dustiness

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.

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Exposure estimate and reference to its source	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	5,5 mg/m ³
Risk Characterization Ratio (RCR)	0,55
Assessment method	Qualitative assessment
	Worker - contact with eyes
Guidance to Downstream Users	
For scaling see: http://www.ebrc.de/industrial-chemicals-reach/projects-and-references/mease.php	

Contributing exposure scenario	
Use descriptors covered	PROC6: Calendering operations Use domain: industrial
Operational conditions	
Concentration of the substance	sodium metabisulphite Content: >= 0 % - <= 100 %
Physical state	Solid, medium dustiness
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.	
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	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	5 mg/m ³
Risk Characterization Ratio (RCR)	0,5
Assessment method	Qualitative assessment
	Worker - contact with eyes
Guidance to Downstream Users	
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Contributing exposure scenario	
Use descriptors covered	PROC21: Low energy manipulation and handling of

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	substances bound in/on materials or articles Use domain: industrial
Operational conditions	
Concentration of the substance	sodium metabisulphite Content: $\geq 0\%$ - $\leq 100\%$
Physical state	Solid, low dustiness
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.	
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	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	0,5 mg/m ³
Risk Characterization Ratio (RCR)	0,05
Assessment method	Qualitative assessment
	Worker - contact with eyes
Guidance to Downstream Users	
For scaling see: http://www.ebrc.de/industrial-chemicals-reach/projects-and-references/mease.php	

Contributing exposure scenario	
Use descriptors covered	PROC24: High (mechanical) energy work-up of substances bound in /on materials and/or articles Use domain: industrial
Operational conditions	
Concentration of the substance	sodium metabisulphite Content: $\geq 0\%$ - $\leq 100\%$
Physical state	Solid, high dustiness
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor

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Risk Management Measures	
Avoid frequent and direct contact with substance. Clean equipment and the work area every day.	
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	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	5,5 mg/m ³
Risk Characterization Ratio (RCR)	0,55
Assessment method	Qualitative assessment
	Worker - contact with eyes
Guidance to Downstream Users	
For scaling see: http://www.ebrc.de/industrial-chemicals-reach/projects-and-references/mease.php	

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

* * * * *

11. Short title of exposure scenario

Use in Wood articles, (use in professional settings)

SU22; SU6a, SU18, SU22; 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 Use domain: professional
Operational conditions	
Concentration of the substance	sodium metabisulphite Content: >= 0 % - <= 100 %

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Physical state	Solid, low dustiness
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.	
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	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	0,5 mg/m ³
Risk Characterization Ratio (RCR)	0,05
Assessment method	Qualitative assessment
	Worker - contact with eyes
Guidance to Downstream Users	
For scaling see: http://www.ebrc.de/industrial-chemicals-reach/projects-and-references/mease.php	

Contributing exposure scenario	
Use descriptors covered	PROC24: High (mechanical) energy work-up of substances bound in /on materials and/or articles Use domain: professional
Operational conditions	
Concentration of the substance	sodium metabisulphite Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
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.	
Wear suitable face shield Use suitable chemically resistant gloves. Wear suitable working clothes.	

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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	
Assessment method	MEASE
	Worker - inhalation, long-term - systemic
Exposure estimate	5,5 mg/m ³
Risk Characterization Ratio (RCR)	0,55
Assessment method	Qualitative assessment
	Worker - contact with eyes
Guidance to Downstream Users	
For scaling see: http://www.ebrc.de/industrial-chemicals-reach/projects-and-references/mease.php	

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