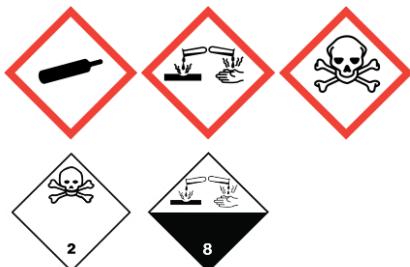


**Danger****SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Trade name	: Sulphur dioxide 3.8
SDS no	: EIGA113
Other means of identification	: Sulphur dioxide
CAS no.	: 7446-09-5
EC no.	: 231-195-2
Index no.	: 016-011-00-9
REACH no.	: 01-2119485028-34
Chemical formula	: SO <sub>2</sub>

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

Relevant identified uses	: See the list of identified uses and exposure scenarios in the annex of the safety data sheet. Industrial and professional uses. Perform risk assessment prior to use.
Uses advised against	: Consumer use. Uses other than those listed above are not supported, contact your supplier for more information on other uses.

**1.3. Details of the supplier of the safety data sheet**

Messer Tehnogas AD Beograd  
Banjicki put no. 62  
11090 Belgrade, Serbia  
Telephone: +381 11 35 37 200 Fax: +381 11 35 37 291  
e-mail: [postoffice@messer.rs](mailto:postoffice@messer.rs)  
Web: [www.messer.rs](http://www.messer.rs)

**Person responsible for the safety data sheet:**  
Tamara Ječmenica, Chemicals Advisor  
Telephone: +381 65 35 37 785  
e-mail: [sds@messer.rs](mailto:sds@messer.rs)

**1.4. Emergency telephone number**

Emergency telephone number : Poison Control Center, VMA  
Crnotravska 17, Belgrade Serbia  
Tel. : +381(0) 11 360 8440 (24h)

**SECTION 2 : Hazards identification****2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Physical hazards	Gases under pressure : Liquefied gas	H280
Health hazards	Skin corrosion/irritation, Category 1, Sub-Category 1B Acute toxicity (inhalation:gas) Category 3	H314 H331

# Safety Data Sheet

## Sulphur dioxide

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
Referentni broj: RS-SO2-113

### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS04

GHS05

GHS06

Signal word (CLP) :

Danger

Hazard statements (CLP) :

- H280 - Contains gas under pressure; may explode if heated.
- H314 - Causes severe skin burns and eye damage.
- H331 - Toxic if inhaled.
- EUH071 - Corrosive to the respiratory tract.

Precautionary statements (CLP) :

- Prevention

- P260 - Do not breathe gas, vapours.
- P264 - Wash exposed body parts thoroughly after handling.
- P271 - Use only outdoors or in a well-ventilated area.
- P280 - Wear protective gloves, protective clothing, eye protection, face protection, hand protection.

- Response

- P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water / shower.
- P304+P340 - IF INHALED : Remove person to fresh air and keep comfortable for breathing.
- P305+P351+P338 - IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P310 - Immediately call a POISON CENTER or doctor.
- P321 - Specific treatment.
- P363 - Wash contaminated clothing before reuse.

- Storage

- P403+P410+P233 - Protect from sunlight. Store in a well-ventilated place. Keep container tightly closed.
- P405 - Store locked up.

- Disposal

- P501 - Dispose of container in accordance with local, regional, national and/or international regulation.

### 2.3. Other hazards

Not classified as PBT or vPvB. Not classified as PMT or vPvM.

The substance/mixture has no endocrine disrupting properties.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP] ATE, EUH-statements, M-Factors
Sulphur dioxide	CAS no.: 7446-09-5 EC no.: 231-195-2 Index no.: 016-011-00-9 REACH no.: 01-2119485028-34	≤ 100	Press. Gas (Liq.), H280 Skin Corr. 1B, H314 Eye Dam. 1, H318 Acute Tox. 3 (Inhalation:gas), H331 (ATE=1000 ppmv/4h) STOT SE 1, H370

# Safety Data Sheet

## Sulphur dioxide

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
Referentni broj: RS-SO2-113

Name	Product identifier	Specific concentration limits (%)
Sulphur dioxide	CAS no.: 7446-09-5 EC no.: 231-195-2 Index no.: 016-011-00-9 REACH no.: 01-2119485028-34	(1 ≤ C ≤ 100) STOT SE 2; H371 (10 ≤ C ≤ 100) STOT SE 1; H370

Contains no other components or impurities which will influence the classification of the product.

### 3.2. Mixtures

Not applicable

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

- Inhalation : Get immediate medical help. Provide oxygen. Remove victim to uncontaminated area wearing self contained breathing apparatus. Keep victim warm and rested. Perform cardiopulmonary resuscitation in case of respiratory arrest. Avoid mouth-to-mouth artificial respiration due to the danger to the rescuer.
- Skin contact : Immediately call a POISON CENTER or doctor. Carefully remove contaminated clothing. Rinse clothing with water before removing or use gloves. In case of frostbite spray with water for at least 15 minutes. Mandatory wash contaminated clothing and footwear before reuse. Chemical injuries must be treated by a doctor.
- Eye contact : Get immediate medical attention or call a poison control center. Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses. Continue rinsing. Chemical injuries must be treated by a doctor.
- Ingestion : Ingestion is not considered a potential route of exposure.

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

Prolonged exposure to small concentrations may result in pulmonary oedema.  
May cause severe chemical burns to skin and cornea. Suitable first-aid treatment should be immediately available. Seek medical advice before using product.  
Material is destructive to tissue of the mucous membranes and upper respiratory tract. Cough, shortness of breath, headache, nausea. See section 11.

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

Obtain medical assistance. Loosen tight clothing, such as a collar, tie or belt.  
Place the unconscious person in a lateral position.  
Treat with corticosteroid spray as soon as possible after inhalation.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

- Suitable extinguishing media : Water spray or fog.  
Product does not burn, use fire control measures appropriate for the surrounding fire.
- Unsuitable extinguishing media : Do not use water jet to extinguish.

### 5.2. Special hazards arising from the substance or mixture

- Specific hazards : Exposure to fire may cause containers to rupture/explode.
- Hazardous combustion products : None that are more hazardous than the product itself.

### **5.3. Advice for firefighters**

#### Specific methods

- : Use fire control measures appropriate for the surrounding fire. Exposure to fire and heat radiation may cause gas receptacles to rupture. Cool endangered receptacles with water spray jet from a protected position. Prevent water used in emergency cases from entering sewers and drainage systems. If possible, stop flow of product. Use water spray or fog to knock down fire fumes if possible. Move containers away from the fire area if this can be done without risk.

#### Special protective equipment for fire fighters

- : Wear gas tight chemically protective clothing in combination with self contained breathing apparatus. Standard EN 943-2: Protective clothing against liquid and gaseous chemicals, aerosols and solid particles. Gas-tight chemical protective suits for emergency teams.
- Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask.

## **SECTION 6: Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

#### For non-emergency personnel

- : Act in accordance with local emergency plan. Try to stop release. Evacuate area. Ensure adequate air ventilation. Stay upwind. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.

See section 8 of the SDS for more information on personal protective equipment.

#### For emergency responders

- : Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe. Use chemically protective clothing. Monitor concentration of released product.

See section 5.3 of the SDS for more information.

### **6.2. Environmental precautions**

Reduce vapour with fog or fine water spray. Try to stop release.

### **6.3. Methods and material for containment and cleaning up**

Hose down area with water.

Wash contaminated equipment or sites of leaks with copious quantities of water.

### **6.4. Reference to other sections**

See also sections 8 and 13.

## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

#### Safe use of the product

- : Avoid exposure, obtain special instructions before use. The product must be handled in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke while working with the product. Wash hands after use. Only experienced and properly instructed persons should handle gases under pressure. Wear personal protective equipment (See section 8). Consider pressure relief device(s) in gas installations. Ensure the complete gas system was (or is regularly) checked for leaks before use. Purge system with dry inert gas (e.g. helium or nitrogen) before gas is introduced and when system is placed out of service. Installation of a cross purge assembly between the container and the regulator is recommended. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt. Avoid suck back of water, acid and alkalis. Use only lubricants and sealings approved for the specific gas service. Do not breathe gas. Avoid release of product into work area.

# Safety Data Sheet

## Sulphur dioxide

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Referentni broj: RS-SO2-113

### Safe handling of the gas receptacle

- : Refer to supplier's container handling instructions.
- Protect containers from physical damage; do not drag, roll, slide or drop.
- When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders. Leave valve protection caps in place until the container has been secured against either a wall or bench or placed in a container stand and is ready for use. If the protection cap is too tight, remove it with adjustable wrench. Never insert sharp objects into the cavities of the cap, this can lead to damage to the valve and leakage.
- Open valve slowly to avoid pressure shock. If user experiences any difficulty operating valve discontinue use and contact supplier. Never attempt to repair or modify container valves or safety relief devices. Damaged valves should be reported immediately to the supplier. Keep container valve outlets clean and free from contaminants particularly oil and water. Replace valve outlet caps or plugs and container caps where supplied as soon as container is disconnected from equipment. Close container valve after each use and when empty, even if still connected to equipment. Never attempt to transfer gases from one cylinder/container to another.
- Never use direct flame or electrical heating devices to raise the pressure of a container.
- Do not allow backfeed into the container. Suck back of water into the container must be prevented.
- Do not remove or deface labels provided by the supplier for the identification of the content of the container.

### **7.2. Conditions for safe storage, including any incompatibilities**

- Observe all regulations and local requirements regarding storage of containers.
- Containers should not be stored in conditions likely to encourage corrosion.
- Container valve guards or caps should be in place.
- Containers should be stored in the vertical position and properly secured to prevent them from falling over. Stored containers should be periodically checked for general condition and leakage.
- Keep container below 50°C in a well ventilated place.
- Store containers in location free from fire risk and away from sources of heat and ignition.
- Keep away from combustible materials.
- Store locked up.

### **7.3. Specific end use(s)**

None.

## SECTION 8: Exposure controls/personal protection

### **8.1. Control parameters**

Sulphur dioxide (7446-09-5)	
<b>EU - Indicative Occupational Exposure Limit (IOEL)</b>	
Local name	Sulphur dioxide
IOEL TWA	1.3 mg/m <sup>3</sup>
	0.5 ppm
IOEL STEL	2.7 mg/m <sup>3</sup>
	1 ppm
Regulatory reference	COMMISSION DIRECTIVE (EU) 2017/164

# Safety Data Sheet

## Sulphur dioxide

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Referentni broj: RS-SO2-113

Serbia - Occupational Exposure Limits	
Local name	сумпор-диоксид
OEL TWA	1.3 mg/m <sup>3</sup> 0.5 ppm
OEL STEL	2.7 mg/m <sup>3</sup> 1 ppm
Remark	EY**** – напомена да се ради о хемијским материјама за које су утврђене индикативне граничне вредности изложености према Директиви 2017/164/EU (четврта листа)
Regulatory reference	ПРАВИЛНИК о превентивним мерама за безбедан и здрав рад при излагању хемијским материјама („Службени гласник РС”, бр. 106/09, 117/17 и 107/21)

Sulphur dioxide (7446-09-5)	
DNEL: Derived no effect level (Workers)	
Acute - local effects, inhalation	2.7 mg/m <sup>3</sup>
Long-term - local effects, inhalation	2.7 mg/m <sup>3</sup>

PNEC (Predicted No-Effect Concentration) : None established.

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

Provide adequate general and local exhaust ventilation.

Product to be handled in a closed system.

Systems under pressure should be regularly checked for leakages.

Ensure exposure is below occupational exposure limits (where available).

Gas detectors should be used when toxic gases may be released.

Consider the use of a work permit system e.g. for maintenance activities.

### 8.2.2. Individual protection measures, e.g. personal protective equipment

A risk assessment should be conducted and documented in each work area to assess the risks related to the use of the product and to select the PPE that matches the relevant risk. The following recommendations should be considered:

PPE compliant to the recommended EN/ISO standards should be selected.

#### • Eye/face protection

: Wear goggles and a face shield when transfilling or breaking transfer connections.

Provide readily accessible eye wash stations and safety showers.

Standard EN 166 - Personal eye-protection - specifications.

[Standard EN ISO 16321-1 - Eye and face protection for occupational use Part 1: General requirements.](#)

#### • Skin protection

##### - Hand protection

: Wear working gloves when handling gas containers. Wear chemically resistant protective gloves.

Standard EN 374 - Protective gloves against chemicals.

Standard EN 388 - Protective gloves against mechanical risks, performance level 1 or higher.

Recommended types include wrist gloves from leather or synthetic material with equivalent performance, fabric gloves, fabric gloves with leather palms.

Chloroprene rubber (CR).

- Other

Standard EN 511 - Cold insulating gloves, performance level 1 or higher. Recommended types include insulated gauntlets or gloves specifically selected to prevent liquid penetration and ingress of cryogenic liquids and to provide mechanical resistance.

• Respiratory protection

: Keep suitable chemically resistant protective clothing readily available for emergency use. Standard EN943-1 - Full protective suits against liquid, solid and gaseous chemicals. Wear safety shoes while handling containers. Standard EN ISO 20345 - Personal protective equipment - Safety footwear.

• Thermal hazards

: Recommended: Filter E (yellow). Self contained breathing apparatus is recommended, where unknown exposure may be expected, e.g. during maintenance activities on installation systems. Gas filters may be used if all surrounding conditions e.g. type and concentration of the contaminant(s) and duration of use are known.

Use gas filters with full face mask, where exposure limits may be exceeded for a short-term period, e.g. connecting or disconnecting containers.

Gas filters do not protect against oxygen deficiency.

Standard EN 14387 - Gas filter(s), combined filter(s) and standard EN136, full face masks .

Keep self contained breathing apparatus readily available for emergency use.

Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask.

: None in addition to the above sections.

### 8.2.3. Environmental exposure controls

Refer to local regulations for restriction of emissions to the atmosphere.

See section 13 for specific methods for waste gas treatment.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Appearance

- Physical state at 20°C / 101.3kPa

: Gas.

- Colour

: Colourless.

Odour

: Pungent.

Melting point / Freezing point

: -75.5 °C

Boiling point

: -10 °C

Flammability

: Non flammable.

Lower explosion limit

: Not applicable.

Upper explosion limit

: Not applicable.

Flash point

: Not applicable for gases and gas mixtures.

Auto-ignition temperature

: Non flammable.

Decomposition temperature

: Not applicable.

pH

: If dissolved in water pH-value will be affected.

Viscosity, kinematic

: No reliable data available.

Water solubility [20°C]

: Not available

Partition coefficient n-octanol/water (Log Kow)

: Not applicable for inorganic products.

Vapour pressure [20°C]

: 3.3 bar(a)

Vapour pressure [50°C]

: 8.4 bar(a)

Density and/or relative density

: Not applicable for gases and gas mixtures.

Relative vapour density (air=1)

: 2.3

Particle characteristics

: Not applicable for gases and gas mixtures.

Nanoforms are not relevant for gases and gas mixtures.

**9.2. Other information****9.2.1. Information with regard to physical hazard classes**

Explosion limits	: Not known.
Oxidising properties	: No oxidising properties.
Critical temperature [°C]	: 158 °C

**9.2.2. Other safety characteristics**

Molar mass	: 64 g/mol
Other data	: Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below ground level.

**SECTION 10: Stability and reactivity****10.1. Reactivity**

No reactivity hazard other than the effects described in sub-sections below.

**10.2. Chemical stability**

Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

Violent reactions occur in contact with ammonia, oxidizing agents, strong chlorine, bases.

**10.4. Conditions to avoid**

Avoid moisture in installation systems.

**10.5. Incompatible materials**

May react violently with alkalis.  
Reacts with most metals in the presence of moisture, liberating hydrogen, an extremely flammable gas. In contact with water, sulfuric acid and sulfuric acid are formed. It has a strong corrosive effect on metals in the presence of water.

**10.6. Hazardous decomposition products**

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Acute toxicity	: Toxic if inhaled.
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<b>sulphur dioxide (7446-09-5)</b>	
LC50 Inhalation - Rat [ppm]	2520 ppm/1h (ADR) 1000 ppm/4h (CLP)

<b>Skin corrosion/irritation</b>	: Causes severe skin burns and eye damage.
<b>Serious eye damage/irritation</b>	: Causes serious eye damage.
<b>Respiratory or skin sensitisation</b>	: No known effects from this product.
<b>Germ cell mutagenicity</b>	: No known effects from this product.
<b>Carcinogenicity</b>	: No known effects from this product.

<b>Toxic for reproduction : Fertility</b>	: No known effects from this product.
<b>Toxic for reproduction : unborn child</b>	: No known effects from this product.
<b>STOT-single exposure</b>	: Severe corrosion to the respiratory tract at high concentrations.
<b>STOT-repeated exposure</b>	: No known effects from this product.
<b>Aspiration hazard</b>	: Not applicable for gases and gas mixtures.

### **11.2. Information on other hazards**

Other information	: Delayed fatal pulmonary oedema possible. The substance/mixture has no endocrine disrupting properties.
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## **SECTION 12: Ecological information**

### **12.1. Toxicity**

Assessment	: Classification criteria are not met.
EC50 48h - Daphnia magna [mg/l]	: No data available.
EC50 72h - Algae [mg/l]	: 48.1 mg/l
LC50 96 h - Fish [mg/l]	: No data available.

### **12.2. Persistence and degradability**

Assessment	: Not applicable for inorganic products.
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### **12.3. Bioaccumulative potential**

Assessment	: Product is an inorganic gas with a low potential to bioaccumulate in aquatic species.
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### **12.4. Mobility in soil**

Assessment	: Because of its high volatility, the product is unlikely to cause ground or water pollution. Partition into soil is unlikely.
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### **12.5. Results of PBT and vPvB assessment**

Assessment	: Not classified as PBT or vPvB.
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### **12.6. Endocrine disrupting properties**

Assessment	: The substance/mixture has no endocrine disrupting properties.
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### **12.7. Other adverse effects**

Other adverse effects	: May cause pH changes in aqueous ecological systems. <b>Not classified as PMT or vPvM.</b>
Effect on the ozone layer	: No effect on the ozone layer.
Effect on global warming	: No known effects from this product.

## **SECTION 13: Disposal considerations**

### **13.1. Waste treatment methods**

Gas may be scrubbed in alkaline solution under controlled conditions to avoid violent reaction.  
Contact supplier if guidance is required.  
Ensure that the emission levels from local regulations or operating permits are not exceeded.  
Refer to the EIGA code of practice Doc.30/21 "Disposal of Gases", downloadable at  
<http://www.eiga.eu> for more guidance on suitable disposal methods.  
Must not be discharged to atmosphere.  
Return unused product in original container to supplier.

## Sulphur dioxide

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
Referentni broj: RS-SO2-113

List of hazardous waste codes (from Commission Delegated Decision (EU) 2025/934 of 5 March 2025 amending Decision 2000/532/EC) : 16 05 04 \*: Gases in pressure containers (including halons) containing hazardous substances.

### **13.2. Additional information**

External treatment and disposal of waste should comply with applicable local and/or national regulations.

## **SECTION 14: Transport information**

### **14.1. UN number or ID number**

In accordance with ADR / RID / IMDG / IATA / ADN

UN-No. : 1079

### **14.2. UN proper shipping name**

**Transport by road/rail/inland waterways (ADR/RID/ADN)** : SULPHUR DIOXIDE

**Transport by air (ICAO-TI / IATA-DGR)** : Sulphur dioxide

**Transport by sea (IMDG)** : SULPHUR DIOXIDE

### **14.3. Transport hazard class(es)**

#### **Labelling**



2.3 : Toxic gases.

8 : Corrosive substances.

**Transport by road/rail/inland waterways (ADR/RID/ADN)**

Class : 2

Classification code : 2TC

Hazard identification number : 268

Tunnel Restriction : C/D - Tank carriage : Passage forbidden through tunnels of category C, D and E. Other carriage : Passage forbidden through tunnels of category D and E

**Transport by sea (IMDG)**

Class / Div. (Sub. risk(s)) : 2.3 (8)

Emergency Schedule (EmS) - Fire : F-C

Emergency Schedule (EmS) - Spillage : S-U

### **14.4. Packing group**

Transport by road/rail/inland waterways (ADR/RID/ADN) : Not applicable.

Transport by air (ICAO-TI / IATA-DGR) : Not applicable.

Transport by sea (IMDG) : Not applicable.

### **14.5. Environmental hazards**

Transport by road/rail/inland waterways (ADR/RID/ADN) : None.

Transport by air (ICAO-TI / IATA-DGR) : None.

Transport by sea (IMDG) : None.

## Sulphur dioxide

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### **14.6. Special precautions for user**

#### **Packing Instruction(s)**

Transport by road/rail/inland waterways	: P200.
(ADR/RID/ADN)	
Transport by air (ICAO-TI / IATA-DGR)	
Passenger and Cargo Aircraft	: Forbidden.
Cargo Aircraft only	: Forbidden.
Transport by sea (IMDG)	: P200.
Special transport precautions	<p>: Avoid transport on vehicles where the load space is not separated from the driver's compartment.</p> <p>Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency.</p> <p>Before transporting product containers:</p> <ul style="list-style-type: none"> <li>- Ensure there is adequate ventilation.</li> <li>- Ensure that containers are firmly secured.</li> <li>- Ensure valve is closed and not leaking.</li> <li>- Ensure valve outlet cap nut or plug (where provided) is correctly fitted.</li> <li>- Ensure valve protection device (where provided) is correctly fitted.</li> </ul>

### **14.7. Maritime transport in bulk according to IMO instruments**

Not applicable.

## SECTION 15: Regulatory information

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

#### **RS Regulations**

Pravilnik o ograničenjima i zabranama proizvodnje, stavljanja	: None.
u promet i korišćenja hemikalija ("Sl. glasnik RS", br. 90/13, 25/15, 2/16, 44/17, 36/18, 9/20, 57/22, 29/24 i 90/25)	
Pravilnik o izvozu i uvozu određenih opasnih hemikalija („Sl. glasnik RS“ br. 93/23 i 78/25)	: None.
Zakon o kontroli opasnosti od velikih udesa koji uključuju opasne supstance ("Sl. glasnik RS", br. 94/24)	: Covered.

Pravilnik o Listi opasnih supstanci, vrstama i količinama opasnih supstanci i kriterijumima za razvijanje kompleksa u kompleksu nižeg reda i kompleksa višeg reda ("Sl. glasnik RS", br. 28/25)	Qualifying quantity (tonnes)	
	Lower-tier	Upper-tier
H2 ACUTE TOXIC — Category 2, all exposure routes — Category 3, inhalation exposure route	50	200
H3 STOT SPECIFIC TARGET ORGAN TOXICITY – SINGLE EXPOSURE STOT SE Category 1	50	200

#### **EU Regulations**

Other information, restriction and prohibition regulations	: None.
	Not listed on the PIC list (Regulation EU 649/2012).
	Not listed on the POP list (Regulation EU 2019/1021).

Seveso Directive : 2012/18/EU (Seveso III)	: Covered.
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# Safety Data Sheet

## Sulphur dioxide

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
Referentni broj: RS-SO2-113

Seveso III Part I (Categories of dangerous substances)	Qualifying quantity (tonnes)	
	Lower-tier	Upper-tier
H2 ACUTE TOXIC — Category 2, all exposure routes — Category 3, inhalation exposure route	50	200
H3 STOT SPECIFIC TARGET ORGAN TOXICITY – SINGLE EXPOSURE STOT SE Category 1	50	200

### 15.2. Chemical safety assessment

A CSA has been carried out.

## SECTION 16: Other information

Indication of changes	<ul style="list-style-type: none"> <li>: In Section 1, the Safety Data Sheet is supplemented with information about details of the supplier of the safety data sheet.</li> <li>In Section 2, the Safety Data Sheet is supplemented with other hazards.</li> <li>In Section 8, the Safety Data Sheet is supplemented with information about personal protection.</li> <li>In Section 12, the Safety Data Sheet is supplemented with other adverse effects.</li> <li>In Section 13, the Safety Data Sheet is supplemented with information about waste treatment methods.</li> <li>In Section 15, the Safety Data Sheet is supplemented with regulatory information.</li> </ul>
Abbreviations and acronyms	<ul style="list-style-type: none"> <li>: <a href="#">ADN - International Carriage of Dangerous Goods by Inland Waterways</a></li> <li>ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road</li> <li>ATE - Acute Toxicity Estimate</li> <li>CAS - Chemical Abstract Service number</li> <li>CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008</li> <li>CSA - Chemical Safety Assessment</li> <li>DNEL - Derived No Effect Levels</li> <li>EINECS - European Inventory of Existing Commercial Chemical Substances</li> <li>EC- European Community number</li> <li>EIGA - European Industrial Gases Association</li> <li>EN - European Standard</li> <li>IATA - International Air Transport Association</li> <li>ICAO - International Civil Aviation Organization</li> <li>IMDG - International Maritime Dangerous Goods</li> <li>IMO - International Maritime Organization</li> <li>LC50 - Lethal Concentration to 50 % of a test population</li> <li>LD50 - Lethal Dose 50%</li> <li>LEL - Lower Explosive Limit</li> <li>OEL - Occupational exposure limits</li> <li>PBT - Persistent, Bioaccumulative and Toxic</li> <li><a href="#">PMT - Perzistentno, mobilno i toksično .</a></li> <li>PNEC - Predicted No Effect Concentration</li> <li>PPE - Personal Protection Equipment</li> <li><a href="#">PROC - Procesna kategorija (Process category).</a></li> <li>REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006</li> </ul>

# Safety Data Sheet

## Sulphur dioxide

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
Referentni broj: RS-SO2-113

RID - Regulations concerning the International Carriage of Dangerous Goods by Rail

RMM - Risk Management Measures

STOT - RE - Specific Target Organ Toxicity - Repeated Exposure

STOT - SE - Specific Target Organ Toxicity - Single Exposure

STEL - Short Term Exposure Limit

TWA - 8-hour total weight average

UEL - Upper explosive limit

UFI - Unique Formula Identifier

UN - United Nations

vPvB - Very Persistent and Very Bioaccumulative

vPvM – veoma perzistentno i veoma mobilno.

WGK - Water Hazard Class

### Training advice

- : Receptacle under pressure. Users of breathing apparatus must be trained.
- Ensure operators understand the toxicity hazard.

### Further information

- : Classification in accordance with the procedures and calculation methods of Regulation (EC) 1272/2008 (CLP). Key literature references and sources of data are maintained in EIGA doc 169 : 'Classification and Labelling Guide', downloadable at <http://www.eiga.eu>

Full text of H- and EUH-statements	
Acute Tox. 3* (Inhalation:gas)	Acute toxicity (inhalation:gas) Category 3*
EUH071	Corrosive to the respiratory tract.
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
H280	Contains gas under pressure; may explode if heated.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H331	Toxic if inhaled.
H370	Causes damage to organs.
H371	May cause damage to organs.
Press. Gas (Liq.)	Gases under pressure : Liquefied gas
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
STOT SE 1	Specific target organ toxicity – single exposure, Category 1
STOT SE 2	Specific target organ toxicity – Single exposure, Category 2

### DISCLAIMER OF LIABILITY

- : Before using this product in any new process or experiment, a thorough material compatibility and safety study should be carried out.
- Details given in this document are believed to be correct at the time of going to press.
- Whilst proper care has been taken in the preparation of this document, no liability for injury or damage resulting from its use can be accepted.

**End of Safety Data Sheet**

### Annex to the safety data sheet

This Annex documents the Exposure Scenarios (ESs) related to the identified uses of the registered substance. The ESs detail protective measures for workers and the environment in addition to those described in sections 7, 8, 11, 12 and 13 of the SDS that are required to ensure that the potential exposure to workers and the environment remains within acceptable levels for each of the identified uses.

#### Table of contents of the Annex

Identified Uses	Es N°	Short title	Page
Formulation of mixtures in pressure receptacles	EIGA113-1	Industrial uses, closed contained conditions	<b>15</b>
Calibration of analysis equipment	EIGA113-1	Industrial uses, closed contained conditions	<b>15</b>
Transfilling in pressure receptacles	EIGA113-1	Industrial uses, closed contained conditions	<b>15</b>
Metal treatment	EIGA113-2	Industrial uses, closed and open conditions	<b>20</b>
Feedstock in chemical processes	EIGA113-2	Industrial uses, closed and open conditions	<b>20</b>
Glass coating	EIGA113-2	Industrial uses, closed and open conditions	<b>20</b>
Water treatment	EIGA113-2	Industrial uses, closed and open conditions	<b>20</b>
Lubrication of rollers in glass manufacture	EIGA113-2	Industrial uses, closed and open conditions	<b>20</b>
Resin curing	EIGA113-2	Industrial uses, closed and open conditions	<b>20</b>
Refilling of refrigeration equipment	EIGA113-3	Professional uses	<b>25</b>
Wine making	EIGA113-3	Professional uses	<b>25</b>

# Exposure scenario

## Sulphur dioxide

Annex to the safety data sheet

Reference number: EIGA113

CAS-No.: 7446-09-5 Product form: Substance Physical state: Gas

### 1. EIGA113-1: Industrial uses, closed contained conditions

#### 1.1. Title section

##### Industrial uses, closed contained conditions

ES Ref.: EIGA113-1

Revision date: 10/1/2016

Processes, tasks, activities covered	Industrial uses, including product transfers and associated laboratory activities within different closed or contained systems
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Environment	Use descriptors
CS1	ERC2

Worker	Use descriptors
CS2	PROC1
CS3	PROC8b, PROC9

Assessment method	MEASE
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#### 1.2. Conditions of use affecting exposure

##### 1.2.1. Control of environmental exposure: ERC2

ERC2	Formulation into mixture
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Product (article) characteristics	
Physical form of product	See section 9 of the SDS, No additional information
Concentration of substance in product	≤ 100 %

Amount used, frequency and duration of use (or from service life)	
Regional use tonnage:	≤ 80000 t/yr
Emission Days (days/year)	365

Technical and organisational conditions and measures	
Use appropriate abatement systems to ensure that the emission levels defined by local regulations are not exceeded.	

# Exposure scenario

## Sulphur dioxide

Annex to the safety data sheet

Reference number: EIGA113

CAS-No.: 7446-09-5 Product form: Substance Physical state: Gas

No emissions to water. In case of emissions to water, pH impact on the receiving water should be avoided, e.g. by neutralizing the effluent

Ensure operatives are trained to minimise releases

### Conditions and measures related to sewage treatment plant

Not applicable as there is no release to wastewater

### Conditions and measures related to treatment of waste (including article waste)

See section 13 of the SDS

### Other conditions affecting environmental exposure

Closed systems are used in order to prevent unintended emissions

#### 1.2.2. Control of worker exposure: PROC1

PROC1	Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions
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### Product (article) characteristics

Physical form of product	See section 9 of the SDS, No additional information
Concentration of substance in product	≤ 100 %

### Amount used (or contained in articles), frequency and duration of use/exposure

The actual tonnage handled per shift is not considered to influence the exposure as such for this scenario. Instead, the combination of the scale of operation and level of containment/automation (as reflected in the technical conditions) is the main determinant of the process-intrinsic emission potential.

Exposure duration

≤ 8 h/day

Covers frequency up to:

5 days/week

### Technical and organisational conditions and measures

Handle product within a closed system

Ensure operatives are trained to minimise exposure

Ensure supervision is in place to check that the RMMs are in place and are being used correctly and that the OCs are being followed

### Conditions and measures related to personal protection, hygiene and health evaluation

See section 8 of the SDS.

# Exposure scenario

## Sulphur dioxide

Annex to the safety data sheet

Reference number: EIGA113

CAS-No.: 7446-09-5 Product form: Substance Physical state: Gas

### Other conditions affecting workers exposure

Indoor or outdoor use

#### 1.2.3. Control of worker exposure: PROC8b, PROC9

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)

### Product (article) characteristics

Physical form of product	See section 9 of the SDS, No additional information
Concentration of substance in product	≤ 100 %

### Amount used (or contained in articles), frequency and duration of use/exposure

The actual tonnage handled per shift is not considered to influence the exposure as such for this scenario. Instead, the combination of the scale of operation and level of containment/automation (as reflected in the technical conditions) is the main determinant of the process-intrinsic emission potential.

Exposure duration	≤ 8 h/day
Covers frequency up to:	5 days/week

### Technical and organisational conditions and measures

Handle product within a closed system
During indoor processes or in cases where natural ventilation is not sufficient, LEV should be in place at points where emissions could occur. Outdoor, LEV is not generally required.
Fill containers at dedicated fill points supplied with local extract ventilation.
Drain down and flush system prior to equipment break-in or maintenance.
Apply a good standard of general or controlled ventilation when maintenance activities are carried out.
Ensure operatives are trained to minimise exposure
Ensure supervision is in place to check that the RMMs are in place and are being used correctly and that the OCs are being followed

### Conditions and measures related to personal protection, hygiene and health evaluation

See section 8 of the SDS.

### Other conditions affecting workers exposure

Indoor or outdoor use

# Exposure scenario

## Sulphur dioxide

Annex to the safety data sheet

Reference number: EIGA113

CAS-No.: 7446-09-5 Product form: Substance Physical state: Gas

### **1.3. Exposure estimation and reference to its source**

#### **1.3.1. Environmental release and exposure: ERC2**

#### **1.3.2. Worker exposure: PROC1**

Route of exposure and type of effects	Exposure estimate	Assessment conditions	RCR
Dermal - Long-term - systemic effects		Since the product has corrosive properties, dermal exposure has to be minimised as far as technically feasible. A DNEL for dermal effects has not been derived. Thus, dermal exposure is not assessed in this exposure scenario	
Dermal - Acute - systemic effects		Since the product has corrosive properties, dermal exposure has to be minimised as far as technically feasible. A DNEL for dermal effects has not been derived. Thus, dermal exposure is not assessed in this exposure scenario	
Acute - Local - Inhalation	0.648 mg/m <sup>3</sup>	Indoor or outdoor use	0.24

#### **1.3.3. Worker exposure: PROC8b, PROC9**

Route of exposure and type of effects	Exposure estimate	Assessment conditions	RCR
Dermal - Long-term - systemic effects		Since the product has corrosive properties, dermal exposure has to be minimised as far as technically feasible. A DNEL for dermal effects has not been derived. Thus, dermal exposure is not assessed in this exposure scenario	
Dermal - Acute - systemic effects		Since the product has corrosive properties, dermal exposure has to be minimised as far as technically feasible. A DNEL for dermal effects has not been derived. Thus, dermal exposure is not assessed in this exposure scenario	
Acute - Local - Inhalation	1.08 mg/m <sup>3</sup>	Indoor or outdoor use	0.4

## Sulphur dioxide

Annex to the safety data sheet

Reference number: EIGA113

CAS-No.: 7446-09-5 Product form: Substance Physical state: Gas

### **1.4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the ES**

#### **1.4.1. Environment**

Guidance - Environment	Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. For scaling see : <a href="http://www.ebrc.de/mease.html">www.ebrc.de/mease.html</a>
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#### **1.4.2. Health**

Guidance - Health	Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. For scaling see : <a href="http://www.ebrc.de/mease.html">www.ebrc.de/mease.html</a>
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# Exposure scenario

## Sulphur dioxide

Annex to the safety data sheet

Reference number: EIGA113

CAS-No.: 7446-09-5 Product form: Substance Physical state: Gas

## 2. EIGA113-2: Industrial uses, closed and open conditions

### 2.1. Title section

#### Industrial uses, closed and open conditions

ES Ref.: EIGA113-2

Revision date: 10/1/2016

Processes, tasks, activities covered	Industrial uses, including product transfers and associated laboratory activities within closed or partially closed conditions
--------------------------------------	--

Environment	Use descriptors
CS1	ERC2, ERC4, ERC6a, ERC6b, ERC6d

Worker	Use descriptors
CS2	PROC1
CS3	PROC2, PROC3, PROC4, PROC5, PROC8b, PROC9, PROC22, PROC23

Assessment method	MEASE
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### 2.2. Conditions of use affecting exposure

#### 2.2.1. Control of environmental exposure: ERC2, ERC4, ERC6a, ERC6b, ERC6d

ERC2	Formulation into mixture
ERC4	Use of non-reactive processing aid at industrial site (no inclusion into or onto article)
ERC6a	Use of intermediate
ERC6b	Use of reactive processing aid at industrial site (no inclusion into or onto article)
ERC6d	Use of reactive process regulators in polymerisation processes at industrial site (inclusion or not into/onto article)

Product (article) characteristics	
Physical form of product	See section 9 of the SDS, No additional information
Concentration of substance in product	≤ 100 %

Amount used, frequency and duration of use (or from service life)	
Regional use tonnage:	≤ 80000 t/yr

## Exposure scenario

### Sulphur dioxide

Annex to the safety data sheet

Reference number: EIGA113

CAS-No.: 7446-09-5 Product form: Substance Physical state: Gas

Emission Days (days/year)	365
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#### Technical and organisational conditions and measures

No emissions to water. In case of emissions to water, pH impact on the receiving water should be avoided, e.g. by neutralizing the effluent

Ensure operatives are trained to minimise releases

#### Conditions and measures related to sewage treatment plant

Not applicable as there is no release to wastewater

#### Conditions and measures related to treatment of waste (including article waste)

See section 13 of the SDS

#### Other conditions affecting environmental exposure

Closed systems are used in order to prevent unintended emissions

#### 2.2.2. Control of worker exposure: PROC1

PROC1	Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions
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Product (article) characteristics	
Physical form of product	See section 9 of the SDS, No additional information
Concentration of substance in product	≤ 100 %

Amount used (or contained in articles), frequency and duration of use/exposure	
The actual tonnage handled per shift is not considered to influence the exposure as such for this scenario. Instead, the combination of the scale of operation and level of containment/automation (as reflected in the technical conditions) is the main determinant of the process-intrinsic emission potential.	
Exposure duration	≤ 8 h/day
Covers frequency up to:	5 days/week

Technical and organisational conditions and measures	
Handle product within a closed system	
Ensure operatives are trained to minimise exposure	
Ensure supervision is in place to check that the RMMs are in place and are being used correctly and that the OCs are being followed	

# Exposure scenario

## Sulphur dioxide

Annex to the safety data sheet

Reference number: EIGA113

CAS-No.: 7446-09-5 Product form: Substance Physical state: Gas

### Conditions and measures related to personal protection, hygiene and health evaluation

See section 8 of the SDS.

### 2.2.3. Control of worker exposure: PROC2, PROC3, PROC4, PROC5, PROC8b, PROC9, PROC22, PROC23

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
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)
PROC22	Manufacturing and processing of minerals and/or metals at substantially elevated temperature
PROC23	Open processing and transfer operations at substantially elevated temperature

### Product (article) characteristics

Physical form of product	See section 9 of the SDS, No additional information
Concentration of substance in product	≤ 100 %

### Amount used (or contained in articles), frequency and duration of use/exposure

The actual tonnage handled per shift is not considered to influence the exposure as such for this scenario. Instead, the combination of the scale of operation and level of containment/automation (as reflected in the technical conditions) is the main determinant of the process-intrinsic emission potential.

Exposure duration	≤ 8 h/day
Covers frequency up to:	5 days/week

### Technical and organisational conditions and measures

Local exhaust ventilation - efficiency of at least [%]:	90
Drain down and flush system prior to equipment break-in or maintenance.	
Apply a good standard of general or controlled ventilation when maintenance activities are carried out.	
Ensure operatives are trained to minimise exposure	
Ensure supervision is in place to check that the RMMs are in place and are being used correctly and that the OCs are being followed	

# Exposure scenario

## Sulphur dioxide

Annex to the safety data sheet

Reference number: EIGA113

CAS-No.: 7446-09-5 Product form: Substance Physical state: Gas

Conditions and measures related to personal protection, hygiene and health evaluation	
Wear suitable gloves tested to EN374	Mandatory since the product is corrosive
Wear suitable working clothes	Personal protection measures have to be applied in case of potential exposure only.
Use suitable eye protection. Wear suitable face shield	Personal protection measures have to be applied in case of potential exposure only.
Face mask with an ABEK1 filter offering an assigned protection factor of 30	Personal protection measures have to be applied in case of potential exposure only.

Other conditions affecting workers exposure
Indoor or outdoor use

## 2.3. Exposure estimation and reference to its source

### 2.3.1. Environmental release and exposure: ERC2, ERC4, ERC6a, ERC6b, ERC6d

### 2.3.2. Worker exposure: PROC1

### 2.3.3. Worker exposure: PROC2, PROC3, PROC4, PROC5, PROC8b, PROC9, PROC22, PROC23

Route of exposure and type of effects	Exposure estimate	Assessment conditions	RCR
Dermal - Long-term - systemic effects		Since the product has corrosive properties, dermal exposure has to be minimised as far as technically feasible. A DNEL for dermal effects has not been derived. Thus, dermal exposure is not assessed in this exposure scenario	
Dermal - Acute - systemic effects		Since the product has corrosive properties, dermal exposure has to be minimised as far as technically feasible. A DNEL for dermal effects has not been derived. Thus, dermal exposure is not assessed in this exposure scenario	
Acute - Local - Inhalation	1.08 mg/m <sup>3</sup>	Indoor or outdoor use, With LEV90%	0.4

## Exposure scenario

### Sulphur dioxide

Annex to the safety data sheet

Reference number: EIGA113

CAS-No.: 7446-09-5 Product form: Substance Physical state: Gas

#### **2.4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the ES**

##### **2.4.1. Environment**

Guidance - Environment	Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. For scaling see : <a href="http://www.ebrc.de/mease.html">www.ebrc.de/mease.html</a>
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##### **2.4.2. Health**

Guidance - Health	Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. For scaling see : <a href="http://www.ebrc.de/mease.html">www.ebrc.de/mease.html</a>
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# Exposure scenario

## Sulphur dioxide

Annex to the safety data sheet

Reference number: EIGA113

CAS-No.: 7446-09-5 Product form: Substance Physical state: Gas

### 3. EIGA113-3: Professional uses

#### 3.1. Title section

##### Professional uses

ES Ref.: EIGA113-3

Revision date: 10/1/2016

Processes, tasks, activities covered	Professional uses, including transfer of product in non-industrial settings
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Environment	Use descriptors
CS1	ERC6a, ERC7

Worker	Use descriptors
CS2	PROC8b, PROC9
CS3	PROC19

Assessment method	MEASE
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#### 3.2. Conditions of use affecting exposure

##### 3.2.1. Control of environmental exposure: ERC6a, ERC7

ERC6a	Use of intermediate
ERC7	Use of functional fluid at industrial site

Product (article) characteristics	
Physical form of product	See section 9 of the SDS, No additional information
Concentration of substance in product	≤ 100 %

Amount used, frequency and duration of use (or from service life)	
Regional use tonnage:	≤ 80000 t/yr
Emission Days (days/year)	365

Technical and organisational conditions and measures	
Use appropriate abatement systems to ensure that the emission levels defined by local regulations are not exceeded.	

## Exposure scenario

### Sulphur dioxide

Annex to the safety data sheet

Reference number: EIGA113

CAS-No.: 7446-09-5 Product form: Substance Physical state: Gas

No emissions to water. In case of emissions to water, pH impact on the receiving water should be avoided, e.g. by neutralizing the effluent

Ensure operatives are trained to minimise releases

#### Conditions and measures related to sewage treatment plant

Not applicable as there is no release to wastewater

#### Conditions and measures related to treatment of waste (including article waste)

See section 13 of the SDS

#### Other conditions affecting environmental exposure

Closed systems are used in order to prevent unintended emissions

#### 3.2.2. Control of worker exposure: PROC8b, PROC9

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)

Product (article) characteristics	
Physical form of product	See section 9 of the SDS, No additional information
Concentration of substance in product	≤ 100 %

Amount used (or contained in articles), frequency and duration of use/exposure	
The actual tonnage handled per shift is not considered to influence the exposure as such for this scenario. Instead, the combination of the scale of operation and level of containment/automation (as reflected in the technical conditions) is the main determinant of the process-intrinsic emission potential.	
Exposure duration	≤ 8 h/day
Covers frequency up to:	5 days/week

Technical and organisational conditions and measures	
Handle product within a closed system	
Drain down and flush system prior to equipment break-in or maintenance.	
Apply a good standard of general or controlled ventilation when maintenance activities are carried out.	
Ensure operatives are trained to minimise exposure	
Ensure supervision is in place to check that the RMMs are in place and are being used correctly and that the OCs are being followed	

# Exposure scenario

## Sulphur dioxide

Annex to the safety data sheet

Reference number: EIGA113

CAS-No.: 7446-09-5 Product form: Substance Physical state: Gas

<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
Wear suitable gloves tested to EN374	Mandatory since the product is corrosive
Wear suitable working clothes. Chemical resistant safety shoes	Personal protection measures have to be applied in case of potential exposure only.
Use suitable eye protection. Wear suitable face shield	Personal protection measures have to be applied in case of potential exposure only.

<b>Other conditions affecting workers exposure</b>	
Indoor or outdoor use	

### 3.2.3. Control of worker exposure: PROC19

PROC19	Manual activities involving hand contact
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<b>Product (article) characteristics</b>	
Physical form of product	See section 9 of the SDS, No additional information
Concentration of substance in product	≤ 100 %

<b>Amount used (or contained in articles), frequency and duration of use/exposure</b>	
The actual tonnage handled per shift is not considered to influence the exposure as such for this scenario. Instead, the combination of the scale of operation and level of containment/automation (as reflected in the technical conditions) is the main determinant of the process-intrinsic emission potential.	
Exposure duration	≤ 15 min/day

<b>Technical and organisational conditions and measures</b>	
Ensure operatives are trained to minimise exposure	
Ensure supervision is in place to check that the RMMs are in place and are being used correctly and that the OCs are being followed	

<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
Wear suitable gloves tested to EN374	Mandatory since the product is corrosive
Wear suitable working clothes. Chemical resistant safety shoes	Personal protection measures have to be applied in case of potential exposure only.
Use suitable eye protection. Wear suitable face shield	Personal protection measures have to be applied in case of potential exposure only.
Face mask with an ABEK1 filter offering an assigned protection factor of 30	

# Exposure scenario

## Sulphur dioxide

Annex to the safety data sheet

Reference number: EIGA113

CAS-No.: 7446-09-5 Product form: Substance Physical state: Gas

### Other conditions affecting workers exposure

Indoor or outdoor use

### 3.3. Exposure estimation and reference to its source

#### 3.3.1. Environmental release and exposure: ERC6a, ERC7

#### 3.3.2. Worker exposure: PROC8b, PROC9

Route of exposure and type of effects	Exposure estimate	Assessment conditions	RCR
Dermal - Long-term - systemic effects		Since the product has corrosive properties, dermal exposure has to be minimised as far as technically feasible. A DNEL for dermal effects has not been derived. Thus, dermal exposure is not assessed in this exposure scenario	
Dermal - Acute - systemic effects		Since the product has corrosive properties, dermal exposure has to be minimised as far as technically feasible. A DNEL for dermal effects has not been derived. Thus, dermal exposure is not assessed in this exposure scenario	
Acute - Local - Inhalation	2.16 mg/m <sup>3</sup>	Indoor or outdoor use, With LEV90%, With RPE95%	0.8

#### 3.3.3. Worker exposure: PROC19

Route of exposure and type of effects	Exposure estimate	Assessment conditions	RCR
Dermal - Long-term - systemic effects		Since the product has corrosive properties, dermal exposure has to be minimised as far as technically feasible. A DNEL for dermal effects has not been derived. Thus, dermal exposure is not assessed in this exposure scenario	

## Exposure scenario

### Sulphur dioxide

Annex to the safety data sheet

Reference number: EIGA113

CAS-No.: 7446-09-5 Product form: Substance Physical state: Gas

Dermal - Acute - systemic effects		Since the product has corrosive properties, dermal exposure has to be minimised as far as technically feasible. A DNEL for dermal effects has not been derived. Thus, dermal exposure is not assessed in this exposure scenario	
Acute - Local - Inhalation	2.16 mg/m <sup>3</sup>	Indoor or outdoor use, With LEV90%, With RPE95%	0.8

### **3.4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the ES**

#### **3.4.1. Environment**

Guidance - Environment	Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. For scaling see : <a href="http://www.ebrc.de/mease.html">www.ebrc.de/mease.html</a>
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#### **3.4.2. Health**

Guidance - Health	Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. For scaling see : <a href="http://www.ebrc.de/mease.html">www.ebrc.de/mease.html</a>
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**End of document**