

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Revision Date 11.07.2017

Version 13.2

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## SECTION 1. Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Catalogue No. 107983

Product name Sulfur for external use Ph Eur,BP

REACH Registration Number 01-2119487295-27-XXXX

CAS-No. 7704-34-9

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

Identified uses Pharmaceutical production, Reagent for development and research,  
Cosmetic raw material  
In compliance with the conditions described in the annex to this safety  
data sheet.

### 1.3 Details of the supplier of the safety data sheet

Company Merck KGaA \* 64271 Darmstadt \* Germany \* Phone:+49 6151 72-0

Responsible Department LS-QHC \* e-mail: prodsafe@merckgroup.com

1.4 Emergency telephone number Please contact the regional company representation in your country.

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## SECTION 2. Hazards identification

### 2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

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Flammable solid, Category 2, H228

Skin irritation, Category 2, H315

For the full text of the H-Statements mentioned in this Section, see Section 16.

## 2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

*Hazard pictograms*



*Signal word*

Warning

*Hazard statements*

H228 Flammable solid.

H315 Causes skin irritation.

*Precautionary statements*

Prevention

P210 Keep away from heat.

Response

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P370 + P378 In case of fire: Use powder for extinction.

**Reduced labelling (≤125 ml)**

*Hazard pictograms*



*Signal word*

Warning

*Index-No.* 016-094-00-1

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## 2.3 Other hazards

None known.

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## SECTION 3. Composition/information on ingredients

### 3.1 Substance

Formula	S (Hill)
Index-No.	016-094-00-1
EC-No.	231-722-6
Molar mass	32,06 g/mol

### Hazardous components (REGULATION (EC) No 1272/2008)

*Chemical name (Concentration)*

CAS-No.	Registration number	Classification
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sulphur ( $\leq 100\%$ )

*Substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII.*

7704-34-9	01-2119487295-27-	
	XXXX	Flammable solid, Category 2, H228
		Skin irritation, Category 2, H315

For the full text of the H-Statements mentioned in this Section, see Section 16.

### 3.2 Mixture

Not applicable

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## SECTION 4. First aid measures

### 4.1 Description of first aid measures

After inhalation: fresh air.

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/shower.

After eye contact: rinse out with plenty of water. Remove contact lenses.

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After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

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

Diarrhoea  
irritant effects

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

No information available.

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## SECTION 5. Firefighting measures

### 5.1 Extinguishing media

*Suitable extinguishing media*

Water, Foam, Carbon dioxide (CO<sub>2</sub>), Dry powder

*Unsuitable extinguishing media*

For this substance/mixture no limitations of extinguishing agents are given.

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

Combustible.

Risk of dust explosion.

Vapours are heavier than air and may spread along floors.

Forms explosive mixtures with air on intense heating.

Development of hazardous combustion gases or vapours possible in the event of fire.

Fire may cause evolution of:

Sulphur oxides

### 5.3 Advice for firefighters

*Special protective equipment for firefighters*

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

*Further information*

Suppress (knock down) gases/vapours/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

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## SECTION 6. Accidental release measures

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

Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders:

Protective equipment see section 8.

### 6.2 Environmental precautions

Do not let product enter drains. Risk of explosion.

### 6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

### 6.4 Reference to other sections

Indications about waste treatment see section 13.

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## SECTION 7. Handling and storage

### 7.1 Precautions for safe handling

#### *Advice on safe handling*

Observe label precautions.

#### *Advice on protection against fire and explosion*

Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.

#### *Hygiene measures*

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

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

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The Safety Data Sheets for catalogue items are available at [www.merckgroup.com](http://www.merckgroup.com)

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## *Storage conditions*

Dry.

Tightly closed. Keep away from heat and sources of ignition.

Recommended storage temperature see product label.

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

See exposure scenario in the Annex to this MSDS.

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## **SECTION 8. Exposure controls/personal protection**

### **8.1 Control parameters**

#### **Derived No Effect Level (DNEL)**

no data available

#### **Predicted No Effect Concentration (PNEC)**

PNEC no data available

### **8.2 Exposure controls**

#### **Engineering measures**

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

See section 7.1.

#### **Individual protection measures**

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

#### *Eye/face protection*

Safety glasses

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## *Hand protection*

full contact:

Glove material:	Nitrile rubber
Glove thickness:	0,11 mm
Break through time:	> 480 min

splash contact:

Glove material:	Nitrile rubber
Glove thickness:	0,11 mm
Break through time:	> 480 min

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374, for example KCL 741 Dermatril® L (full contact), KCL 741 Dermatril® L (splash contact).

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types.

This recommendation applies only to the product stated in the safety data sheet(>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: [www.kcl.de](http://www.kcl.de)).

## *Other protective equipment*

protective clothing

## *Respiratory protection*

required when dusts are generated.

Recommended Filter type: Filter P 2 (acc. to DIN 3181) for solid and liquid particles of harmful substances

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

## **Environmental exposure controls**

Do not let product enter drains.

Risk of explosion.

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## SECTION 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Form	solid
Colour	light yellow
Odour	weak characteristic odour
Odour Threshold	No information available.
pH	No information available.
Melting point	113 - 119 °C
Boiling point/boiling range	444 °C at 1.013 hPa
Flash point	160 °C Method: c.c.
Evaporation rate	No information available.
Flammability (solid, gas)	The substance or mixture is a flammable solid with the category 2.
Lower explosion limit	No information available.
Upper explosion limit	No information available.
Vapour pressure	< 0,01 hPa at 20 °C
Relative vapour density	No information available.



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Density	1,96 - 2,07 g/cm <sup>3</sup> at 20 °C
Relative density	No information available.
Water solubility	at 20 °C practically insoluble
Partition coefficient: n-octanol/water	Not applicable
Auto-ignition temperature	No information available.
Decomposition temperature	> 250 °C
Viscosity, dynamic	17 mPa.s at 120 °C liquid
Explosive properties	Not classified as explosive.
Oxidizing properties	none

## 9.2 Other data

Ignition temperature	235 °C Dust
Bulk density	ca.400 - 500 kg/m <sup>3</sup>

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## SECTION 10. Stability and reactivity

### 10.1 Reactivity

Forms explosive mixtures with air on intense heating.

A range from approx. 15 Kelvin below the flash point is to be rated as critical.

Risk of dust explosion.

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## 10.2 Chemical stability

heat-sensitive

## 10.3 Possibility of hazardous reactions

Risk of explosion with:

Alkali metals, Ammonia, Barium, bromates, chlorates, Barium nitrate, Chlorites, Calcium, Hypochlorites, chlorine dioxide, chromium(VI) oxide, chlorine oxides, Ether, iodates, Potassium, nitrates, potassium permanganate, perchlorates, Lithium, sodium, nitrites, Peroxides, Strong oxidizing agents, permanganates, phosphorus, mercury oxide, ammonium nitrate

magnesium, in powder form

Zinc, in powder form

Risk of ignition or formation of inflammable gases or vapours with:

nitrides, powdered aluminium, carbides, chromates/perchromates, Lead oxides, halogen-halogen compounds, phosphides, chromyl chloride, Iron, Alkaline earth metals, Fluorine, Indium, Nickel, carbon disulfide, selenium, silver oxide, nitrogen dioxide, Uranium, carbon

Exothermic reaction with:

Sulphides, Boron, Bromine, Chlorine, halogens, Copper, lithium silicide, Powdered metals, organic nitro compounds, Oxides of phosphorus, Hydrogen, Tin

cadmium, in powder form

## 10.4 Conditions to avoid

Strong heating.

## 10.5 Incompatible materials

Copper, Mild steel

## 10.6 Hazardous decomposition products

in the event of fire: See section 5.

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## SECTION 11. Toxicological information

### 11.1 Information on toxicological effects

#### *Acute oral toxicity*

LD50 Rat: > 5.000 mg/kg

Symptoms: Diarrhoea

poorly absorbed

#### *Acute inhalation toxicity*

LC50 Rat: > 9,23 mg/l; 4 h ; dust/mist

Symptoms: Irritation symptoms in the respiratory tract.

#### *Acute dermal toxicity*

LD50 Rabbit: > 2.000 mg/kg

#### *Skin irritation*

Causes skin irritation.

#### *Eye irritation*

slight irritation

#### *Sensitisation*

Patch test: human

Result: negative

#### *Germ cell mutagenicity*

#### *Genotoxicity in vitro*

Ames test

Salmonella typhimurium

Result: negative

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## *Carcinogenicity*

This information is not available.

## *Reproductive toxicity*

This information is not available.

## *Teratogenicity*

This information is not available.

## *Specific target organ toxicity - single exposure*

This information is not available.

## *Specific target organ toxicity - repeated exposure*

This information is not available.

## *Aspiration hazard*

This information is not available.

## 11.2 Further information

Other dangerous properties can not be excluded.

Handle in accordance with good industrial hygiene and safety practice.

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## SECTION 12. Ecological information

### 12.1 Toxicity

#### *Toxicity to fish*

LC50 Danio rerio (zebra fish): 866 mg/l; 96 h

#### *Toxicity to daphnia and other aquatic invertebrates*

EC0 Daphnia magna (Water flea): > 10.000 mg/l; 24 h

EC50 Tetrahymen pyriformis: 0,16 mg/l; 24 h

#### *Toxicity to bacteria*

EC50 activated sludge: 1.900 mg/l; 3 h

ISO 8192

### 12.2 Persistence and degradability

No information available.

### 12.3 Bioaccumulative potential

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*Partition coefficient: n-octanol/water*

Not applicable

## 12.4 Mobility in soil

No information available.

## 12.5 Results of PBT and vPvB assessment

Substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII.

## 12.6 Other adverse effects

Discharge into the environment must be avoided.

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## SECTION 13. Disposal considerations

*Waste treatment methods*

See [www.retrologistik.com](http://www.retrologistik.com) for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

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## SECTION 14. Transport information

### Land transport (ADR/RID)

14.1 UN number	UN 1350
14.2 Proper shipping name	SULPHUR
14.3 Class	4.1
14.4 Packing group	III
14.5 Environmentally hazardous	--
14.6 Special precautions for user	yes
Tunnel restriction code	E

### Inland waterway transport (ADN)

Not relevant

### Air transport (IATA)

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14.1 UN number	UN 1350
14.2 Proper shipping name	SULPHUR
14.3 Class	4.1
14.4 Packing group	III
14.5 Environmentally hazardous	--
14.6 Special precautions for user	no

## Sea transport (IMDG)

14.1 UN number	UN 1350
14.2 Proper shipping name	SULPHUR
14.3 Class	4.1
14.4 Packing group	III
14.5 Environmentally hazardous	--
14.6 Special precautions for user	yes

EmS	F-A S-G
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14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code  
Not relevant

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## SECTION 15. Regulatory information

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

#### *EU regulations*

Major Accident Hazard	SEVESO III
Legislation	Not applicable

Occupational restrictions	Take note of Dir 94/33/EC on the protection of young people at work.
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Regulation (EC) No 1005/2009 on substances that deplete the ozone layer      not regulated

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Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC not regulated

Substances of very high concern (SVHC) This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of  $\geq 0.1\%$  (w/w).

## National legislation

Storage class 4.1B

## 15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out.

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## SECTION 16. Other information

### Full text of H-Statements referred to under sections 2 and 3.

H228 Flammable solid.  
H315 Causes skin irritation.

### Training advice

Provide adequate information, instruction and training for operators.

### Labelling

#### Hazard pictograms



#### Signal word

Warning

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## *Hazard statements*

H228 Flammable solid.

H315 Causes skin irritation.

## *Precautionary statements*

Prevention

P210 Keep away from heat.

Response

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P313 Get medical advice/ attention.

P370 + P378 In case of fire: Use powder for extinction.

## **Key or legend to abbreviations and acronyms used in the safety data sheet**

Used abbreviations and acronyms can be looked up at [www.wikipedia.org](http://www.wikipedia.org).

## **Regional representation**

This information is given on the authorised Safety Data Sheet for your country.

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*The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the product.*



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## EXPOSURE SCENARIO 1 (Industrial use)

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### 1. Industrial use Pharmaceutical production, Reagent for development and research, Cosmetic raw material)

#### Sectors of end-use

<i>SU 3</i>	Industrial uses: Uses of substances as such or in preparations at industrial sites
<i>SU9</i>	Manufacture of fine chemicals
<i>SU 10</i>	Formulation [mixing] of preparations and/ or re-packaging (excluding alloys)

#### Chemical product category

<i>PC19</i>	Intermediate
<i>PC21</i>	Laboratory chemicals
<i>PC39</i>	Cosmetics, personal care products

#### Process categories

<i>PROC1</i>	Use in closed process, no likelihood of exposure
<i>PROC2</i>	Use in closed, continuous process with occasional controlled exposure
<i>PROC3</i>	Use in closed batch process (synthesis or formulation)
<i>PROC4</i>	Use in batch and other process (synthesis) where opportunity for exposure arises
<i>PROC5</i>	Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant contact)
<i>PROC8a</i>	Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at non-dedicated facilities
<i>PROC8b</i>	Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities
<i>PROC9</i>	Transfer of substance or preparation into small containers (dedicated filling line, including weighing)
<i>PROC10</i>	Roller application or brushing
<i>PROC14</i>	Production of preparations or articles by tableting, compression, extrusion, pelletisation
<i>PROC15</i>	Use as laboratory reagent

#### Environmental Release Categories

<i>ERC1</i>	Manufacture of substances
<i>ERC2</i>	Formulation of preparations

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<i>ERC4</i>	Industrial use of processing aids in processes and products, not becoming part of articles
<i>ERC6a</i>	Industrial use resulting in manufacture of another substance (use of intermediates)
<i>ERC6b</i>	Industrial use of reactive processing aids

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## 2. Contributing scenarios: Operational conditions and risk management measures

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2.1 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC10, PROC14, PROC15

### Product characteristics

Concentration of the Substance in Mixture/Article	Covers the percentage of the substance in the product up to 100 %.
Physical Form (at time of use)	Solid, medium dustiness
Physical Form (at time of use)	Low volatile liquid

### Frequency and duration of use

Frequency of use	8 hours/day
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### Other operational conditions affecting workers exposure

Outdoor / Indoor	Indoor without local exhaust ventilation (LEV)
Remarks	Operation is carried out at elevated temperature (> 20°C above ambient temperature)., The following may be released from the substance:, hydrogen sulphide

### Organisational measures to prevent /limit releases, dispersion and exposure

Covers daily exposures up to 8 hours. Assumes a good basic standard of occupational hygiene is implemented. Regular cleaning of equipment, work area and clothing.

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

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Wear suitable coveralls to prevent exposure to the skin.

### Additional good practice advice beyond the REACH Chemical Safety Assessment

Additional good practice advice	Avoid contact with the skin and the eyes. Minimize dust generation and accumulation.
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## 3. Exposure estimation and reference to its source

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The Safety Data Sheets for catalogue items are available at [www.merckgroup.com](http://www.merckgroup.com)

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## Environment

A chemical safety assessment was performed according REACH Article 14(3), Annex I, sections 3 (Environmental Hazard Assessment) and 4 (PBT/vPvB Assessment). As no hazard was identified, an exposure assessment and risk characterisation is not necessary (REACH Annex I section 5.0).

## Workers

CS	Use descriptor	Exposure duration, route, effect	RCR	Exposure Assessment Method
2.1	PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC10, PROC15			Qualitative assessment used to conclude safe use.

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## 4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Please refer to the following documents: ECHA Guidance on information requirements and chemical safety assessment Chapter R.12: Use descriptor system; ECHA Guidance for downstream users; ECHA Guidance on information requirements and chemical safety assessment Part D: Exposure Scenario Building, Part E: Risk Characterisation and Part G: Extending the SDS; VCI/Cefic REACH Practical Guides on Exposure Assessment and Communications in the Supply Chain; CEFIC Guidance Specific Environmental Release Categories (SPERCs).

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## EXPOSURE SCENARIO 2 (Professional use)

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### 1. Professional use Pharmaceutical production, Reagent for development and research, Cosmetic raw material)

#### Sectors of end-use

*SU 22* Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

#### Chemical product category

*PC21* Laboratory chemicals  
*PC39* Cosmetics, personal care products

#### Process categories

*PROC15* Use as laboratory reagent

#### Environmental Release Categories

*ERC2* Formulation of preparations  
*ERC6a* Industrial use resulting in manufacture of another substance (use of intermediates)  
*ERC6b* Industrial use of reactive processing aids  
*ERC8a* Wide dispersive indoor use of processing aids in open systems  
*ERC8d* Wide dispersive outdoor use of processing aids in open systems

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### 2. Contributing scenarios: Operational conditions and risk management measures

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#### 2.1 Contributing scenario controlling worker exposure for: PROC15

#### Product characteristics

Concentration of the Substance in Mixture/Article	Covers the percentage of the substance in the product up to 100 %.
Physical Form (at time of use)	Solid, medium dustiness
Physical Form (at time of use)	Low volatile liquid

#### Frequency and duration of use

Frequency of use 8 hours/day

#### Other operational conditions affecting workers exposure

Outdoor / Indoor Indoor without local exhaust ventilation (LEV)

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Remarks	Operation is carried out at elevated temperature (> 20°C above ambient temperature)., The following may be released from the substance:, hydrogen sulphide
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## Organisational measures to prevent /limit releases, dispersion and exposure

Covers daily exposures up to 8 hours. Assumes a good basic standard of occupational hygiene is implemented. Regular cleaning of equipment, work area and clothing.

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

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Wear suitable coveralls to prevent exposure to the skin.

## Additional good practice advice beyond the REACH Chemical Safety Assessment

Additional good practice advice	Avoid contact with the skin and the eyes. Minimize dust generation and accumulation.
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## 3. Exposure estimation and reference to its source

### Environment

A chemical safety assessment was performed according REACH Article 14(3), Annex I, sections 3 (Environmental Hazard Assessment) and 4 (PBT/vPvB Assessment). As no hazard was identified, an exposure assessment and risk characterisation is not necessary (REACH Annex I section 5.0).

### Workers

CS	Use descriptor	Exposure duration, route, effect	RCR	Exposure Assessment Method
2.1	PROC15			Qualitative assessment used to conclude safe use.

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## 4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Please refer to the following documents: ECHA Guidance on information requirements and chemical safety assessment Chapter R.12: Use descriptor system; ECHA Guidance for downstream users; ECHA Guidance on information requirements and chemical safety assessment Part D: Exposure

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Scenario Building, Part E: Risk Characterisation and Part G: Extending the SDS; VCI/Cefic REACH  
Practical Guides on Exposure Assessment and Communications in the Supply Chain; CEFIC  
Guidance Specific Environmental Release Categories (SPERCs).

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## EXPOSURE SCENARIO 3 (Consumer use)

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### 1. Consumer use Pharmaceutical production, Reagent for development and research, Cosmetic raw material)

#### Sectors of end-use

*SU 21* Consumer uses: Private households (= general public = consumers)

#### Chemical product category

*PC39* Cosmetics, personal care products

#### Environmental Release Categories

*ERC8a* Wide dispersive indoor use of processing aids in open systems

*ERC8d* Wide dispersive outdoor use of processing aids in open systems

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### 2. Contributing scenarios: Operational conditions and risk management measures

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

#### Environment

A chemical safety assessment was performed according REACH Article 14(3), Annex I, sections 3 (Environmental Hazard Assessment) and 4 (PBT/vPvB Assessment). As no hazard was identified, an exposure assessment and risk characterisation is not necessary (REACH Annex I section 5.0).

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### 4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Please refer to the following documents: ECHA Guidance on information requirements and chemical safety assessment Chapter R.12: Use descriptor system; ECHA Guidance for downstream users; ECHA Guidance on information requirements and chemical safety assessment Part D: Exposure Scenario Building, Part E: Risk Characterisation and Part G: Extending the SDS; VCI/Cefic REACH Practical Guides on Exposure Assessment and Communications in the Supply Chain; CEFIC Guidance Specific Environmental Release Categories (SPERCs).