

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 22-Dec-2016

Print date: 11-Jan-2017

Version: 4 modifiziert

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## SIHA Potassium Disulphite

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

#### 1.1. Product identifier

Trade name/designation:

SIHA Potassium Disulphite

Additional information:

REACH No.: 01-2119537422-45-xxxx

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

Use of the substance/mixture:

Product for Winetreatment.

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

Supplier (manufacturer/importer/only representative/downstream user/distributor):

Eaton Technologies GmbH

Langenlonsheim Branch

An den Nahewiesen 24

55450 Langenlonsheim

Germany

Telephone: +49 6704 204-0 (Diese Nummer ist nur zu Bürozeiten besetzt.)

Telefax: +49 6704 204-121

E-mail: SDB@Eaton.com

Website: www.eaton.com/filtration

#### 1.4. Emergency telephone number

Notfallauskunft bei Vergiftungen: Giftinformationszentrum Mainz (Deutsch und Englisch). Emergency medical information: Poison information center Mainz (German and English)., 24h: +49 6131 19240

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]:

Hazard classes and hazard categories	Hazard statements	Classification procedure
Serious eye damage/eye irritation (Eye Dam. 1)	H318: Causes serious eye damage.	

#### 2.2. Label elements

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

Hazard pictograms:



GHS05  
Corrosion

Signal word: Danger

Hazard components for labelling:

dipotassium disulphite, K<sub>2</sub>S<sub>2</sub>O<sub>5</sub>

hazard statements for health hazards	
H318	Causes serious eye damage.
Supplemental Hazard information (EU)	
EUH031	Contact with acids liberates toxic gas.

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## SIHA Potassium Disulphite

### Precautionary statements Prevention

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P280.6	Wear eye protection/face protection.

### Precautionary statements Response

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/doctor/...

### 2.3. Other hazards

No data available

## SECTION 3: Composition / information on ingredients

### 3.1. Substances

#### Description:

dipotassium disulphite, K<sub>2</sub>S<sub>2</sub>O<sub>5</sub>

CAS No. : 16731-55-8

EC No.: 204-795-3

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### Following inhalation:

Remove casualty to fresh air and keep warm and at rest.

Call a physician immediately. Apply cortisone spray at early stage.

#### In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap.

IF ON CLOTHING: Remove contaminated clothing immediately and dispose of safely.

#### After eye contact:

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

#### After ingestion:

Rinse mouth immediately and drink plenty of water.

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

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

May produce an allergic reaction.

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media:

Foam

#### Unsuitable extinguishing media:

High power water jet

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

In case of fire may be liberated: Sulphur dioxide (SO<sub>2</sub>)

### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

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### 5.4. Additional information

In case of fire and/or explosion do not breathe fumes.  
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Dispose of waste according to applicable legislation.

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

**Personal precautions:**

Wear personal protection equipment. Avoid dust formation.  
Provide adequate ventilation. Avoid contact with eyes.

**Protective equipment:**

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

#### 6.1.2. For emergency responders

No data available

### 6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.  
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

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

**For cleaning up:**

Take up mechanically, placing in appropriate containers for disposal.  
Treat the recovered material as prescribed in the section on waste disposal.  
Wash with plenty of water.

### 6.4. Reference to other sections

Disposal: see section 13  
Personal protection equipment: see section 8

### 6.5. Additional information

No data available

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Protective measures**

**Advices on safe handling:**

Avoid contact with skin, eyes and clothes.  
Avoid dust formation. Use only in well-ventilated areas.  
Contaminated work clothing should not be allowed out of the workplace.  
When using do not eat or drink.

**Fire prevent measures:**

The product itself does not burn. No special fire protection measures are necessary.

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

**Requirements for storage rooms and vessels:**

Keep in a cool, well-ventilated place. Keep container tightly closed and dry.

**Hints on storage assembly:**

Segregate from acids and acid forming substances. Segregate from oxidants. Do not store with: sodium nitrate, sodium nitrite, sodium sulfide.  
Dinatriumsulfid

Do not store together with: Food and fodder

**Storage class:** 13 - Non-combustible solids that cannot be assigned to any of the above storage classes

### 7.3. Specific end use(s)

No data available

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## SIHA Potassium Disulphite

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### 8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① long-term occupational exposure limit value ② short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
TRGS 900 (DE)	sulphur dioxide CAS No.: 7446-09-5	① 1 ppm (2.5 mg/m <sup>3</sup> ) ② 1 ppm (2.5 mg/m <sup>3</sup> )

##### 8.1.2. Biological limit values

No data available

##### 8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
dipotassium disulphite CAS No.: 16731-55-8	263 mg/m <sup>3</sup>	① DNEL worker ② DNEL long-term inhalative (systemic)
dipotassium disulphite CAS No.: 16731-55-8	78 mg/m <sup>3</sup>	① DNEL Consumer ② DNEL long-term inhalative (systemic)
dipotassium disulphite CAS No.: 16731-55-8	10 mg/kg	① DNEL Consumer ② DNEL long-term oral (repeated)

Substance name	PNEC Value	① PNEC type
dipotassium disulphite CAS No.: 16731-55-8	1.17 mg/l	① PNEC aquatic, freshwater
dipotassium disulphite CAS No.: 16731-55-8	0.12 mg/l	① PNEC aquatic, marine water
dipotassium disulphite CAS No.: 16731-55-8	88.1 mg/l	① PNEC sewage treatment plant (STP)

#### 8.2. Exposure controls

##### 8.2.1. Appropriate engineering controls

No data available

##### 8.2.2. Personal protection equipment

###### Eye/face protection:

Tightly sealed safety glasses. goggles

###### Skin protection:

Hand protection: Tested protective gloves must be worn

Suitable material:

NBR (Nitrile rubber): 0,4 mm

CR (polychloroprene, chloroprene rubber): 0,5 mm

Butyl caoutchouc (butyl rubber): 0,7 mm

Breakthrough time (maximum wearing time): > 480 min

The specifications are based on own 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 shorter than the permeation time determined in accordance with EN 374. Manufacturer's directions for use should be observed because of great diversity of types.

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### Respiratory protection:

Respiratory protection necessary at: dust formation

Suitable respiratory protection apparatus: Filtering device (DIN EN 147) P 1

Breathing protection if breathable aerosols/dust are formed. Combination filter EN 141 Type ABEK-P3 for gases/vapours of organic, inorganic, acid inorganic, alkaline compounds and toxic particles.

### Other protection measures:

General health and safety measures: Wash hands and face before breaks and after work and take a shower if necessary. The usual precautionary measures are to be adhered to when handling chemicals.

### 8.2.3. Environmental exposure controls

No data available

### 8.3. Additional information

No data available

## SECTION 9: Physical and chemical properties

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

#### Appearance

Physical state: Powder

Colour: white

Odour: like: Sulphur dioxide (SO<sub>2</sub>)

#### Safety relevant basis data

parameter		at °C	Method	Remark
pH	3.8 - 4.6	20 °C		Gehalt an gelöster Substanz: 5% (m)
Melting point	<i>not determined</i>			
Freezing point	<i>not determined</i>			
Initial boiling point and boiling range	<i>not applicable</i>			
Decomposition temperature (°C):	≈ 150 °C			
Flash point	<i>not applicable</i>			
Evaporation rate	<i>not determined</i>			
Ignition temperature in °C	<i>not determined</i>			
Upper/lower flammability or explosive limits	<i>not applicable</i>			
Vapour pressure	<i>not applicable</i>			
Vapour density	<i>not determined</i>			
Density	2.3 g/cm <sup>3</sup>			
Bulk density	1,100 - 1,300 kg/m <sup>3</sup>			
Water solubility (g/L)	495 g/l	25 °C		
Partition coefficient: n-octanol/water	<i>not determined</i>			
Dynamic viscosity	<i>not determined</i>			
Kinematic viscosity	<i>not determined</i>			

### 9.2. Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No data available

### 10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

### 10.3. Possibility of hazardous reactions

Violent reaction with: Nitrite, Oxidising agent, Nitraten.

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### 10.4. Conditions to avoid

Protect from moisture.  
Keep away from heat.

### 10.5. Incompatible materials

Acid, Oxidising agent, Nitrites, Nitrate, Sulfide

### 10.6. Hazardous decomposition products

Sulphur dioxide (SO<sub>2</sub>)

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

CAS No.	Substance name	Toxicological information
7446-09-5	sulphur dioxide	LC <sub>50</sub> inhalative: 2,520 ppmV 1 h (Rat)

#### Acute oral toxicity:

Virtually nontoxic after a single ingestion.  
Virtually nontoxic by inhalation.  
LD50: Rat: approx. 2.300 mg/kg

#### Acute dermal toxicity:

LD50: Rat: approx. 2.000 mg/kg (OECD 402)  
The product has not been tested. The statement is derived from products of similar structure or composition.

#### Acute inhalation toxicity:

LC50: Rat: > 5,5 mg/l 4h (OECD 403)  
The product has not been tested. The statement is derived from products of similar structure or composition.

#### Skin corrosion/irritation:

Irritant effect on the skin: Not an irritant.  
Irritant effect on the skin: Rabbit: Not an irritant.

#### Eye damage/irritation:

Risk of serious damage to eyes.  
Risk of serious damage to eyes. Rabbit: Possible risk of irreversible effects. (OECD 405)

#### Respiratory or skin sensitisation:

Terrestrial animals: Following skin contact: not sensitising.  
Test was carried out with a similar formulation.  
May cause sensitisation especially in sensitive humans.

#### Carcinogenicity:

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

#### Germ cell mutagenicity

##### Assessment of mutagenicity:

No mutagen effect was found in various tests with bacteria and mammalian cell culture. The chemical structure does not suggest a specific alert for such an effect.

##### Assessment of carcinogenicity:

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

#### Developmental toxicity/teratogenicity

##### Assessment of teratogenicity:

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

#### Reproductive toxicity:

##### Assessment of reproduction toxicity:

The results of animal studies gave no indication of a fertility impairing effect. The product has not been tested. The statement has been derived from products of a similar structure and composition. The chemical structure does not suggest a specific alert for such an effect.

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### STOT-single exposure:

Based on available data, the classification criteria are not met.

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Aquatic toxicity:

Harmful to aquatic life. The product can hydrolyse. The stated effect can be caused partly by the decomposition products.

Acute fish toxicity

LC50: (96h) 460 - 1000 mg/l, Brachydanio rerio (zebra-fish) (OECD 203, ISO 7346)

Aquatic Chronic 1

NOEC: (34d)  $\geq$  316 mg/l, Brachydanio rerio (zebra-fish) (OECD 210)

The statement about the toxic effects refers to the nominal concentration level.

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

Acute Daphnia toxicity

EC50 (48h) 89 mg/l, Daphnia magna

NOEC: (21d)  $\geq$  10 mg/l, Daphnia magna (Big water flea) (OECD 211)

The statement about the toxic effects refers to the nominal concentration level. The product has not been tested. The statement is derived from products of similar structure or composition.

Algae toxicity

EC50 (72h) 43,8 mg/l, Scenedesmus subspicatus. The statement about the toxic effects refers to the nominal concentration level. The product has not been tested. The statement is derived from products of similar composition.

Effects on soil microorganisms

NOEC: (180 min.)  $\geq$  1.000 mg/l (OECD 209). The statement about the toxic effects refers to the nominal concentration level. The product has not been tested. The statement is derived from products of similar structure or composition.

### 12.2. Persistence and degradability

#### Additional information:

Inorganic product which is not eliminable from water through biological cleaning processes.

### 12.3. Bioaccumulative potential

#### Accumulation / Evaluation:

Based on the n-octanol/water partition coefficient accumulation in organisms is not expected.

### 12.4. Mobility in soil

No adsorption in soil or sediment.

### 12.5. Results of PBT and vPvB assessment

CAS No.	Substance name	Results of PBT and vPvB assessment
7446-09-5	sulphur dioxide	—
16731-55-8	dipotassium disulphite	—

This substance does not meet the criteria for classification as PBT or vPvB.

### 12.6. Other adverse effects

Chemical oxygen demand (COD): ca.140 mg/g calculated.

Further ecological information: The product can cause severe chemical oxygen demand in biological sewage plants or natural waters, which may have a negative effect on organisms. Technically correct releases of minimal concentrations to adapted biological sewage treatment facility, will not disturb the biodegradability of activated sludge.

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### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

The disposal of the product has to be carried out in accordance with the legal requirements. EWC waste codes are strictly industry-oriented, therefore waste classification has to be done by the waste producer.

#### Waste treatment options

##### Appropriate disposal / Package:

Non-contaminated packages may be recycled.

#### 13.2. Additional information

No data available

### SECTION 14: Transport information

No dangerous good in sense of these transport regulations.

#### 14.1. UN-No.

not relevant

#### 14.2. UN proper shipping name

not relevant

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

not relevant

#### 14.4. Packing group

not relevant

#### 14.5. Environmental hazards

not relevant

#### 14.6. Special precautions for user

not relevant

#### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not relevant

### SECTION 15: Regulatory information

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

##### 15.1.1. EU legislation

No data available

##### 15.1.2. National regulations

 [DE] National regulations

#### Technische Anleitung Luft (TA-Luft)

##### Ziffer 1:

5.2.1

#### Water hazard class (WGK)

##### WGK:

1 - schwach wassergefährdend

##### Source:

Anh. 3

#### 15.2. Chemical Safety Assessment

No data available



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### 15.3. Additional information

No data available

## SECTION 16: Other information

### 16.1. Indication of changes

SECTION 3: Composition / information on ingredients

SECTION 9: Physical and chemical properties and safety characteristics

SECTION 11: Toxicological information

SECTION 12: Ecological information

### 16.2. Abbreviations and acronyms

No data available

### 16.3. Key literature references and sources for data

No data available

### 16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

**Classification according to Regulation (EC) No 1272/2008 [CLP]:**

Hazard classes and hazard categories	Hazard statements	Classification procedure
Serious eye damage/eye irritation (Eye Dam. 1)	H318: Causes serious eye damage.	

### 16.5. Relevant R-, H- and EUH-phrases (Number and full text)

No data available

### 16.6. Training advice

No data available

### 16.7. Additional information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.