

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

#### 1.1. Product identifier

|                               |                       |
|-------------------------------|-----------------------|
| Product form                  | : Mixture             |
| Trade name                    | : SULFISOL 18%        |
| UFI                           | : GYU3-P94D-E101-QWFU |
| Type of product               | : Preserving agent    |
| Product group                 | : Trade product       |
| Other means of identification | : E228 - E220         |

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

##### 1.2.1. Relevant identified uses

|                                  |                                                                                                                                                                        |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Main use category                | : Professional use                                                                                                                                                     |
| Industrial/Professional use spec | : For professional users only                                                                                                                                          |
| Use of the substance/mixture     | : Potassium bisulphite (E228) and sulphur dioxide (E220) in aqueous solution, containing 180 g/L of pure sulphur dioxide. Sulphating of juice and wines. Preservative. |
| Use of the substance/mixture     | : For œnological use                                                                                                                                                   |

##### 1.2.2. Uses advised against

|                     |                            |
|---------------------|----------------------------|
| Restrictions on use | : Food/feedstuff additives |
|---------------------|----------------------------|

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

##### Manufacturer

LAMOTHE-ABIET  
Avenue Ferdinand de Lesseps ZA-ACTIPOLIS  
33610 CANEJAN - FRANCE  
T +33557779292 - F +33556864002  
[contact@lamothe-abiet.com](mailto:contact@lamothe-abiet.com)

#### 1.4. Emergency telephone number

| Country | Organisation/Company                                                     | Address                      | Emergency number | Comment                                                                                                                                          |
|---------|--------------------------------------------------------------------------|------------------------------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Belgium | Centre Anti-Poisons/Antigifcentrum<br>c/o Hôpital Militaire Reine Astrid | Rue Bruyn 1<br>1120 Brussels | +32 70 245 245   | Please dial: 070 245 245 for any urgent questions about intoxication (free of charge 24/7), if not accessible, dial: 02 264 96 30 (standard fee) |

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|                |                                                                                                                                     |                                                             |                                                                                                          |                                                                                                                                                                                                                                                 |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Bulgaria       | Национален токсикологичен<br>информационен център<br>Многопрофилна болница за<br>активно лечение и спешна<br>медицина "Н.И.Пирогов" | бул. Ген. Едуард И.<br>Тотлебен 21<br>1606 София            | +359 2 9154 233                                                                                          |                                                                                                                                                                                                                                                 |
| Croatia        | Centar za kontrolu otrovanja<br>Institut za medicinska<br>istraživanja i medicinu rada                                              | Ksaverska Cesta 2<br>p.p. 291<br>10000 Zagreb               | +385 1 234 8342                                                                                          | Information<br>available 24/7 in<br>Croatian and<br>English                                                                                                                                                                                     |
| Czech Republic | Toxikologické informační<br>středisko<br>Klinika pracovního lékařství VFN<br>a 1. LF UK                                             | Na Bojišti 1<br>120 00 Praha 2                              | +420 224 919 293<br>+420 224 915 402                                                                     |                                                                                                                                                                                                                                                 |
| Denmark        | Giftlinjen                                                                                                                          | Bispebjerg Bakke 23<br>Opgang 20 C<br>2400 København NV     | +45 82 12 12 12                                                                                          |                                                                                                                                                                                                                                                 |
| France         | ORFILA                                                                                                                              |                                                             | +33 1 45 42 59 59                                                                                        | This number<br>provides contact<br>details for all<br>French Poison<br>Control centers.<br>These poison and<br>toxicovigilance<br>centers provide<br>free medical<br>assistance<br>(excluding call<br>costs), 24 hours a<br>day, 7 days a week. |
| Greece         | Poisons Information Centre<br>Children's Hospital P&A Kyriakou                                                                      | 11762 Athens                                                | +30 2 10 779 3777                                                                                        |                                                                                                                                                                                                                                                 |
| Hungary        | Országos Kémiai Biztonsági<br>Intézet<br>Egészségügyi Toxikológiai<br>Tájékoztató Szolgálat                                         | Nagyvárad tér 2.<br>1437 Budapest, Pf. 839<br>1097 Budapest | +36 80 20 11 99                                                                                          |                                                                                                                                                                                                                                                 |
| Ireland        | National Poisons Information<br>Centre<br>Beaumont Hospital                                                                         | PO Box 1297<br>Beaumont Road<br>9 Dublin                    | +353 1 809 2566<br>(Healthcare<br>professionals-24/7)<br>+353 1 809 2166<br>(public, 8am - 10pm,<br>7/7) |                                                                                                                                                                                                                                                 |

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|                |                                                                                                         |                                                           |                                |                                      |
|----------------|---------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|--------------------------------|--------------------------------------|
| Malta          | Medicines & Poisons Info Office                                                                         | Mater Dei Hospital<br>Msida<br>MSD 2090 Msida             | +356 2545 6508                 |                                      |
| Malta          | Medicines & Poisons Info Office                                                                         | Mater Dei Hospital<br>MSD Msida                           | +356 2545 6504                 |                                      |
| Poland         | National Poisons Information<br>Centre<br>The Nofer Institute of<br>Occupational Medicine (Łódź)        | ul. Teresy 8<br>P.O. BOX 199<br>90950 Łódź                | +48 42 63 14 724               |                                      |
| Romania        | Department of Clinical<br>Toxicology<br>Spitalul de Urgenta Floreasca                                   | Calea Floreasca<br>Bucuresti                              | +40 21 230 8000                |                                      |
| Serbia         | Nacionalni centar za kontrolu<br>trovanja - VMA                                                         | Crnotravska 17<br>11000 Beograd                           | +381 11 360 84 40              |                                      |
| Slovenia       | Center za klinično toksikologijo in<br>farmakologijo<br>Interna klinika, UKCL                           | Zaloška 7<br>1000 Ljubljana                               | +386 522 52 83                 |                                      |
| Sweden         | Giftinformationscentralen                                                                               | Solna Strandväg 21<br>171 54 Solna                        | 112 – begär<br>Giftinformation |                                      |
| United Kingdom | National Poisons Information<br>Service (Belfast Centre)<br>Royal Victoria Hospital                     | Grosvenor Road<br>BT12 6BA                                | 0344 892 0111                  | Only for healthcare<br>professionals |
| United Kingdom | National Poisons Information<br>Service (Birmingham Centre)<br>City Hospital                            | Dudley Road<br>B18 7QH                                    | 0344 892 0111                  | Only for healthcare<br>professionals |
| United Kingdom | National Poisons Information<br>Service (Cardiff Centre)<br>University Hospital Llandough               | Penlan Road<br>CF64 2XX                                   | 0344 892 0111                  | Only for healthcare<br>professionals |
| United Kingdom | National Poisons Information<br>Service (Edinburgh Centre)<br>Royal Infirmary of Edinburgh              | Little France Crescent<br>EH16 4SA                        | 0344 892 0111                  | Only for healthcare<br>professionals |
| United Kingdom | Guy's & St Thomas' Poisons Unit<br>Medical Toxicology Unit, Guy's &<br>St Thomas' Hospital Trust        | Avonley Road<br>SE14 5ER                                  | +44 20 7188 7188               |                                      |
| United Kingdom | National Poisons Information<br>Service (Newcastle Centre)<br>Regional Drugs and Therapeutics<br>Centre | 16/17 Framlington Place<br>Newcastle-upon-Tyne<br>NE2 4AB | 0344 892 0111                  | Only for healthcare<br>professionals |

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### SECTION 2: Hazards identification

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

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

Serious eye damage/eye irritation, Category 2 H319  
Specific target organ toxicity – Single exposure, Category 3, H335  
Respiratory tract irritation  
Full text of H- and EUH-statements: see section 16

##### Adverse physicochemical, human health and environmental effects

Causes serious eye irritation. May cause irritation to the respiratory tract.

#### 2.2. Label elements

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

Hazard pictograms (CLP) :   
GHS07

Signal word (CLP) : Warning

Hazard statements (CLP) : H319 - Causes serious eye irritation.  
H335 - May cause respiratory irritation.

Precautionary statements (CLP) : P261 - Avoid breathing fume, gas, mist, spray, vapours.  
P271 - Use only outdoors or in a well-ventilated area.  
P280 - Wear protective gloves, protective clothing, eye protection, face protection.  
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.  
P312 - Call a doctor, a POISON CENTER if you feel unwell.

EUH-statements : EUH031 - Contact with acids liberates toxic gas.

#### 2.3. Other hazards

No additional information available

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

| Name                                                                                 | Product identifier                        | %       | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--------------------------------------------------------------------------------------|-------------------------------------------|---------|-----------------------------------------------------------------|
| Potassium bisulfite - E228<br>substance with a Community workplace<br>exposure limit | (CAS-No.) 7773-03-7<br>(EC-No.) 231-870-1 | 10 – 20 | Eye Irrit. 2, H319<br>STOT SE 3, H335                           |

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|                                                                                  |                                                                                                         |       |                                                                                                                                                       |
|----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sulphur dioxide (E220)<br>substance with a Community workplace<br>exposure limit | (CAS-No.) 7446-09-5<br>(EC-No.) 231-195-2<br>(EC Index-No.) 016-011-00-9<br>(REACH-no) 01-2119485028-34 | 1 – 5 | Press. Gas<br>Acute Tox. 3 (Inhalation),<br>H331 (ATE=700 ppmv/4h)<br>Acute Tox. 3 (Inhalation:gas),<br>H331 (ATE=700 ppmv/4h)<br>Skin Corr. 1B, H314 |
|----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------|

Full text of H- and EUH-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                                       |                                                                                                                                                                                                                                                                                                                                                                                    |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| First-aid measures general            | : In case of doubt or persistent symptoms, consult always a physician. Remove victim from polluted area. Take off immediately all contaminated clothing. Never give anything by mouth to an unconscious person. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.                                           |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing. If symptoms persist, call a physician.                                                                                                                                                                                                                                                                            |
| First-aid measures after skin contact | : After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap. Get medical advice if skin irritation persists.                                                                                                                                                                                                     |
| First-aid measures after eye contact  | : In case of eye contact, immediately rinse with clean water for 10-15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an eye specialist.                                                                                                                                                                                                     |
| First-aid measures after ingestion    | : If swallowed, rinse mouth with water (only if the person is conscious). Never attempt to induce vomiting : risk of inhalation. Remove person to fresh air and keep comfortable for breathing. Loosen tight clothing such as a collar, tie, belt or waistband. If unconscious place in recovery position and seek medical advice. P310 - Immediately call a POISON CENTER/doctor. |

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

|                                     |                                                                                                  |
|-------------------------------------|--------------------------------------------------------------------------------------------------|
| Symptoms/effects                    | : More detailed information: See section 11.                                                     |
| Symptoms/effects after inhalation   | : May cause respiratory irritation.                                                              |
| Symptoms/effects after skin contact | : May cause skin irritation / dermatitis.                                                        |
| Symptoms/effects after eye contact  | : Eye irritation. Serious damage to eyes.                                                        |
| Symptoms/effects after ingestion    | : May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract. |

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

Treat symptomatically. Seek a medical assistance, even if there are no immediate symptoms.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

|                                |                                                                                   |
|--------------------------------|-----------------------------------------------------------------------------------|
| Suitable extinguishing media   | : carbon dioxide (CO <sub>2</sub> ), powder, alcohol-resistant foam, water spray. |
| Unsuitable extinguishing media | : Do not use water jet.                                                           |

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

Hazardous decomposition products in case of fire : Hazardous vapours may be released. Sulphur dioxide.

### 5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

Other information : Do not contaminate ground and surface water. Dispose in a safe manner in accordance with local/national regulations.

## SECTION 6: Accidental release measures

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

General measures : Evacuate personnel to a safe area.

#### 6.1.1. For non-emergency personnel

Protective equipment : Wear personal protective equipment.

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Do not flush into surface water or sewer system.

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

For containment : Cover spill with non combustible material, e.g.: sand, earth, vermiculite.

Methods for cleaning up : Mechanically recover the product. Shovel into suitable and closed container for disposal. Clean contaminated surfaces with an excess of water.

Other information : Dispose of materials or solid residues at an authorized site. Do not allow to enter drains or water courses.

### 6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8. For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Store tightly closed in a dry and cool place. Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment. Avoid inhalation of vapours.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. If on skin, take off contaminated clothing. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

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

|                           |                                                                                                                                           |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Technical measures        | : Keep only in the original container.                                                                                                    |
| Storage conditions        | : Keep in a well-ventilated room. Store tightly closed in a dry and cool place.<br>Store away from direct sunlight or other heat sources. |
| Incompatible products     | : Strong acids and oxidants.                                                                                                              |
| Heat and ignition sources | : Keep away from ignition sources (including static discharges). Store away from heat.                                                    |

### 7.3. Specific end use(s)

For œnological use.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

|                                                    |                |
|----------------------------------------------------|----------------|
| Potassium bisulfite - E228 (7773-03-7)             |                |
| EU - Indicative Occupational Exposure Limit (IOEL) |                |
| IOEL TWA                                           | 2 ppm          |
| IOEL STEL                                          | 5 ppm SO2      |
| France - Occupational Exposure Limits              |                |
| VME (OEL TWA)                                      | ≈ 5 mg/m³      |
|                                                    | ≈ 2 ppm        |
| VLE (OEL C/STEL)                                   | ≈ 10 mg/m³ SO2 |
|                                                    | ≈ 5 ppm        |
| USA - ACGIH - Occupational Exposure Limits         |                |
| ACGIH OEL STEL                                     | 0.25 ppm SO2   |

|                                                    |                                    |
|----------------------------------------------------|------------------------------------|
| Sulphur dioxide (E220) (7446-09-5)                 |                                    |
| EU - Indicative Occupational Exposure Limit (IOEL) |                                    |
| Local name                                         | Sulphur dioxide                    |
| IOEL TWA                                           | 1.3 mg/m³                          |
|                                                    | 0.5 ppm                            |
| IOEL STEL                                          | 2.7 mg/m³                          |
|                                                    | 1 ppm                              |
| Regulatory reference                               | COMMISSION DIRECTIVE (EU) 2017/164 |
| Spain - Occupational Exposure Limits               |                                    |
| Local name                                         | Dióxido de azufre                  |
| VLA-ED (OEL TWA)                                   | 1.32 mg/m³                         |

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| Sulphur dioxide (E220) (7446-09-5) |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                    | 0.5 ppm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| VLA-EC (OEL STEL)                  | 2.64 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                                    | 1 ppm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Remark                             | s (Esta sustancia tiene prohibida total o parcialmente su comercialización y uso como fitosanitario y/o como biocida. Para una información detallada acerca de las prohibiciones consúltese: Base de datos de productos biocidas: <a href="http://www.msssi.gob.es/ciudadanos/productos.do?tipo=plaguicidas">http://www.msssi.gob.es/ciudadanos/productos.do?tipo=plaguicidas</a> Base de datos de productos fitosanitarios <a href="http://www.magrama.gob.es/agricultura/pags/fitos/registro/fichas/pdf/Lista_sa.pdf">http://www.magrama.gob.es/agricultura/pags/fitos/registro/fichas/pdf/Lista_sa.pdf</a> ). |
| Regulatory reference               | Límites de Exposición Profesional para Agentes Químicos en España 2024. INSHT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

### 8.1.2. Recommended monitoring procedures

No additional information available

### 8.1.3. Air contaminants formed

No additional information available

### 8.1.4. DNEL and PNEC

No additional information available

### 8.1.5. Control banding

No additional information available

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

### 8.2.2. Personal protection equipment

#### Personal protective equipment:

Refer to protective measures listed in Sections 7 and 8.

#### Personal protective equipment symbol(s):



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### 8.2.2.1. Eye and face protection

|                 |                      |                   |          |
|-----------------|----------------------|-------------------|----------|
| Eye protection: |                      |                   |          |
| Safety glasses  |                      |                   |          |
| Type            | Field of application | Characteristics   | Standard |
| Safety glasses  |                      | With side shields | EN 166   |

### 8.2.2.2. Skin protection

|                                        |          |
|----------------------------------------|----------|
| Skin and body protection:              |          |
| Wear suitable protective clothing      |          |
| Type                                   | Standard |
| Chemically resistant protective gloves | EN 374   |

|                                        |                         |                   |                |             |            |
|----------------------------------------|-------------------------|-------------------|----------------|-------------|------------|
| Hand protection:                       |                         |                   |                |             |            |
| Protective gloves                      |                         |                   |                |             |            |
| Type                                   | Material                | Permeation        | Thickness (mm) | Penetration | Standard   |
| Chemically resistant protective gloves | Chloroprene rubber (CR) | 6 (> 480 minutes) | 0.5            |             | EN ISO 374 |
| Chemically resistant protective gloves | Polyvinylchloride (PVC) | 6 (> 480 minutes) | 0.7            |             | EN ISO 374 |

|                                                                      |
|----------------------------------------------------------------------|
| Other skin protection                                                |
| Materials for protective clothing:                                   |
| Long sleeved protective clothing. Use chemically protective clothing |

### 8.2.2.3. Respiratory protection

|                                                                                                  |
|--------------------------------------------------------------------------------------------------|
| Respiratory protection:                                                                          |
| In case of insufficient ventilation, wear suitable respiratory equipment. EN 143. EN 145. EN 149 |

### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

Environmental exposure controls:  
Do not allow into drains or water courses. Avoid release to the environment.

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### Other information:

Do not eat, drink or smoke during work. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

## SECTION 9: Physical and chemical properties

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

|                                                 |                                                   |
|-------------------------------------------------|---------------------------------------------------|
| Physical state                                  | : Liquid                                          |
| Colour                                          | : pale. amber.                                    |
| Odour                                           | : characteristic.                                 |
| Odour threshold                                 | : Not available                                   |
| Melting point                                   | : Not available                                   |
| Freezing point                                  | : Not applicable                                  |
| Boiling point                                   | : Not available                                   |
| Flammability                                    | : Non flammable.                                  |
| Explosive limits                                | : Not applicable                                  |
| Lower explosion limit                           | : Not available                                   |
| Upper explosion limit                           | : Not available                                   |
| Flash point                                     | : > 100 °C Not applicable                         |
| Auto-ignition temperature                       | : Not applicable                                  |
| Decomposition temperature                       | : Not available                                   |
| pH                                              | : ≈ 5 20°C                                        |
| Viscosity, kinematic                            | : Not applicable                                  |
| Solubility                                      | : Soluble in water. Slightly soluble in: Ethanol. |
| Partition coefficient n-octanol/water (Log Kow) | : Not available                                   |
| Vapour pressure                                 | : Not available                                   |
| Vapour pressure at 50°C                         | : Not available                                   |
| Density                                         | : 1.19 kg/l 20°C                                  |
| Relative density                                | : Not applicable                                  |
| Relative vapour density at 20°C                 | : Not available                                   |
| Particle size                                   | : Not applicable                                  |
| Particle size distribution                      | : Not applicable                                  |
| Particle shape                                  | : Not applicable                                  |
| Particle aspect ratio                           | : Not applicable                                  |
| Particle aggregation state                      | : Not applicable                                  |
| Particle agglomeration state                    | : Not applicable                                  |
| Particle specific surface area                  | : Not applicable                                  |
| Particle dustiness                              | : Not applicable                                  |

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

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### 9.2.2. Other safety characteristics

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions. On contact with acid releases: Sulphur dioxide.

### 10.3. Possibility of hazardous reactions

May react violently with oxidants. May react violently with acids.

### 10.4. Conditions to avoid

Heat. flames or sparks.

### 10.5. Incompatible materials

Oxidizing agent. Acids.

### 10.6. Hazardous decomposition products

See Section 5.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified  
Acute toxicity (dermal) : Not classified  
Acute toxicity (inhalation) : Not classified

| Potassium bisulfite - E228 (7773-03-7) |                                                                                                        |
|----------------------------------------|--------------------------------------------------------------------------------------------------------|
| LD50 oral rat                          | > 2300 mg/kg bodyweight                                                                                |
| LD50 dermal rat                        | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)             |
| LD50 dermal rabbit                     | ≤                                                                                                      |
| LC50 Inhalation - Rat                  | > 5.5 mg/l/4h Animal: rat, Animal sex: male, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity) |

Skin corrosion/irritation : Slightly irritant but not relevant for classification  
pH: ≈ 5 20°C

Serious eye damage/irritation : Severe eye irritation  
pH: ≈ 5 20°C

Additional information : Causes serious eye damage.

Respiratory or skin sensitisation : May cause allergy or asthma symptoms or breathing difficulties if inhaled. Not classified

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|                        |                                     |
|------------------------|-------------------------------------|
| Germ cell mutagenicity | : Not classified                    |
| Carcinogenicity        | : Not classified                    |
| Reproductive toxicity  | : Not classified                    |
| STOT-single exposure   | : May cause respiratory irritation. |

|                                               |                                   |
|-----------------------------------------------|-----------------------------------|
| <b>Potassium bisulfite - E228 (7773-03-7)</b> |                                   |
| STOT-single exposure                          | May cause respiratory irritation. |

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

|                      |                |
|----------------------|----------------|
| <b>SULFISOL 18%</b>  |                |
| Viscosity, kinematic | Not applicable |

### 11.2. Information on other hazards

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

|                                                           |                            |
|-----------------------------------------------------------|----------------------------|
| Ecology - general                                         | : Harmful to aquatic life. |
| Hazardous to the aquatic environment, short-term (acute)  | : Not classified           |
| Hazardous to the aquatic environment, long-term (chronic) | : Not classified           |

|                                               |                                                                                                                                            |
|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Potassium bisulfite - E228 (7773-03-7)</b> |                                                                                                                                            |
| LC50 - Fish [1]                               | 450 – 1000 mg/l Brachydanio rerio                                                                                                          |
| EC50 - Crustacea [1]                          | 230 mg/l Test organisms (species): Daphnia magna                                                                                           |
| EC50 - Other aquatic organisms [1]            | 65 mg/l Pseudomonas putida - 17h                                                                                                           |
| EC50 72h - Algae [1]                          | > 100 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum) |
| NOEC (chronic)                                | > 10 mg/l Test organisms (species): Daphnia magna Duration: '21 d'                                                                         |
| NOEC chronic fish                             | ≥ 316 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) Duration: '34 d'                                       |

|                                           |                                                  |
|-------------------------------------------|--------------------------------------------------|
| <b>Sulphur dioxide (E220) (7446-09-5)</b> |                                                  |
| LC50 - Fish [1]                           | 5000 ppm Salvenus spec.                          |
| LC50 - Fish [2]                           | 3200 µg/l Atlantic menhaden, Brevoortia tyrannus |

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### 12.2. Persistence and degradability

| Potassium bisulfite - E228 (7773-03-7) |                                                                                     |
|----------------------------------------|-------------------------------------------------------------------------------------|
| Persistence and degradability          | May be harmful to aquatic organisms, to flora, to soil organisms.<br>Biodegradable. |

| Sulphur dioxide (E220) (7446-09-5) |                                               |
|------------------------------------|-----------------------------------------------|
| Persistence and degradability      | Not applicable. Inorganic Gaseous Substances. |

### 12.3. Bioaccumulative potential

| Potassium bisulfite - E228 (7773-03-7) |                              |
|----------------------------------------|------------------------------|
| Bioaccumulative potential              | There is no bioaccumulation. |

| Sulphur dioxide (E220) (7446-09-5) |                 |
|------------------------------------|-----------------|
| Bioaccumulative potential          | Not applicable. |

### 12.4. Mobility in soil

| Sulphur dioxide (E220) (7446-09-5) |                 |
|------------------------------------|-----------------|
| Ecology - soil                     | Not applicable. |

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

- Other adverse effects : Do not allow to enter drains or water courses, If the product is not neutralised, it may have harmful effects on the aquatic environment
- At high concentrations : The product is suspected to inhibit waste water biological treatment systems

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

- Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
- Sewage disposal recommendations : Neutralise with a carbonate solution and wash with plenty of water. Do not flush into surface water or sewer system.
- Product/Packaging disposal recommendations : Empty remaining contents. Neutralise with a carbonate solution and wash with plenty of water. Dispose of contents/container in accordance with licensed collector's sorting instructions.

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### SECTION 14: Transport information

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

#### 14.1. UN number or ID number

|               |                 |
|---------------|-----------------|
| UN-No. (ADR)  | : Not regulated |
| UN-No. (IMDG) | : Not regulated |
| UN-No. (IATA) | : Not regulated |
| UN-No. (ADN)  | : Not regulated |
| UN-No. (RID)  | : Not regulated |

#### 14.2. UN proper shipping name

|                             |                 |
|-----------------------------|-----------------|
| Proper Shipping Name (ADR)  | : Not regulated |
| Proper Shipping Name (IMDG) | : Not regulated |
| Proper Shipping Name (IATA) | : Not regulated |
| Proper Shipping Name (ADN)  | : Not regulated |
| Proper Shipping Name (RID)  | : Not regulated |

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

##### ADR

|                                  |                 |
|----------------------------------|-----------------|
| Transport hazard class(es) (ADR) | : Not regulated |
|----------------------------------|-----------------|

##### IMDG

|                                   |                 |
|-----------------------------------|-----------------|
| Transport hazard class(es) (IMDG) | : Not regulated |
|-----------------------------------|-----------------|

##### IATA

|                                   |                 |
|-----------------------------------|-----------------|
| Transport hazard class(es) (IATA) | : Not regulated |
|-----------------------------------|-----------------|

##### ADN

|                                  |                 |
|----------------------------------|-----------------|
| Transport hazard class(es) (ADN) | : Not regulated |
|----------------------------------|-----------------|

##### RID

|                                  |                 |
|----------------------------------|-----------------|
| Transport hazard class(es) (RID) | : Not regulated |
|----------------------------------|-----------------|

#### 14.4. Packing group

|                      |                 |
|----------------------|-----------------|
| Packing group (ADR)  | : Not regulated |
| Packing group (IMDG) | : Not regulated |
| Packing group (IATA) | : Not regulated |
| Packing group (ADN)  | : Not regulated |
| Packing group (RID)  | : Not regulated |

#### 14.5. Environmental hazards

|                               |                                          |
|-------------------------------|------------------------------------------|
| Dangerous for the environment | : No                                     |
| Marine pollutant              | : No                                     |
| Other information             | : No supplementary information available |

#### 14.6. Special precautions for user

##### Overland transport

Not regulated

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### Transport by sea

Not regulated

### Air transport

Not regulated

### Inland waterway transport

Not regulated

### Rail transport

Not regulated

## 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

#### 15.1.1. EU-Regulations

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

Contains no substance(s) listed on the REACH Candidate List

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

#### 15.1.2. National regulations

##### Germany

Water hazard class (WGK) : WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1)

Hazardous Incident Ordinance (12. BImSchV) : Is not subject to the Hazardous Incident Ordinance (12. BImSchV)

##### Netherlands

SZW-lijst van kankerverwekkende stoffen : None of the components are listed

SZW-lijst van mutagene stoffen : None of the components are listed

SZW-lijst van reprotoxische stoffen –

Borstvoeding

SZW-lijst van reprotoxische stoffen – : None of the components are listed

Vruchtbaarheid

SZW-lijst van reprotoxische stoffen – : None of the components are listed

Ontwikkeling

##### Denmark

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

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### SECTION 16: Other information

| Indication of changes: |                                     |          |          |
|------------------------|-------------------------------------|----------|----------|
| Revision - See : *.    |                                     |          |          |
| Section                | Changed item                        | Change   | Comments |
| 1.1                    | Type of product                     | Added    |          |
| 4.1                    | First-aid measures after ingestion  | Modified |          |
| 4.2                    | Symptoms/effects after skin contact | Added    |          |
| 4.2                    | Symptoms/effects after ingestion    | Added    |          |
| 5.2                    | Fire                                | Added    |          |
| 7.2                    | Storage conditions                  | Modified |          |
| 8.1                    | Control parameters                  | Added    |          |
| 8.2                    | Respiratory protection              | Added    |          |
| 9.1                    | Flash point                         | Added    |          |
| 11.1                   | Skin corrosion/irritation           | Added    |          |
| 11.1                   | Respiratory or skin sensitisation   | Added    |          |
| 15.2                   | Chemical safety assessment          | Modified |          |

|                                     |                                                                                            |
|-------------------------------------|--------------------------------------------------------------------------------------------|
| Full text of H- and EUH-statements: |                                                                                            |
| Acute Tox. 3 (Inhalation)           | Acute toxicity (inhal.), Category 3                                                        |
| Acute Tox. 3 (Inhalation:gas)       | Acute toxicity (inhalation:gas) Category 3                                                 |
| EUH031                              | Contact with acids liberates toxic gas.                                                    |
| Eye Irrit. 2                        | Serious eye damage/eye irritation, Category 2                                              |
| H314                                | Causes severe skin burns and eye damage.                                                   |
| H319                                | Causes serious eye irritation.                                                             |
| H331                                | Toxic if inhaled.                                                                          |
| H335                                | May cause respiratory irritation.                                                          |
| Press. Gas                          | Gases under pressure                                                                       |
| Skin Corr. 1B                       | Skin corrosion/irritation, Category 1, Sub-Category 1B                                     |
| STOT SE 3                           | Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation |

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.