

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

#### 1.1. Product identifier

|                 |                                    |
|-----------------|------------------------------------|
| Product form    | : Mixture                          |
| Trade name      | : BISULFITE NH4 100, 150, 200, 400 |
| UFI             | : S349-A9JN-C10A-JHNE              |
| EC-No.          | : 233-469-7                        |
| CAS-No.         | : 10192-30-0                       |
| Type of product | : Preserving agent                 |
| Formula         | : NH4HSO3                          |
| Product group   | : Trade product                    |

#### 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     | : Aqueous solution of Ammonium Bisulphite. Sulphiting of grape musts and new wines still in fermentation. |
| Use of the substance/mixture     | : For œnological use  |

##### 1.2.2. Uses advised against

No additional information available

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

##### Supplier

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

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### 1.4. Emergency telephone number

| Country        | Organisation/Company   | Address   | Emergency number                     | Comment  |
|----------------|--|---|--------------------------------------|--|
| Australia      | NSW Poisons Information Centre<br>The Children's Hospital at Westmead  | Locked Bag 4001<br>NSW 2145   | 13 11 26                             |  |
| Bulgaria       | Национален токсикологичен<br>информационен център<br>Многопрофилна болница за активно<br>лечение и спешна медицина "Н.И.Пирогов" | бул. Ген. Едуард И. Тотлебен<br>21<br>1606 София  | +359 2 9154 233                      |  |
| Canada         | Ontario Poison Centre (OPC)  | The Hospital for Sick Children<br>555 University Avenue<br>ON M5G 1X8 Toronto                       | 1-800-268-9017<br>(416) 813-5900     |  |
| Canada         | BC Drug and Poison Information Centre (DPIC)   | 655 West 12th Avenue<br>BC V5Z 4R4 Vancouver  | 1-800-567-8911<br>(604) 682-5050     |  |
| China          | National Poison Control Center   | Chinese Center for Disease<br>Control and Prevention<br>Nanwei road, No.29<br>100050 Beijing        | +86 10 831 32 046                    |  |
| Croatia        | Centar za kontrolu otrovanja<br>Institut za medicinska istraživanja i medicinu<br>rada   | Ksaverska Cesta 2<br>p.p. 291<br>10000 Zagreb   | +385 1 234 8342                      | Information available<br>24/7 in Croatian and<br>English |
| Czech Republic | Toxikologické informační středisko<br>Klinika pracovního lékařství VFN 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                      |  |
| Georgia        | National Toxicology Information Advisory<br>Center   | Tbilisi State Medical University<br>Department of Toxicology - 7<br>Asatiani St.<br>380 077 Tbilisi | +995 99 533320                       |  |
| Greece         | Poisons Information Centre<br>Children's Hospital P&A Kyriakou   | 11762 Athens  | +30 2 10 779 3777                    |  |
| Hungary        | Országos Kémiai Biztonsági Intézet<br>Egészségügyi Toxikológiai Tájékoztató<br>Szolgálat   | Nagyvárad tér 2.<br>1437 Budapest, Pf. 839<br>1097 Budapest   | +36 80 20 11 99                      |  |
| Israel         | Israel Poison Information Center<br>Rambam Health Care Campus  | 6 Ha'Aliya Street<br>31096  | +972 4 854 1900                      |  |
| Japan          | Japan Poison Information Center  | Tsukuba Medical Center<br>1-1-1 Amakubo<br>305-0005 Tsukuba City, Ibaraki                           | +81-29-856-3566<br>+81-72-727-2499   |  |

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| Country        | Organisation/Company   | Address   | Emergency number                       | Comment  |
|----------------|--|---|--|--|
| Jordan         | National Drug & Poison Information Center of Jordan  |   | 0798506755<br>00962-6-5353444          |  |
| Kazakhstan     | Republican Toxicology Center   | Tole-bi 93<br>480083 Almaty   | +7 3272 925 868                        |  |
| Malta          | Medicines & Poisons Info Office  | Mater Dei Hospital<br>MSD Msida   | +356 2545 6504                         |  |
| New Zealand    | National Poisons Centre  | Dunedin School of Medicine,<br>University of Otago<br>PO Box 913<br>9054 Dunedin  | 0800 764 766<br>+56 2 2 247 3600       |  |
| Poland         | National Poisons Information Centre<br>The Nofer Institute of Occupational Medicine<br>(Łódź)                          | ul. Teresy 8<br>P.O. BOX 199<br>90950 Łódź  | +48 42 63 14 724                       |  |
| Romania        | Department of Clinical Toxicology<br>Spitalul de Urgenta Floreasca   | Calea Floreasca<br>Bucuresti  | +40 21 230 8000                        |  |
| Russia         | Информационно-консультативный центр<br>по токсикологии (RTIAC)<br>Министерство здравоохранения<br>Российской Федерации | 3 Сухареvская Площадь<br>Блок 7<br>129090 г. Москва   | +7 495 628 1687 (только на<br>русском) |  |
| Serbia         | Nacionalni centar za kontrolu 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                         |  |
| South Africa   | Tygerberg Poison Information Centre  | Division of Clinical Pharmacology<br>Faculty of Medicine and Health<br>Sciences<br>Stellenbosch University - PO Box<br>241<br>8 000 Cape Town | 0861 555 777<br>+56 2 2 247 3600       |  |
| Sweden         | Giftinformationscentralen  | Solna Strandväg 21<br>171 54 Solna  | 112 – begär Giftinformation            |  |
| Turkey         | Ulusal Zehir Merkezi (UZEM)<br>Refik Saydam Hıfzısıhha Merkezi Başkanlığı  | Cemal Gürsel Cd. No: 18 Sıhhiye<br>Çankaya<br>06590 Ankara  | 114                                    | Information is provided<br>to public and medical<br>personnel on poisoning<br>incidents via 114. |
| United Kingdom | National Poisons Information Service (Belfast<br>Centre)<br>Royal Victoria Hospital                                    | Grosvenor Road<br>BT12 6BA  | 0344 892 0111                          | Only for healthcare<br>professionals   |
| United Kingdom | National Poisons Information Service<br>(Birmingham Centre)<br>City Hospital   | Dudley Road<br>B18 7QH  | 0344 892 0111                          | Only for healthcare<br>professionals   |
| United Kingdom | National Poisons Information Service (Cardiff<br>Centre)<br>University Hospital Llandough                              | Penlan Road<br>CF64 2XX   | 0344 892 0111                          | Only for healthcare<br>professionals   |
| United Kingdom | National Poisons Information Service<br>(Edinburgh Centre)<br>Royal Infirmary of Edinburgh                             | Little France Crescent<br>EH16 4SA  | 0344 892 0111                          | Only for healthcare<br>professionals   |

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| Country                     | Organisation/Company   | Address   | Emergency number                   | Comment                              |
|-----------------------------|--|---|------------------------------------|--------------------------------------|
| United Kingdom              | Guy's & St Thomas' Poisons Unit<br>Medical Toxicology Unit, Guy's & St Thomas'<br>Hospital Trust     | Avonley Road<br>SE14 5ER                                  | +44 20 7188 7188                   |                                      |
| United Kingdom              | National Poisons Information Service<br>(Newcastle Centre)<br>Regional Drugs and Therapeutics Centre | 16/17 Framlington Place<br>Newcastle-upon-Tyne<br>NE2 4AB | 0344 892 0111                      | Only for healthcare<br>professionals |
| United States of<br>America | American Association of Poison Control<br>Centers  | 515 King St., Suite 510<br>VA 22314 Alexandria            | 1-800-222-1222<br>+56 2 2 247 3600 |                                      |

### 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, Respiratory tract  
irritation H335  
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. May cause respiratory irritation.

#### 2.2. Label elements

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

Hazard pictograms (CLP)



GHS07

Signal word (CLP) : Warning  
Contains : Ammonium Bisulphite (concentrated aqueous solution)  
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 POISON CENTER, doctor if you feel unwell.  
EUH-statements : EUH031 - Contact with acids liberates toxic gas.

#### 2.3. Other hazards

Contains no PBT and/or vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

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### 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] |
|---|--|---------|---|
| Ammonium Bisulphite (concentrated aqueous solution) | CAS-No.: 10192-30-0<br>EC-No.: 233-469-7 | 10 – 40 | Eye Irrit. 2, H319<br>STOT SE 3, H335                           |

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. Call a poison center or a doctor if you feel unwell.   |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing. If symptoms persist, call a physician. Call a poison center or a doctor if you feel unwell.  |
| 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. Wash skin with plenty of water.  |
| 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. Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention.   |
| 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. Call a poison center or a doctor if you feel unwell. |

#### 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   | : If there is a fire close by, use suitable extinguishing agents. carbon dioxide (CO2), powder, alcohol-resistant foam, water spray. Water spray. Dry powder. Foam. Carbon dioxide. |
| Unsuitable extinguishing media | : Do not use water jet.   |

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

|             |   |
|-------------|---|
| Fire hazard | : This product is flammable. In case of fire and/or explosion do not breathe fumes. |
|-------------|---|

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|  |   |
|--|---|
| Explosion hazard                                 | : No direct explosion hazard.   |
| Hazardous decomposition products in case of fire | : Under normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products may be released during prolonged heating like smokes, carbon monoxide and dioxide. Sulphur oxides. Sulphur dioxide. Ammonia solution. |

### 5.3. Advice for firefighters

|                                |   |
|--------------------------------|---|
| Firefighting instructions      | : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment. Do not enter fire area without proper protective equipment, including respiratory protection. |
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.  |
| Other information              | : Provision to contain effluent from fire extinguishing. 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 | : Do not handle until all safety precautions have been read and understood. Evacuate personnel to a safe area. Ensure adequate air ventilation. Spilled material may present a slipping hazard. Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage. |
|------------------|---|

#### 6.1.1. For non-emergency personnel

|                      |   |
|----------------------|---|
| Protective equipment | : Wear personal protective equipment.   |
| Emergency procedures | : Ventilate spillage area. Avoid contact with skin and eyes. Do not touch or walk on the spilled product. Avoid breathing dust/fume/gas/mist/vapours/spray. |

#### 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". |
| Emergency procedures | : Evacuate unnecessary personnel. Stop leak if safe to do so.   |

### 6.2. Environmental precautions

Avoid release to the environment. Do not flush into surface water or sewer system. Notify authorities if product enters sewers or public waters.

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

|                         |  |
|-------------------------|--|
| For containment         | : Cover spill with non combustible material, e.g.: sand, earth, vermiculite. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible. |
| Methods for cleaning up | : Mechanically recover the product. Take up liquid spill into absorbent material. 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

|                                   |   |
|-----------------------------------|---|
| Additional hazards when processed | : Not expected to present a significant hazard under anticipated conditions of normal use.  |
| 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. Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapours/spray. |

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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.

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

Technical measures : Keep only in the original container. Store in a well-ventilated place. Keep container tightly closed. Containers which are opened should be properly resealed and kept upright to prevent leakage.

Storage conditions : Keep in a well-ventilated room. Store tightly closed in a dry and cool place. Keep out of direct sunlight. Keep container closed when not in use. Keep container tightly closed. Store locked up. Store in a well-ventilated place.

Incompatible products : Strong acids and oxidants.

Heat and ignition sources : Keep away from ignition sources (including static discharges). Store away from heat.

Packaging materials : Store always product in container of same material as original container.

### 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

| Ammonium Bisulphite (concentrated aqueous solution) (10192-30-0) |             |
|--|-------------|
| France - Occupational Exposure Limits                            |             |
| VLE (OEL C/STEL)   | ≈ 5 ppm SO2 |
| USA - ACGIH - Occupational Exposure Limits                       |             |
| ACGIH OEL STEL   | ≈ 5 ppm SO2 |

#### 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

| BISULFITE NH4 100, 150, 200, 400 (10192-30-0) |                        |
|---|------------------------|
| DNEL/DMEL (Workers)                           |                        |
| Long-term - systemic effects, inhalation      | 234 mg/m³              |
| DNEL/DMEL (General population)                |                        |
| Acute - systemic effects, oral                | 0.901 mg/kg bodyweight |
| Long-term - systemic effects,oral             | 9 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation      | 69 mg/m³               |
| PNEC (Water)                                  |                        |
| PNEC aqua (freshwater)                        | 1.04 mg/l              |
| PNEC aqua (marine water)                      | 0.1 mg/l               |
| PNEC (STP)                                    |                        |
| PNEC sewage treatment plant                   | 78.6 mg/l              |

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### 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):**



#### 8.2.2.1. Eye and face protection

**Eye protection:**

Wear eye or face protection. Safety glasses with side shields. Safety glasses

| Eye protection |                      |                   |          |
|----------------|----------------------|-------------------|----------|
| 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

| Skin and body protection               |          |
|--|----------|
| Type                                   | Standard |
| Chemically resistant protective gloves | EN 374   |

**Hand protection:**

Please follow the instructions related to the permeability and the penetration time provided by the manufacturer. Gloves must be replaced after each use and whenever signs of wear or perforation appear. Protective gloves. ISO 374-1. Wash hands immediately after handling the product

| Hand protection                        |                         |                   |                |             |            |
|--|-------------------------|-------------------|----------------|-------------|------------|
| 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

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### 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.

#### 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  | : light yellow.       |
| Odour   | : characteristic.     |
| Odour threshold                                 | : Not available       |
| Melting point                                   | : > 100 °C            |
| Freezing point                                  | : Not available       |
| Boiling point                                   | : ≈ 105 °C            |
| Flammability                                    | : Non flammable.      |
| Explosive limits                                | : Not available       |
| Lower explosion limit                           | : Not available       |
| Upper explosion limit                           | : Not available       |
| Flash point                                     | : Not available       |
| Auto-ignition temperature                       | : Not available       |
| Decomposition temperature                       | : Not available       |
| pH  | : 4.5 – 6.5 20°C      |
| Viscosity, kinematic                            | : Not available       |
| Solubility                                      | : Soluble in water.   |
| Partition coefficient n-octanol/water (Log Kow) | : Not available       |
| Vapour pressure                                 | : > 2.3 kPa           |
| Vapour pressure at 50°C                         | : Not available       |
| Density   | : 1.3 – 1.4 kg/l 20°C |
| Relative density                                | : Not available       |
| 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

#### 9.2.2. Other safety characteristics

No additional information available

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### 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. Contact with acids liberates toxic gas.

#### 10.4. Conditions to avoid

Heat. flames or sparks.

#### 10.5. Incompatible materials

Oxidizing agent. Acids. Acids.

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition generates : 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 (Based on available data, the classification criteria are not met) (Based on available data, the classification criteria are not met) |
| Acute toxicity (dermal)     | : Not classified (Based on available data, the classification criteria are not met) (Based on available data, the classification criteria are not met) |
| Acute toxicity (inhalation) | : Not classified (Based on available data, the classification criteria are not met) (Based on available data, the classification criteria are not met) |

| BISULFITE NH4 100, 150, 200, 400 (10192-30-0)                    |  |
|--|--|
| LD50 dermal rat  | > 2000 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 402 (Acute Dermal Toxicity) |
| LC50 Inhalation - Rat  | > 5.5 mg/l air Animal: rat, Animal sex: male, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)      |
| Ammonium Bisulphite (concentrated aqueous solution) (10192-30-0) |  |
| LD50 dermal rat  | > 2000 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 402 (Acute Dermal Toxicity) |
| LC50 Inhalation - Rat  | > 5.5 mg/l air Animal: rat, Animal sex: male, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)      |

|                                   |  |
|-----------------------------------|--|
| Skin corrosion/irritation         | : Slightly irritant but not relevant for classification (Based on available data, the classification criteria are not met)<br>pH: 4.5 – 6.5 20°C               |
| Serious eye damage/irritation     | : Severe eye irritation<br>pH: 4.5 – 6.5 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 (Based on available data, the classification criteria are not met) |
| Germ cell mutagenicity            | : Not classified (Based on available data, the classification criteria are not met) (Based on available data, the classification criteria are not met)         |
| Carcinogenicity                   | : Not classified (Based on available data, the classification criteria are not met) (Based on available data, the classification criteria are not met)         |

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|   |  |
|---|--|
| Reproductive toxicity   | : Not classified (Based on available data, the classification criteria are not met) (Based on available data, the classification criteria are not met) |
| STOT-single exposure  | : May cause respiratory irritation.  |
| <b>Ammonium Bisulphite (concentrated aqueous solution) (10192-30-0)</b> |  |
| STOT-single exposure  | May cause respiratory irritation.  |
| STOT-repeated exposure  | : Not classified (Based on available data, the classification criteria are not met) (Based on available data, the classification criteria are not met) |
| Aspiration hazard   | : Not classified (Based on available data, the classification criteria are not met) (Based on available data, the classification criteria are not met) |

### 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 (Based on available data, the classification criteria are not met) (Based on available data, the classification criteria are not met) |
| Hazardous to the aquatic environment, long-term (chronic) | : Not classified (Based on available data, the classification criteria are not met) (Based on available data, the classification criteria are not met) |
| <b>BISULFITE NH4 100, 150, 200, 400 (10192-30-0)</b>      |  |
| LC50 - Fish [1]   | 464 – 1000 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)   |
| EC50 - Crustacea [1]                                      | 89 mg/l Test organisms (species): Daphnia magna  |
| EC50 72h - Algae [1]                                      | 43.8 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)   |
| 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>Ammonium Bisulphite (concentrated aqueous solution) (10192-30-0)</b> |  |
| LC50 - Fish [1]   | 464 – 1000 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)             |
| EC50 - Crustacea [1]  | 89 mg/l Test organisms (species): Daphnia magna  |
| EC50 72h - Algae [1]  | 43.8 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) |
| 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' |

### 12.2. Persistence and degradability

|   |  |
|---|--|
| <b>Ammonium Bisulphite (concentrated aqueous solution) (10192-30-0)</b> |  |
| Persistence and degradability   | May be harmful to aquatic organisms, to flora, to soil organisms. Product has only a limited biodegradability in soil and water. |

### 12.3. Bioaccumulative potential

No additional information available

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### 12.4. Mobility in soil

No additional information available

### 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

|  |  |
|--|--|
| Regional waste regulation                  | : Disposal must be done according to official regulations.   |
| 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. Disposal must be done according to official regulations.  |
| 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. Disposal must be done according to official regulations. |
| Additional information                     | : Do not re-use empty containers.  |

## 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)

|                                   |                 |
|-----------------------------------|-----------------|
| <b>ADR</b>                        |                 |
| Transport hazard class(es) (ADR)  | : Not regulated |
| <b>IMDG</b>                       |                 |
| Transport hazard class(es) (IMDG) | : Not regulated |
| <b>IATA</b>                       |                 |
| Transport hazard class(es) (IATA) | : Not regulated |

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**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

**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**

| EU restriction list (REACH Annex XVII) |  |
|--|--|
| Reference code                         | Applicable on  |
| 3(b)                                   | BISULFITE NH4 100, 150, 200, 400 ; Ammonium Bisulphite (concentrated aqueous solution) |

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)  
Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

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### 15.1.2. National regulations

#### Germany

- Water hazard class (WGK) : Not classified according to Regulation Governing Systems for Handling Substances Hazardous to Waters (AwSV)
- Hazardous Incident Ordinance (12. BImSchV) : Is not subject of 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 : None of the components are listed
- SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : None of the components are listed
- SZW-lijst van reprotoxische stoffen – Ontwikkeling : None of the components are listed

#### 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

## SECTION 16: Other information

### Indication of changes:

Revision - See : \*.

| Indication of changes |  |          |          |
|-----------------------|--|----------|----------|
| Section               | Changed item                                     | Change   | Comments |
| 1.1                   | UFI  | Added    |          |
| 5.1                   | Suitable extinguishing media                     | Modified |          |
| 5.2                   | Fire hazard                                      | Added    |          |
| 5.2                   | Hazardous decomposition products in case of fire | Modified |          |
| 5.3                   | Other information                                | Modified |          |
| 6.1                   | General measures                                 | Modified |          |
| 6.1                   | Emergency procedures                             | Modified |          |
| 6.2                   | Environmental precautions                        | Modified |          |
| 6.3                   | Methods for cleaning up                          | Modified |          |
| 7.2                   | Technical measures                               | Modified |          |
| 7.2                   | Storage conditions                               | Modified |          |
| 8.2                   | Appropriate engineering controls                 | Modified |          |
| 8.2                   | Eye protection                                   | Modified |          |
| 8.2                   | Hand protection                                  | Modified |          |
| 10                    | Hazardous decomposition products                 | Modified |          |
| 11.1                  | Reason for no classification                     | Added    |          |
| 12.                   | Reason for no classification                     | Added    |          |

| Abbreviations and acronyms: |   |
|-----------------------------|---|
| ADN                         | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR                         | European Agreement concerning the International Carriage of Dangerous Goods by Road             |

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| Abbreviations and acronyms: |  |
|-----------------------------|--|
| ATE                         | Acute Toxicity Estimate  |
| BCF                         | Bioconcentration factor  |
| BLV                         | Biological limit value   |
| BOD                         | Biochemical oxygen demand (BOD)  |
| COD                         | Chemical oxygen demand (COD)   |
| DMEL                        | Derived Minimal Effect level   |
| DNEL                        | Derived-No Effect Level  |
| EC-No.                      | European Community number  |
| EC50                        | Median effective concentration   |
| EN                          | European Standard  |
| IARC                        | International Agency for Research on Cancer                                  |
| IATA                        | International Air Transport Association                                      |
| IMDG                        | International Maritime Dangerous Goods                                       |
| LC50                        | Median lethal concentration  |
| LD50                        | Median lethal dose   |
| LOAEL                       | Lowest Observed Adverse Effect Level   |
| NOAEC                       | No-Observed Adverse Effect Concentration                                     |
| NOAEL                       | No-Observed Adverse Effect Level   |
| NOEC                        | No-Observed Effect Concentration   |
| OECD                        | Organisation for Economic Co-operation and Development                       |
| OEL                         | Occupational Exposure Limit  |
| PBT                         | Persistent Bioaccumulative Toxic   |
| PNEC                        | Predicted No-Effect Concentration  |
| RID                         | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS                         | Safety Data Sheet  |
| STP                         | Sewage treatment plant   |
| ThOD                        | Theoretical oxygen demand (ThOD)   |
| TLM                         | Median Tolerance Limit   |
| VOC                         | Volatile Organic Compounds   |
| CAS-No.                     | Chemical Abstract Service number   |
| N.O.S.                      | Not Otherwise Specified  |
| vPvB                        | Very Persistent and Very Bioaccumulative                                     |
| ED                          | Endocrine disrupting properties  |

| Full text of H- and EUH-statements: |   |
|-------------------------------------|---|
| EUH031                              | Contact with acids liberates toxic gas.       |
| Eye Irrit. 2                        | Serious eye damage/eye irritation, Category 2 |
| H319                                | Causes serious eye irritation.                |

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| Full text of H- and EUH-statements: |  |
|-------------------------------------|--|
| H335                                | May cause respiratory irritation.  |
| STOT SE 3                           | Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation |

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.