



**Main symptoms** Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause redness and pain.

## 2.2. Label elements

### Label according to Regulation (EC) No. 1272/2008 as amended

**Contains:** Sodium disulphite

**Hazard pictograms**



**Signal word** Danger

**Hazard statements**  
H302 - Harmful if swallowed.  
H315 - Causes skin irritation.  
H318 - Causes serious eye damage.

### Precautionary statements

**Prevention**  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P264 - Wash thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.

**Response**  
P301 + P312 - IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell.  
P330 - Rinse mouth.  
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.  
P332 + P313 - If skin irritation occurs: Get medical advice/attention.  
P362 - Take off contaminated clothing and wash before reuse.  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 - Immediately call a POISON CENTRE or doctor/physician.

**Storage** Store away from incompatible materials.

**Disposal** P501 - Dispose of contents/container in accordance with local/regional/national/international regulations.

**Supplemental label information** The kit consists of reagents with the following hazard classification:

Reagent 1:  
Serious eye damage/eye irritation - Category 2 - H319 - Causes serious eye irritation.  
Skin corrosion/irritation - Category 2 - H315 - Causes skin irritation.

Reagent 2:  
Acute toxicity, oral - Category 4 - H302 - Harmful if swallowed.  
Serious eye damage/eye irritation - Category 1 - H318 - Causes serious eye damage.  
EUH031 - Contact with acids liberates toxic gas.

Elution solution:  
Serious eye damage/eye irritation - Category 2 - H319 - Causes serious eye irritation.  
Skin corrosion/irritation - Category 2 - H315 - Causes skin irritation.

**2.3. Other hazards** None known.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### General information

| Chemical name          | %  | CAS-No. / EC No.       | REACH Registration No. | INDEX No.    | Notes |
|------------------------|--|------------------------|------------------------|--------------|-------|
| Sodium disulphite      | <100   | 7681-57-4<br>231-673-0 | -                      | 016-063-00-2 |       |
| <b>Classification:</b> | <b>DSD:</b> Xn;R22, Xi;R41, R31                |                        |                        |              |       |
|                        | <b>CLP:</b> Acute Tox. 4;H302, Eye Dam. 1;H318 |                        |                        |              |       |
| Sodium hydroxide       | 1 - <2   | 1310-73-2<br>215-185-5 | -                      | 011-002-00-6 |       |
| <b>Classification:</b> | <b>DSD:</b> C;R35                              |                        |                        |              |       |
|                        | <b>CLP:</b> Skin Corr. 1A;H314                 |                        |                        |              |       |

CLP: Regulation No. 1272/2008.  
DSD: Directive 67/548/EEC.

## SECTION 4: First aid measures

|  |   |
|--|---|
| <b>General information</b>   | In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.  |
| <b>4.1. Description of first aid measures</b>  |   |
| <b>Inhalation</b>  | Move to fresh air. Call a physician if symptoms develop or persist.   |
| <b>Skin contact</b>  | Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.  |
| <b>Eye contact</b>   | Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.   |
| <b>Ingestion</b>   | Rinse mouth. If swallowed, seek medical advice immediately and show this container or label. Never give anything by mouth to a victim who is unconscious or is having convulsions. Do not induce vomiting without advice from poison control centre. Do not use mouth-to-mouth method if victim ingested the substance. |
| <b>4.2. Most important symptoms and effects, both acute and delayed</b>                | Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain.  |
| <b>4.3. Indication of any immediate medical attention and special treatment needed</b> | Provide general supportive measures and treat symptomatically. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.   |

## SECTION 5: Firefighting measures

|   |   |
|---|---|
| <b>General fire hazards</b>                                       | No unusual fire or explosion hazards noted.   |
| <b>5.1. Extinguishing media</b>                                   |   |
| <b>Suitable extinguishing media</b>                               | Water fog. Foam. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ).                      |
| <b>Unsuitable extinguishing media</b>                             | Do not use water jet as an extinguisher, as this will spread the fire.                        |
| <b>5.2. Special hazards arising from the substance or mixture</b> | During fire, gases hazardous to health may be formed.   |
| <b>5.3. Advice for firefighters</b>                               |   |
| <b>Special protective equipment for firefighters</b>              | Self-contained breathing apparatus and full protective clothing must be worn in case of fire. |
| <b>Special fire fighting procedures</b>                           | Move containers from fire area if you can do so without risk.                                 |

## SECTION 6: Accidental release measures

|   |  |
|---|--|
| <b>6.1. Personal precautions, protective equipment and emergency procedures</b> |  |
| <b>For non-emergency personnel</b>  | Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Do not breathe vapour. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. |
| <b>For emergency responders</b>   | Keep unnecessary personnel away. Use personal protection recommended in section 8 of the SDS.  |
| <b>6.2. Environmental precautions</b>   | Avoid discharge into drains, water courses or onto the ground.   |
| <b>6.3. Methods and material for containment and cleaning up</b>                | Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.<br><br>Never return spills to original containers for re-use.   |
| <b>6.4. Reference to other sections</b>   | For personal protection, see section 8. For waste disposal, see section 13.  |

## SECTION 7: Handling and storage

|   |  |
|---|--|
| <b>7.1. Precautions for safe handling</b> | Do not breathe vapour. Do not get this material in contact with eyes. Do not taste or swallow. Avoid contact with skin. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Observe good laboratory hygiene practices. |
|---|--|

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

Store in original tightly closed container. Store away from incompatible materials (see section 10 of the SDS).

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

For laboratory use.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Occupational exposure limits****UK. EH40 Workplace Exposure Limits (WELs)**

| Components                        | Type | Value               |
|-----------------------------------|------|---------------------|
| Sodium disulphite (CAS 7681-57-4) | TWA  | 5 mg/m <sup>3</sup> |
| Sodium hydroxide (CAS 1310-73-2)  | STEL | 2 mg/m <sup>3</sup> |

**Biological limit values**

No biological exposure limits noted for the ingredient(s).

**Recommended monitoring procedures**

Follow standard monitoring procedures.

**Derived no-effect level (DNEL)**

Not available.

**Predicted no effect concentrations (PNECs)**

Not available.

**8.2. Exposure controls****Appropriate engineering controls**

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

**Individual protection measures, such as personal protective equipment****General information**

Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

**Eye/face protection**

Risk of splashes: Wear approved chemical safety goggles.

**Skin protection****- Hand protection**

Risk of contact: Wear appropriate chemical resistant gloves.

**- Other**

Wear appropriate chemical resistant clothing.

**Respiratory protection**

In case of insufficient ventilation, wear suitable respiratory equipment.

**Thermal hazards**

Wear appropriate thermal protective clothing, when necessary.

**Hygiene measures**

When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

**Environmental exposure controls**

Environmental manager must be informed of all major releases.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties****Appearance****Physical state**

Liquid.

**Form**

Liquid.

**Colour**

Colourless.

**Odour**

Odourless.

**Odour threshold**

Not available.

**pH**

12 - 14

**Melting point/freezing point**

Not applicable.

**Initial boiling point and boiling range**

Not applicable.

**Flash point**

Not applicable.

**Evaporation rate**

Not applicable.

**Flammability (solid, gas)**

Not applicable.

### Upper/lower flammability or explosive limits

Flammability limit - lower (%) Not applicable.

Flammability limit - upper (%) Not applicable.

Vapour pressure Not applicable.

Vapour density Not applicable.

Relative density Not applicable.

Solubility(ies) Not applicable.

Partition coefficient (n-octanol/water) No data available.

Auto-ignition temperature Not applicable.

Decomposition temperature Not applicable.

Viscosity Not applicable.

Explosive properties Not available.

Oxidizing properties Not available.

### 9.2. Other information

Bulk density Not applicable.

VOC (Weight %) Not applicable.

## SECTION 10: Stability and reactivity

10.1. Reactivity Strong acids.

10.2. Chemical stability Material is stable under normal conditions.

10.3. Possibility of hazardous reactions No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid Reacts violently with strong acids. This product may react with oxidizing agents. Contact with incompatible materials.

10.5. Incompatible materials Acids. Oxidizing agents.

10.6. Hazardous decomposition products Sulphur oxides. Hydrogen sulfide.

## SECTION 11: Toxicological information

General information Occupational exposure to the substance or mixture may cause adverse effects.

### Information on likely routes of exposure

Ingestion Harmful if swallowed.

Inhalation Prolonged inhalation may be harmful.

Skin contact Causes skin irritation.

Eye contact Causes serious eye damage.

Symptoms Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain.

### 11.1. Information on toxicological effects

Acute toxicity Harmful if swallowed.

| Components | Species | Test results |
|------------|---------|--------------|
|------------|---------|--------------|

Sodium disulphite (CAS 7681-57-4)

Acute

Other

LD50

Rat

115 mg/kg

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye irritation Causes serious eye damage.

Respiratory sensitisation Repeated or prolonged inhalation exposure may cause asthma-like syndrome.

Skin sensitisation This product is not expected to cause skin sensitisation.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity Not classifiable as to carcinogenicity to humans.

## IARC Monographs. Overall Evaluation of Carcinogenicity

Sodium disulphite (CAS 7681-57-4)

3 Not classifiable as to carcinogenicity to humans.

|   |  |
|---|--|
| <b>Reproductive toxicity</b>                              | This product is not expected to cause reproductive or developmental effects. |
| <b>Specific target organ toxicity - single exposure</b>   | No data available.   |
| <b>Specific target organ toxicity - repeated exposure</b> | No data available.   |
| <b>Aspiration hazard</b>                                  | Not classified.  |
| <b>Mixture versus substance information</b>               | Not available.   |
| <b>Other information</b>                                  | None known.  |

## SECTION 12: Ecological information

**12.1. Toxicity** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

| Components                       | Species | Test results   |
|----------------------------------|---------|--|
| Sodium hydroxide (CAS 1310-73-2) |         |  |
| <b>Aquatic</b>                   |         |  |
| Crustacea                        | EC50    | Water flea (Ceriodaphnia dubia) 34.59 - 47.13 mg/l, 48 hours |
| Fish                             | LC50    | Bluegill (Lepomis macrochirus) 99 mg/l, 48 hours             |
|                                  |         | Western mosquitofish (Gambusia affinis) 125 mg/l, 96 hours   |

**12.2. Persistence and degradability** No data is available on the degradability of this product.

**12.3. Bioaccumulative potential** No data available.

**Partition coefficient n-octanol/water (log Kow)** No data available.

**Bioconcentration factor (BCF)** Not available.

**12.4. Mobility in soil** No data available.

**12.5. Results of PBT and vPvB assessment** Not a PBT or vPvB substance or mixture.

**12.6. Other adverse effects** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

|                                     |  |
|-------------------------------------|--|
| <b>Residual waste</b>               | Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).   |
| <b>Contaminated packaging</b>       | Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.   |
| <b>EU waste code</b>                | 16 05 06*<br>The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.  |
| <b>Disposal methods/information</b> | Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations. |
| <b>Special precautions</b>          | Dispose in accordance with all applicable regulations.   |

## SECTION 14: Transport information

**ADR**  
Not regulated as dangerous goods.

**RID**  
Not regulated as dangerous goods.

**ADN**  
Not regulated as dangerous goods.

## IATA

Not regulated as dangerous goods.

## IMDG

Not regulated as dangerous goods.

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.

## SECTION 15: Regulatory information

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

#### EU regulations

**Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I**

Not listed.

**Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II**

Not listed.

**Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended**

Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended**

Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended**

Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended**

Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V as amended**

Not listed.

**Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry**

Not listed.

**Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA**

Not listed.

#### Authorisations

**Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended**

Not listed.

#### Restrictions on use

**Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended**

Not listed.

**Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work**

Not listed.

**Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding**

Not listed.

#### Other EU regulations

**Directive 96/82/EC (Seveso II) on the control of major-accident hazards involving dangerous substances**

Not listed.

**Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work**

Sodium disulphite (CAS 7681-57-4)

Sodium hydroxide (CAS 1310-73-2)

**Directive 94/33/EC on the protection of young people at work**

Sodium hydroxide (CAS 1310-73-2)

#### Other regulations

The product is classified and labelled in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.

#### National regulations

Young people under 18 years old are not allowed to work with this product according to the EU Directive 94/33/EC on the protection of young people at work. Follow national regulation for work with chemical agents.

#### 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

## SECTION 16: Other information

### List of abbreviations

LD50: Lethal Dose, 50%.  
LC50: Lethal Concentration, 50%.  
EC50: Effective concentration, 50%.  
CLP: Regulation No. 1272/2008.  
DSD: Directive 67/548/EEC.

### References

Not available.

### Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

### Full text of any statements or R-phrases and H-statements under Sections 2 to 15

R22 Harmful if swallowed.  
R31 Contact with acids liberates toxic gas.  
R35 Causes severe burns.  
R38 Irritating to skin.  
R41 Risk of serious damage to eyes.  
H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H318 Causes serious eye damage.

### Training information

Follow training instructions when handling this material.

### Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available.