

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

**1.1 Product identifier**

**Product name** : ABX Cleaner 0.5L / ABX Cleaner 1L  
**Product code** : 0903011 / 0903010  
**SAP Code** : 1210903011 / 1210903010  
**Product description** : 0.5 L / 1 L  
**Product type** : Liquid.  
**Other means of identification** : Not available.

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

**Identified uses**

ABX Cleaner is an enzymatic solution intended for *in vitro* diagnostic use with proteolytic action for the cleaning of HORIBA blood cell counters.

**Uses advised against**

Not applicable.

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

HORIBA ABX SAS  
Parc Euromédecine  
Rue du Caducée  
BP 7290  
34184 Montpellier Cedex 4  
FRANCE  
Tel: +33 (0) 4 67 14 15 16  
Fax: +33 (0) 4 67 14 15 17

**e-mail address of person responsible for this SDS** : documentation.med@horiba.com

**National contact**

HORIBA UK Ltd  
Kyoto Close  
Northampton  
NN3 6FL  
Tel: +44 (0) 1604 542500  
e-mail: sds.huk@horiba.com

**1.4 Emergency telephone number**

**National advisory body/Poison Centre**

**Telephone number** : 0344 892 0111 (Healthcare Professionals)  
111 (Members of the public)

**Supplier**

**Telephone number** : + 800 67 14 15 16

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Product definition** : Mixture

#### Classification according to UK CLP/GHS

Skin Sens. 1A, H317

Aquatic Chronic 3, H412

The product is classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

### 2.2 Label elements

**Hazard pictograms** :



**Signal word** : Warning

**Hazard statements** : May cause an allergic skin reaction.  
Harmful to aquatic life with long lasting effects.

#### Precautionary statements

**Prevention** : Wear protective gloves, protective clothing and eye or face protection. Avoid breathing dust/fume/gas/mist/vapours/spray.

**Response** : IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.

**Storage** : Not applicable.

**Disposal** : Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Supplemental label elements** : Not applicable.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** : Not applicable.

#### Special packaging requirements

**Containers to be fitted with child-resistant fastenings** : Not applicable.

**Tactile warning of danger** : Not applicable.

### 2.3 Other hazards

**Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII** : This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**Other hazards which do not result in classification** : None known.

### SECTION 3: Composition/information on ingredients

**3.2 Mixtures** : Mixture

| Product/ingredient name        | Identifiers   | %     | Classification   | Type    |
|--------------------------------|---|-------|--|---------|
| sodium azide                   | EC: 247-852-1<br>CAS: 26628-22-8<br>Index: 011-004-00-7 | ≤0,25 | Acute Tox. 2, H300<br>Acute Tox. 1, H310<br>Acute Tox. 2, H330<br>STOT RE 2, H373<br>Aquatic Acute 1, H400 (M=1)<br>Aquatic Chronic 1, H410 (M=1)<br>EUH032  | [1] [2] |
| Hydrochloric acid              | EC: 231-595-7<br>CAS: 7647-01-0<br>Index: 017-002-01-X  | <0,1  | Met. Corr. 1, H290<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>STOT SE 3, H335   | [1] [2] |
| 3(2H)-Isothiazolone, 2-methyl- | EC: 220-239-6<br>CAS: 2682-20-4                         | ≤0,1  | Acute Tox. 3, H301<br>Acute Tox. 3, H311<br>Acute Tox. 1, H330<br>Skin Corr. 1, H314<br>Eye Dam. 1, H318<br>Skin Sens. 1, H317<br>Aquatic Acute 1, H400 (M=10)<br>Aquatic Chronic 1, H410 (M=1)<br>EUH071  | [1]     |
| Subtilisin                     | EC: 232-752-2<br>CAS: 9014-01-1<br>Index: 647-012-00-8  | ≤0,25 | Acute Tox. 4, H302<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>Resp. Sens. 1, H334<br>STOT SE 3, H335<br>Aquatic Acute 1, H400 (M=1)<br>Aquatic Chronic 2, H411  | [1] [2] |
| octhilinone (ISO)              | EC: 247-761-7<br>CAS: 26530-20-1<br>Index: 613-112-00-5 | ≤0,01 | Acute Tox. 3, H301<br>Acute Tox. 3, H311<br>Acute Tox. 2, H330<br>Skin Corr. 1, H314<br>Eye Dam. 1, H318<br>Skin Sens. 1A, H317<br>Aquatic Acute 1, H400 (M=100)<br>Aquatic Chronic 1, H410 (M=100)<br>EUH071<br><br><b>See Section 16 for the full text of the H statements declared above.</b> | [1]     |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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

#### Over-exposure signs/symptoms

- Eye contact** : No specific data.
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:  
irritation  
redness
- Ingestion** : No specific data.

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

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable extinguishing media** : None known.

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

## SECTION 5: Firefighting measures

**Hazards from the substance or mixture** : In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

**Hazardous combustion products** : No specific data.

### 5.3 Advice for firefighters

**Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## SECTION 6: Accidental release measures

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

**For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

**For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

### 6.2 Environmental precautions

: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

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

**Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

**Large spill** : Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

### 6.4 Reference to other sections

: See Section 1 for emergency contact information.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 7.1 Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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

Store between the following temperatures: 18 to 25°C (64,4 to 77°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### 7.3 Specific end use(s)

- Recommendations** : Not available.
- Industrial sector specific solutions** : Not available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

| Product/ingredient name | Exposure limit values  |
|-------------------------|--|
| sodium azide            | <b>EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin.</b><br>STEL: 0,3 mg/m <sup>3</sup> , (as NaN <sub>3</sub> ) 15 minutes.<br>TWA: 0,1 mg/m <sup>3</sup> , (as NaN <sub>3</sub> ) 8 hours.  |
| Hydrochloric acid       | <b>EH40/2005 WELs (United Kingdom (UK), 1/2020).</b><br>STEL: 8 mg/m <sup>3</sup> 15 minutes. Form: (gas and aerosol mists)<br>STEL: 5 ppm 15 minutes. Form: (gas and aerosol mists)<br>TWA: 2 mg/m <sup>3</sup> 8 hours. Form: (gas and aerosol mists)<br>TWA: 1 ppm 8 hours. Form: (gas and aerosol mists) |
| Subtilisin              | <b>EH40/2005 WELs (United Kingdom (UK), 1/2020). [subtilisins] Inhalation sensitiser.</b><br>TWA: 0,00004 mg/m <sup>3</sup> 8 hours.   |

#### Biological exposure indices

No exposure indices known.

- Recommended monitoring procedures** : Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### DNELs/DMELs

## SECTION 8: Exposure controls/personal protection

| Product/ingredient name | Type                           | Exposure              | Value                   | Population              | Effects            |
|-------------------------|--------------------------------|-----------------------|-------------------------|-------------------------|--------------------|
| sodium azide            | DNEL                           | Long term Oral        | 50 µg/kg bw/day         | General population      | Systemic           |
|                         | DNEL                           | Long term Dermal      | 50 µg/kg bw/day         | General population      | Systemic           |
|                         | DNEL                           | Long term Inhalation  | 87 µg/m <sup>3</sup>    | General population      | Systemic           |
|                         | DNEL                           | Long term Dermal      | 140 µg/kg bw/day        | Workers                 | Systemic           |
|                         | DNEL                           | Long term Inhalation  | 0,493 mg/m <sup>3</sup> | Workers                 | Systemic           |
| Hydrochloric acid       | DNEL                           | Long term Inhalation  | 8 mg/m <sup>3</sup>     | General population      | Local              |
|                         | DNEL                           | Long term Inhalation  | 8 mg/m <sup>3</sup>     | Workers                 | Local              |
|                         | DNEL                           | Short term Inhalation | 15 mg/m <sup>3</sup>    | General population      | Local              |
|                         | DNEL                           | Short term Inhalation | 15 mg/m <sup>3</sup>    | Workers                 | Local              |
|                         | 3(2H)-Isothiazolone, 2-methyl- | DNEL                  | Long term Inhalation    | 0,021 mg/m <sup>3</sup> | General population |
| DNEL                    |                                | Long term Inhalation  | 0,021 mg/m <sup>3</sup> | Workers                 | Local              |
| DNEL                    |                                | Long term Oral        | 0,027 mg/kg bw/day      | General population      | Systemic           |
| DNEL                    |                                | Short term Inhalation | 0,043 mg/m <sup>3</sup> | General population      | Local              |
| DNEL                    |                                | Short term Inhalation | 0,043 mg/m <sup>3</sup> | Workers                 | Local              |
| Subtilisin              | DNEL                           | Short term Oral       | 0,053 mg/kg bw/day      | General population      | Systemic           |
|                         | DMEL                           | Long term Inhalation  | 15 ng/m <sup>3</sup>    | General population      | Local              |
|                         | DMEL                           | Long term Inhalation  | 60 ng/m <sup>3</sup>    | Workers                 | Local              |
|                         | DNEL                           | Long term Oral        | 2,86 mg/kg bw/day       | General population      | Systemic           |
|                         | DNEL                           | Short term Oral       | 17,28 mg/kg bw/day      | General population      | Systemic           |

### PNECs

No PNECs available

### 8.2 Exposure controls

**Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

#### Individual protection measures

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields. Recommended: Tightly sealed goggles according to EN 166

## SECTION 8: Exposure controls/personal protection

### Skin protection

- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. > 8 hours (breakthrough time): Protective gloves according to EN 374
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Recommended: Combination filtering device according to EN 14387
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### 9.1 Information on basic physical and chemical properties

#### Appearance

- Physical state** : Liquid.
- Colour** : Colourless.
- Odour** : Detergent.
- Odour threshold** : Not available.
- Melting point/freezing point** : Not available.
- Initial boiling point and boiling range** : Not available.
- Flammability** : Non-flammable.
- Upper/lower flammability or explosive limits** : Not available.
- Flash point** : Not applicable.
- Auto-ignition temperature** : Not applicable.
- Decomposition temperature** : Not available.
- pH** : 7,5 to 8,5
- Viscosity** : Not available.
- Solubility in water** : Not available.
- Miscible with water** : Yes.
- Partition coefficient: n-octanol/ water** : Not applicable.
- Vapour pressure** : Not available.
- Relative density** : Not available.
- Vapour density** : Not available.

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## SECTION 9: Physical and chemical properties

- Explosive properties** : Not available.  
**Oxidising properties** : Not available.  
**Particle characteristics**  
**Median particle size** : Not applicable.

## SECTION 10: Stability and reactivity

- 10.1 Reactivity** : No specific test data related to reactivity available for this product or its ingredients.  
**10.2 Chemical stability** : The product is stable.  
**10.3 Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.  
**10.4 Conditions to avoid** : No specific data.  
**10.5 Incompatible materials** : No specific data.  
**Other information** : Reactive or incompatible with the following materials: metals.  
 Lead and copper  
**10.6 Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

| Product/ingredient name | Result               | Species | Dose       | Exposure |
|-------------------------|----------------------|---------|------------|----------|
| sodium azide            | LD50 Oral            | Rat     | 27 mg/kg   | -        |
| Hydrochloric acid       | LC50 Inhalation Gas. | Rat     | 3124 ppm   | 1 hours  |
| Subtilisin              | LD50 Oral            | Rat     | 3700 mg/kg | -        |
| octhilinone (ISO)       | LD50 Dermal          | Rabbit  | 690 mg/kg  | -        |
|                         | LD50 Oral            | Rat     | 550 mg/kg  | -        |

**Conclusion/Summary** : Not available.

#### Acute toxicity estimates

| Product/ingredient name        | Oral (mg/kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapours) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|--------------------------------|--------------|----------------|--------------------------|-----------------------------|-------------------------------------|
| sodium azide                   | 27           | 20             | N/A                      | N/A                         | 0,054                               |
| 3(2H)-Isothiazolone, 2-methyl- | 120          | 242            | N/A                      | 0,1                         | N/A                                 |
| Subtilisin                     | 1728         | N/A            | N/A                      | N/A                         | N/A                                 |
| octhilinone (ISO)              | 125          | 311            | N/A                      | N/A                         | 0,27                                |

#### Irritation/Corrosion

| Product/ingredient name | Result                   | Species | Score | Exposure     | Observation |
|-------------------------|--------------------------|---------|-------|--------------|-------------|
| Hydrochloric acid       | Eyes - Mild irritant     | Rabbit  | -     | 0,5 minutes  | -           |
|                         | Skin - Mild irritant     | Human   | -     | 5 mg         | -           |
| Subtilisin              | Eyes - Moderate irritant | Rabbit  | -     | 24 hours 4 % | -           |
| octhilinone (ISO)       | Eyes - Severe irritant   | Rabbit  | -     | 3 mg         | -           |
|                         |                          |         | -     | 100 mg       | -           |

**Conclusion/Summary** : Not available.

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## SECTION 11: Toxicological information

### Sensitisation

**Conclusion/Summary** : Not available.

### Mutagenicity

**Conclusion/Summary** : Not available.

### Carcinogenicity

**Conclusion/Summary** : Not available.

### Reproductive toxicity

**Conclusion/Summary** : Not available.

### Teratogenicity

**Conclusion/Summary** : Not available.

### Specific target organ toxicity (single exposure)

| Product/ingredient name | Category   | Route of exposure | Target organs                |
|-------------------------|------------|-------------------|------------------------------|
| Hydrochloric acid       | Category 3 | -                 | Respiratory tract irritation |
| Subtilisin              | Category 3 | -                 | Respiratory tract irritation |

### Specific target organ toxicity (repeated exposure)

| Product/ingredient name | Category   | Route of exposure | Target organs |
|-------------------------|------------|-------------------|---------------|
| sodium azide            | Category 2 | -                 | -             |

### Aspiration hazard

Not available.

**Information on likely routes of exposure** : Not available.

### Potential acute health effects

**Eye contact** : No known significant effects or critical hazards.

**Inhalation** : No known significant effects or critical hazards.

**Skin contact** : May cause an allergic skin reaction.

**Ingestion** : No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : No specific data.

**Inhalation** : No specific data.

**Skin contact** : Adverse symptoms may include the following:  
irritation  
redness

**Ingestion** : No specific data.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

#### Short term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### Long term exposure

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**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

### Potential chronic health effects

Not available.

**Conclusion/Summary** : Not available.

**General** : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

**Carcinogenicity** : No known significant effects or critical hazards.

**Mutagenicity** : No known significant effects or critical hazards.

**Reproductive toxicity** : No known significant effects or critical hazards.

**Other information** : Ingestion may cause nausea, diarrhea and vomiting.

## SECTION 12: Ecological information

### 12.1 Toxicity

| Product/ingredient name        | Result                              | Species   | Exposure |
|--------------------------------|-------------------------------------|---|----------|
| sodium azide                   | Acute EC50 9200 µg/l Marine water   | Algae - Giant kelp - Macrocystis pyrifera                   | 96 hours |
|                                | Acute EC50 6,4 mg/l Fresh water     | Crustaceans - Water flea - Simocephalus serrulatus - Larvae | 48 hours |
|                                | Acute EC50 4,2 mg/l Fresh water     | Daphnia - Water flea - Daphnia pulex - Larvae               | 48 hours |
|                                | Acute LC50 0,68 mg/l Fresh water    | Fish - Bluegill - Lepomis macrochirus                       | 96 hours |
|                                | Chronic NOEC 5600 µg/l Marine water | Algae - Giant kelp - Macrocystis pyrifera                   | 96 hours |
| Hydrochloric acid              | Acute LC50 240000 µg/l Marine water | Crustaceans - Green crab - Carcinus maenas - Adult          | 48 hours |
|                                | Acute LC50 282 ppm Fresh water      | Fish - Western mosquitofish - Gambusia affinis - Adult      | 96 hours |
| 3(2H)-Isothiazolone, 2-methyl- | Acute EC50 0,18 ppm Fresh water     | Daphnia - Water flea - Daphnia magna                        | 48 hours |
|                                | Acute LC50 0,07 ppm Fresh water     | Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss  | 96 hours |
| octhilnone (ISO)               | Acute EC50 107 ppb Fresh water      | Daphnia - Water flea - Daphnia magna                        | 48 hours |
|                                | Acute LC50 47 ppb Fresh water       | Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss  | 96 hours |
|                                | Chronic NOEC 74 ppb Fresh water     | Daphnia - Water flea - Daphnia magna                        | 21 days  |
|                                | Chronic NOEC 8,5 ppb                | Fish - Fathead minnow - Pimephales promelas                 | 35 days  |

**Conclusion/Summary** : Not available.

### 12.2 Persistence and degradability

**Conclusion/Summary** : Not available.

### 12.3 Bioaccumulative potential

| Product/ingredient name | LogP <sub>ow</sub> | BCF | Potential |
|-------------------------|--------------------|-----|-----------|
| Subtilisin              | -3,1               | -   | low       |
| octhilnone (ISO)        | 2,45               | -   | low       |

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## SECTION 12: Ecological information

### 12.4 Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

**Mobility** : Not available.

### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**12.6 Other adverse effects** : No known significant effects or critical hazards.

## SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 13.1 Waste treatment methods

#### Product

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

**Hazardous waste** : The classification of the product may meet the criteria for a hazardous waste.

#### Packaging

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**Special precautions** : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## SECTION 14: Transport information

|  | ADR/RID        | ADN            | IMDG           | IATA           |
|--|----------------|----------------|----------------|----------------|
| <b>14.1 UN number</b>                  | Not regulated. | Not regulated. | Not regulated. | Not regulated. |
| <b>14.2 UN proper shipping name</b>    | -              | -              | -              | -              |
| <b>14.3 Transport hazard class(es)</b> | -              | -              | -              | -              |
| <b>14.4 Packing group</b>              | -              | -              | -              | -              |
| <b>14.5 Environmental hazards</b>      | No.            | No.            | No.            | No.            |

## SECTION 14: Transport information

**14.6 Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**14.7 Transport in bulk according to IMO instruments** : Not available.

## SECTION 15: Regulatory information

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture UK (GB)/REACH**

### Annex XIV - List of substances subject to authorisation

#### Annex XIV

None of the components are listed.

#### Substances of very high concern

None of the components are listed.

#### Ozone depleting substances

Not listed.

#### Prior Informed Consent (PIC)

Not listed.

#### Persistent Organic Pollutants

Not listed.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** : Not applicable.

#### Seveso Directive

This product is not controlled under the Seveso Directive.

#### National regulations

#### EU regulations

**Industrial emissions (integrated pollution prevention and control) - Air** : Not listed

**Industrial emissions (integrated pollution prevention and control) - Water** : Not listed

#### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### Montreal Protocol

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

## SECTION 15: Regulatory information

### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

### Inventory list

|  |  |
|--|--|
| <b>Australia</b>                       | : All components are listed or exempted.   |
| <b>Canada</b>                          | : All components are listed or exempted.   |
| <b>China</b>                           | : All components are listed or exempted.   |
| <b>Eurasian Economic Union</b>         | : <b>Russian Federation inventory</b> : Not determined.  |
| <b>Japan</b>                           | : <b>Japan inventory (CSCL)</b> : Not determined.<br><b>Japan inventory (ISHL)</b> : Not determined. |
| <b>New Zealand</b>                     | : All components are listed or exempted.   |
| <b>Philippines</b>                     | : All components are listed or exempted.   |
| <b>Republic of Korea</b>               | : All components are listed or exempted.   |
| <b>Taiwan</b>                          | : Not determined.  |
| <b>Thailand</b>                        | : Not determined.  |
| <b>Turkey</b>                          | : Not determined.  |
| <b>United States</b>                   | : Not determined.  |
| <b>Viet Nam</b>                        | : Not determined.  |
| <b>15.2 Chemical safety assessment</b> | : Not applicable.  |

## SECTION 16: Other information

**Revision comments** Modification of section 2: classification and Modification of section 3: ingredient classification, Modification of section 8: Exposure controls/personal protection, Modification of section 10: incompatible materials, Modification of section 11: Toxicological information and Modification of section 12: Ecological information

✔ Indicates information that has changed from previously issued version.

**Abbreviations and acronyms**

- : ATE = Acute Toxicity Estimate
- GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019 No. 720 and amendments
- DMEL = Derived Minimal Effect Level
- DNEL = Derived No Effect Level
- EUH statement = GB CLP-specific Hazard statement
- N/A = Not available
- PBT = Persistent, Bioaccumulative and Toxic
- PNEC = Predicted No Effect Concentration
- RRN = REACH Registration Number
- SGG = Segregation Group
- vPvB = Very Persistent and Very Bioaccumulative

### Procedure used to derive the classification

| Classification          | Justification   |
|-------------------------|-----------------|
| Skin Sens. 1A, H317     | Expert judgment |
| Aquatic Chronic 3, H412 | Expert judgment |

### Full text of abbreviated H statements

## SECTION 16: Other information

|        |  |
|--------|--|
| H290   | May be corrosive to metals.  |
| H300   | Fatal if swallowed.  |
| H301   | Toxic if swallowed.  |
| H302   | Harmful if swallowed.  |
| H310   | Fatal in contact with skin.  |
| H311   | Toxic in contact with skin.  |
| H314   | Causes severe skin burns and eye damage.                                   |
| H315   | Causes skin irritation.  |
| H317   | May cause an allergic skin reaction.                                       |
| H318   | Causes serious eye damage.   |
| H330   | Fatal if inhaled.  |
| H334   | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H335   | May cause respiratory irritation.  |
| H373   | May cause damage to organs through prolonged or repeated exposure.         |
| H400   | Very toxic to aquatic life.  |
| H410   | Very toxic to aquatic life with long lasting effects.                      |
| H411   | Toxic to aquatic life with long lasting effects.                           |
| H412   | Harmful to aquatic life with long lasting effects.                         |
| EUH032 | Contact with acids liberates very toxic gas.                               |
| EUH071 | Corrosive to the respiratory tract.  |

### Full text of classifications

|                   |   |
|-------------------|---|
| Acute Tox. 1      | ACUTE TOXICITY - Category 1                                     |
| Acute Tox. 2      | ACUTE TOXICITY - Category 2                                     |
| Acute Tox. 3      | ACUTE TOXICITY - Category 3                                     |
| Acute Tox. 4      | ACUTE TOXICITY - Category 4                                     |
| Aquatic Acute 1   | SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1                  |
| Aquatic Chronic 1 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1                 |
| Aquatic Chronic 2 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2                 |
| Aquatic Chronic 3 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3                 |
| Eye Dam. 1        | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1                  |
| Met. Corr. 1      | CORROSIVE TO METALS - Category 1                                |
| Resp. Sens. 1     | RESPIRATORY SENSITISATION - Category 1                          |
| Skin Corr. 1      | SKIN CORROSION/IRRITATION - Category 1                          |
| Skin Corr. 1B     | SKIN CORROSION/IRRITATION - Category 1B                         |
| Skin Irrit. 2     | SKIN CORROSION/IRRITATION - Category 2                          |
| Skin Sens. 1      | SKIN SENSITISATION - Category 1                                 |
| Skin Sens. 1A     | SKIN SENSITISATION - Category 1A                                |
| STOT RE 2         | SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 |
| STOT SE 3         | SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3   |

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### Notice to reader

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Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.