

# SAFETY DATA SHEET

CASYclean



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

### 1.1 Product identifier

Product name : CASYclean  
 Product code : 5651768  
 Other means of identification : Not available.

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

Product use : Cleaning of the liquid system and measuring capillaries of CASY® Cell Counter and Analyzer Systems.  
 Restrictions on use: For professional use only.

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

OMNI Life Science GmbH & Co. KG  
 Karl-Ferdinand-Braun-Strasse 2  
 28359 Bremen  
 Germany  
 Tel.: +49 421-276 169 0 (Monday to Thursday 08:00 - 17:00, Friday 08:00 - 16:00)  
 e-mail address of person responsible for this SDS : info@ols-bio.de

### 1.4 Emergency telephone number

#### National advisory body/Poison Centre

Telephone number : NHS on 111

#### Supplier

Telephone number : +44-870-8200418 CCN823152

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Product definition : Mixture

#### Classification according to UK CLP/GHS

Met. Corr. 1, H290  
 Skin Corr. 1, H314  
 Eye Dam. 1, H318  
 Aquatic Chronic 3, H412

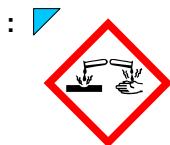
The product is classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

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 : Danger

Hazard statements : H290 - May be corrosive to metals.  
 H314 - Causes severe skin burns and eye damage.  
 H412 - Harmful to aquatic life with long lasting effects.

#### Precautionary statements

**SECTION 2: Hazards identification**

|                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Prevention</b>                                                                                                                         | :  P280 - Wear protective gloves, protective clothing and eye or face protection.<br>P273 - Avoid release to the environment.<br>P260 - Do not breathe vapour or spray.                                                                                                                                                                                                |
| <b>Response</b>                                                                                                                           | :  P391 - Collect spillage.<br>P303 + P361 + P353 + P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Immediately call a POISON CENTER or doctor.<br>P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| <b>Storage</b>                                                                                                                            | :  Not applicable.                                                                                                                                                                                                                                                                                                                                                     |
| <b>Disposal</b>                                                                                                                           | :  Not applicable.                                                                                                                                                                                                                                                                                                                                                     |
| <b>Hazardous ingredients</b>                                                                                                              | :  tetrapotassium pyrophosphate                                                                                                                                                                                                                                                                                                                                        |
| <b>Supplemental label elements</b>                                                                                                        | :  Not applicable.                                                                                                                                                                                                                                                                                                                                                     |
| <b>Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles</b> | :  Not applicable.                                                                                                                                                                                                                                                                                                                                                     |
| <b><u>Special packaging requirements</u></b>                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Containers to be fitted with child-resistant fastenings</b>                                                                            | :  Not applicable.                                                                                                                                                                                                                                                                                                                                                     |
| <b>Tactile warning of danger</b>                                                                                                          | :  Not applicable.                                                                                                                                                                                                                                                                                                                                                   |

**2.3 Other hazards**

|                                                                                                          |                                                                                                                                                                             |
|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII</b> | :  This mixture does not contain any substances that are assessed to be a PBT or a vPvB. |
| <b>Other hazards which do not result in classification</b>                                               | :  None known.                                                                           |

**SECTION 3: Composition/information on ingredients****3.2 Mixtures** : Mixture

| Product/ingredient name                                                                                         | Identifiers                                                                            | %    | Classification                                                                                                                                                | Type    |
|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
|  tetrapotassium pyrophosphate | REACH #:<br>01-2119489369-18<br>EC: 230-785-7<br>CAS: 7320-34-5                        | ≤3   | Acute Tox. 4, H332<br>Eye Irrit. 2, H319                                                                                                                      | [1]     |
| sodium hydroxide                                                                                                | REACH #:<br>01-2119457892-27<br>EC: 215-185-5<br>CAS: 1310-73-2<br>Index: 011-002-00-6 | ≤0.3 | Met. Corr. 1, H290<br>Skin Corr. 1A, H314<br>Eye Dam. 1, H318                                                                                                 | [1] [2] |
| sodium hypochlorite solution Cl active                                                                          | REACH #:<br>01-2119488154-34<br>EC: 231-668-3<br>CAS: 7681-52-9<br>Index: 017-011-00-1 | ≤0.3 | Met. Corr. 1, H290<br>Acute Tox. 4, H302<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>Aquatic Acute 1, H400 (M=1)<br>Aquatic Chronic 1, H410 (M=1)<br>EUH031 | [1]     |

**SECTION 3: Composition/information on ingredients**

|  |  |  |                                                                             |  |
|--|--|--|-----------------------------------------------------------------------------|--|
|  |  |  | <b>See Section 16 for the full text of the H statements declared above.</b> |  |
|--|--|--|-----------------------------------------------------------------------------|--|

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** : ☒ Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician.
- Inhalation** : ☒ Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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. 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** : ☒ Get medical attention immediately. Call a poison center or physician. Wash contaminated skin with 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. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : ☒ Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician. 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. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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** : ☒ Adverse symptoms may include the following:  
pain  
watering  
redness
- Inhalation** : ☒ No specific data.
- Skin contact** : ☒ Adverse symptoms may include the following:  
pain or irritation  
redness  
blistering may occur

**SECTION 4: First aid measures**

**Ingestion** : ☒ Adverse symptoms may include the following:  
stomach pains

**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 dry chemical, CO<sub>2</sub>, water spray (fog) or foam. Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing media** : ☒ Do not use water jet.

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

**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** : ☒ Decomposition products may include the following materials:  
phosphorus oxides  
metal oxide/oxides

**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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to British standard BS EN 469 will provide a basic level of protection for chemical incidents.

**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. Do not breathe 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. Absorb with an inert material and place in an appropriate waste disposal container. Absorb spillage to prevent material damage. Dispose of via a licensed waste disposal contractor.

**SECTION 6: Accidental release measures**

- Large spill** : Stop leak if without risk. Move containers from spill area. Absorb spillage to prevent material damage. 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. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. 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.
- 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). Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not breathe dust or mist. Do not ingest. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from acids. Empty containers retain product residue and can be hazardous. Do not reuse container. Absorb spillage to prevent material damage.
- 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: 15 to 25°C (59 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. Store in corrosive resistant container with a resistant inner liner. Store locked up. Separate from acids. Keep away from metals. 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**

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

**8.1 Control parameters****Occupational exposure limits**

| Product/ingredient name | Exposure limit values                                                                  |
|-------------------------|----------------------------------------------------------------------------------------|
| sodium hydroxide        | EH40/2005 WELs (United Kingdom (UK), 1/2020)<br>STEL 15 minutes: 2 mg/m <sup>3</sup> . |

**Biological exposure indices**

None known.

**SECTION 8: Exposure controls/personal protection**

**Recommended monitoring procedures** : ☒ Reference should be made to monitoring standards, such as the following: British Standard BS EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) British Standard BS EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) British Standard BS EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

**DNELs/DMELs**

**DNEL/DMEL Summary** : ☒ Not applicable.

**PNECs**

**PNEC Summary** : ☒ Not applicable.

**8.2 Exposure controls**

**Appropriate engineering controls** : ☒ If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**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. 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: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

**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. **Recommended:** Wear suitable gloves tested to EN374.

**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.

**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**

|                                                     |                                                                                                                                                                      |
|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Physical state</b>                               | : Liquid.                                                                                                                                                            |
| <b>Colour</b>                                       | : Colourless.                                                                                                                                                        |
| <b>Odour</b>                                        | : Odourless.                                                                                                                                                         |
| <b>Odour threshold</b>                              | : Not applicable.                                                                                                                                                    |
| <b>Melting point/freezing point</b>                 | : Not available.                                                                                                                                                     |
| <b>Initial boiling point and boiling range</b>      | : Not available.                                                                                                                                                     |
| <b>Flammability (solid, gas)</b>                    | : Not applicable.                                                                                                                                                    |
| <b>Upper/lower flammability or explosive limits</b> | : Not available.                                                                                                                                                     |
| <b>Flash point</b>                                  | : <input checked="" type="checkbox"/> Not applicable.                                                                                                                |
| <b>Auto-ignition temperature</b>                    | : Not available.                                                                                                                                                     |
| <b>Decomposition temperature</b>                    | : Not available.                                                                                                                                                     |
| <b>pH</b>                                           | : <input checked="" type="checkbox"/> 12 to 12.5 [20 °C]                                                                                                             |
| <b>Viscosity</b>                                    | : <input checked="" type="checkbox"/> Dynamic (room temperature): Not available.<br>Kinematic (room temperature): Not available.<br>Kinematic (40°C): Not available. |
| <b>Solubility in water</b>                          | : Not available.                                                                                                                                                     |
| <b>Miscible with water</b>                          | : Yes.                                                                                                                                                               |
| <b>Partition coefficient: n-octanol/ water</b>      | : Not applicable.                                                                                                                                                    |
| <b>Vapour pressure</b>                              | : Not available.                                                                                                                                                     |
| <b>Evaporation rate</b>                             | : Not available.                                                                                                                                                     |
| <b>Relative density</b>                             | : Not available.                                                                                                                                                     |
| <b>Vapour density</b>                               | : Not available.                                                                                                                                                     |
| <b>Explosive properties</b>                         | : Not available.                                                                                                                                                     |
| <b>Oxidising properties</b>                         | : Not available.                                                                                                                                                     |
| <b><u>Particle characteristics</u></b>              |                                                                                                                                                                      |
| <b>Median particle size</b>                         | : Not applicable.                                                                                                                                                    |

**9.2 Other information**

Not available.

**SECTION 10: Stability and reactivity**

|                                                |                                                                                                                                  |
|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>10.1 Reactivity</b>                         | : <input checked="" type="checkbox"/> No specific test data related to reactivity available for this product or its ingredients. |
| <b>10.2 Chemical stability</b>                 | : <input checked="" type="checkbox"/> The product is stable.                                                                     |
| <b>10.3 Possibility of hazardous reactions</b> | : <input checked="" type="checkbox"/> Under normal conditions of storage and use, hazardous reactions will not occur.            |
| <b>10.4 Conditions to avoid</b>                | : <input checked="" type="checkbox"/> Keep away from heat, sparks and flame.                                                     |
| <b>10.5 Incompatible materials</b>             | : <input checked="" type="checkbox"/> Reactive or incompatible with the following materials:<br>acids<br>metals                  |

CASYclean

**SECTION 10: Stability and reactivity**

**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 and Species                                     | Dose [Exposure]     | Remarks |
|-------------------------------|--------------------------------------------------------|---------------------|---------|
| tetrapotassium pyrophosphate  | Inhalation - Rat - Male, Female - LC50 Dusts and mists | >1.1 mg/l [4 hours] | -       |
| sodium hypochlorite, solution | Oral - Rat - LD50                                      | 1100 mg/kg          | -       |

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

**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) |
|----------------------------------------|--------------|----------------|--------------------------|-----------------------------|-------------------------------------|
| CASYclean                              | N/A          | N/A            | N/A                      | 733.3                       | N/A                                 |
| tetrapotassium pyrophosphate           | N/A          | N/A            | N/A                      | 11                          | N/A                                 |
| sodium hypochlorite solution Cl active | 1100         | N/A            | N/A                      | N/A                         | N/A                                 |

**Irritation/Corrosion****Conclusion/Summary**

**Skin** : Causes severe burns.  
**Eyes** : Causes serious eye damage.  
**Respiratory** : Not available.

**Respiratory or skin sensitization****Conclusion/Summary**

**Skin** : Not available.  
**Respiratory** : Not available.

**Mutagenicity**

**Conclusion/Summary** : Not available.

**Carcinogenicity**

**Conclusion/Summary** : No known significant effects or critical hazards.

**Reproductive toxicity**

**Conclusion/Summary** : Not available.

**Teratogenicity**

**Conclusion/Summary** : Not available.

**Specific target organ toxicity (single exposure)**

Not available.

**Specific target organ toxicity (repeated exposure)**

Not available.

**Aspiration hazard**

Not available.

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

**Potential acute health effects**

**Eye contact** : Causes serious eye damage.

**SECTION 11: Toxicological information**

- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : Causes severe burns.
- Ingestion** : No known significant effects or critical hazards.

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

- Eye contact** : Adverse symptoms may include the following:  
pain  
watering  
redness
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:  
pain or irritation  
redness  
blistering may occur
- Ingestion** : Adverse symptoms may include the following:  
stomach pains

**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**

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

**Potential chronic health effects**

Not available.

- Conclusion/Summary** : Not available.
- General** : No known significant effects or critical hazards.
- 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**

Not available.

**SECTION 12: Ecological information****12.1 Toxicity**

| Product/ingredient name       | Result [Exposure]                       | Species        | Remarks |
|-------------------------------|-----------------------------------------|----------------|---------|
| tetrapotassium pyrophosphate  | Acute - EC50<br>>100 mg/l [48 hours]    | Daphnia        | -       |
| sodium hypochlorite, solution | Acute - EC50<br>0.141 mg/l [48 hours]   | Daphnia        | -       |
|                               | Acute - ErC50<br>0.0365 mg/l [72 hours] | Algae          | -       |
|                               | Chronic - EC50<br>563 mg/l [3 hours]    | Micro-organism | -       |

- Conclusion/Summary** : Toxic to aquatic life with long lasting effects.

**SECTION 12: Ecological information****12.2 Persistence and degradability****Conclusion/Summary** : There are no data available on the mixture itself.**12.3 Bioaccumulative potential**

Not available.

**12.4 Mobility in soil****Soil/water partition coefficient** : Not available.**Mobility** : Not available.**12.5 Results of PBT and vPvB assessment**

| Product/ingredient name                | PBT | P  | B  | T  | vPvB | vP | vB |
|----------------------------------------|-----|----|----|----|------|----|----|
| tetrapotassium pyrophosphate           | No  | No | No | No | No   | No | No |
| sodium hydroxide                       | No  | No | No | No | No   | No | No |
| sodium hypochlorite solution Cl active | No  | No | No | No | No   | No | No |

**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.

**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.

**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>               | <input checked="" type="checkbox"/> UN3266                                                                                       | <input checked="" type="checkbox"/> UN3266                                                                                       | <input checked="" type="checkbox"/> UN3266                                                                                       | <input checked="" type="checkbox"/> UN3266                                                                                       |
| <b>14.2 UN proper shipping name</b> | <input checked="" type="checkbox"/> CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (sodium hypochlorite, solution, sodium hydroxide) | <input checked="" type="checkbox"/> CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (sodium hypochlorite, solution, sodium hydroxide) | <input checked="" type="checkbox"/> CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (sodium hypochlorite, solution, sodium hydroxide) | <input checked="" type="checkbox"/> Corrosive liquid, basic, inorganic, n.o.s. (sodium hydroxide, sodium hypochlorite, solution) |
|                                     |                                                                                                                                  |                                                                                                                                  |                                                                                                                                  |                                                                                                                                  |

**SECTION 14: Transport information**

|                                        |                                                                                                                                                                     |                                                                                                                                                                     |                                                                                                                                                                        |                                                                                                                                                        |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>14.3 Transport hazard class(es)</b> |                                                                                    |                                                                                    |                                                                                       |                                                                     |
| <b>Label</b>                           |   |   |   |                                                                     |
| <b>14.4 Packing group</b>              |                                                                                    |                                                                                    |                                                                                       |                                                                     |
| <b>14.5 Environmental hazards</b>      | Yes.                                                                                                                                                                | Yes.                                                                                                                                                                | Marine Pollutant: Yes                                                                                                                                                  |  Yes. The environmentally hazardous substance mark is not required. |

**Additional information****ADR/RID**

 The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.

**Hazard identification number** 80

**Limited quantity** 5 L

**Special provisions** 274

**Tunnel code** (E)

**ADN**

 The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.

**Special provisions** 274

**IMDG**

 The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.

**Emergency schedules** F-A, S-B

**Special provisions** 223, 274

**IATA**

 The environmentally hazardous substance mark may appear if required by other transportation regulations.

**Quantity limitation** Passenger and Cargo Aircraft: 5 L. Packaging instructions: 852. Cargo Aircraft Only: 60 L. Packaging instructions: 856. Limited Quantities - Passenger Aircraft: 1 L. Packaging instructions: Y841.

**Special provisions** A3, A803

**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 applicable.

**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.

CASYclean

**SECTION 15: Regulatory information****Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles**

| Product/ingredient name                       | %   | Designation [Usage] |
|-----------------------------------------------|-----|---------------------|
| <input checked="" type="checkbox"/> CASYclean | ≥90 | 3                   |

**Labelling** : ☒Not applicable.

**Seveso Directive**

☒This product is not controlled under the Seveso Directive.

**Product type** : Liquid.

Avoid exposure. After accidental exposure, seek immediate medical attention. Do not induce vomiting.

Product waste and emptied containers should be disposed of in accordance with local waste regulations. Do not reuse container.

Do not allow to enter drains or watercourses.

**Expiry date** : Not available.

**Hazchem code** : ☒X

**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.

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

Not listed.

**UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

**OECD Comprehensive Global PFAS Database**

Not listed.

**Inventory list**

**Australia** : All components are listed or exempted.

**Canada** : All components are listed or exempted.

**China** : All components are listed or exempted.

**Eurasian Economic Union** : ☒**Russian Federation inventory**: All components are listed or exempted.

**New Zealand** : All components are listed or exempted.

**Philippines** : All components are listed or exempted.

**Republic of Korea** : All components are listed or exempted.

**Taiwan** : All components are listed or exempted.

**Thailand** : All components are listed or exempted.

**United States** : All components are active or exempted.

**Viet Nam** : All components are listed or exempted.

**SECTION 15: Regulatory information**

**15.2 Chemical safety assessment** : This product contains substances for which Chemical Safety Assessments are still required.

**SECTION 16: Other information**

Indicates information that has changed from previously issued version.

**Abbreviations and acronyms** :

- ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
- ADR = Agreement concerning the International Carriage of Dangerous Goods by Road
- ATE = Acute Toxicity Estimate
- BCF = Bioconcentration Factor
- CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
- DMEL = Derived Minimal Effect Level
- DNEL = Derived No Effect Level
- EUH statement = CLP-specific Hazard statement
- EWC = European Waste Catalogue
- IATA = International Air Transport Association
- IBC = Intermediate Bulk Container
- IMDG = International Maritime Dangerous Goods
- LogPow = logarithm of the octanol/water partition coefficient
- MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
- N/A = Not available
- PBT = Persistent, Bioaccumulative and Toxic
- PNEC = Predicted No Effect Concentration
- RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
- RRN = REACH Registration Number
- SGG = Segregation Group
- vPvB = Very Persistent and Very Bioaccumulative

**Procedure used to derive the classification**

| Classification                                                                          | Justification                                                                           |
|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| Met. Corr. 1, H290<br>Skin Corr. 1, H314<br>Eye Dam. 1, H318<br>Aquatic Chronic 3, H412 | Expert judgment<br>On basis of test data<br>On basis of test data<br>Calculation method |

**Full text of abbreviated H statements**

|        |                                                       |
|--------|-------------------------------------------------------|
| H290   | May be corrosive to metals.                           |
| H302   | Harmful if swallowed.                                 |
| H314   | Causes severe skin burns and eye damage.              |
| H318   | Causes serious eye damage.                            |
| H319   | Causes serious eye irritation.                        |
| H332   | Harmful if inhaled.                                   |
| H400   | Very toxic to aquatic life.                           |
| H410   | Very toxic to aquatic life with long lasting effects. |
| H412   | Harmful to aquatic life with long lasting effects.    |
| EUH031 | Contact with acids liberates toxic gas.               |

**Full text of classifications**

|                   |                                                 |
|-------------------|-------------------------------------------------|
| 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 3 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 |
| Eye Dam. 1        | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1  |
| Eye Irrit. 2      | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2  |
| Met. Corr. 1      | CORROSIVE TO METALS - Category 1                |
| Skin Corr. 1      | SKIN CORROSION/IRRITATION - Category 1          |
| Skin Corr. 1A     | SKIN CORROSION/IRRITATION - Category 1A         |
| Skin Corr. 1B     | SKIN CORROSION/IRRITATION - Category 1B         |

**SECTION 16: Other information****Date of printing** : 17/12/2025**Date of issue/ Date of revision** : 17/12/2025**Date of previous issue** : 02/06/2022**Version** : 4**Notice to reader**

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

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.