



Version No: 1

Issue date: 02/APR/2024

Revision date: Not Applicable

Safety Data Sheet (Conforms to Annex II of REACH (1907/2006) - Regulation 2020/878)

SECTION 1. Identification of the substance / mixture and of the company / undertaking

| | |
|--|--|
| 1.1. Product Identifier | |
| Product name | PL Lysis |
| Synonyms | Not Available |
| Other means of identification | Not Available |
| 1.2. Relevant identified uses of the substance or mixture and uses advised against | |
| Relevant identified uses | Laboratory use. |
| Uses advised against | Not Applicable |
| 1.3. Details of the manufacturer or supplier of the safety data sheet | |
| Registered company name | CleanNA |
| Address | Coenecoop 75, 2741 PH, Waddinxveen, The Netherlands |
| Telephone | +31 (0) 182 22 33 50 |
| Fax | +31 (0) 182 22 33 98 |
| Website | www.cleanna.com |
| Email | info@cleanna.com |
| 1.4. Emergency telephone number | |
| Emergency telephone numbers | 112 (European emergency number) |

SECTION 2. Hazards identification

| | |
|---|---|
| 2.1. Classification of the substance or mixture | |
| Classification according to regulation (EC) No 1272/2008 [CLP] and amendments | H315 – Skin Corrosion/Irritation – Category 2 H317 – Sensitisation (Skin) – Category 1 H319 – Serious eye damage / Eye irritation – Category 2 H412 – Hazardous to Aquatic Environment Long-Term Hazard – Category 3 |
| 2.2. Label elements | |
| Hazard pictogram(s) | |
| Signal word | Warning |
| Hazard statement(s) | |
| H315 | Causes skin irritation |
| H317 | May cause an allergic skin reaction |
| H319 | Causes serious eye irritation |
| H412 | Harmful to aquatic life with long lasting effects |
| Supplementary statement(s) | |
| | Not Applicable |

Precautionary statement(s) Prevention

| | |
|------|---|
| P261 | Avoid breathing mist / vapours / spray |
| P264 | Wash all exposed external body areas thoroughly after handling |
| P272 | Contaminated work clothing should not be allowed out of the workplace |
| P273 | Avoid release to the environment |
| P280 | Wear protective gloves & clothing, eye and face protection |

Precautionary statement(s) Response

| | |
|--------------------|---|
| P302 + P352 | IF ON SKIN: wash with plenty of water and soap |
| P333 + P313 | If skin irritation or rash occurs get medical advice |
| P337 + P313 | If eye irritation persist get medical advice |
| P362 + P364 | Take off contaminated clothing and wash it before reuse |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. |

Precautionary statement(s) Storage

| | |
|--|----------------|
| | Not Applicable |
|--|----------------|

Precautionary statement(s) Disposal

| | |
|------|---|
| P501 | Dispose of contents / container to authorized hazardous or special waste collection point in accordance with any local regulation |
|------|---|

2.3. Other hazards

Cumulative effects may result following exposure *
May be harmful to the foetus / embryo *

REACH – Art. 57-59: The mixture does not contain Substances of Very High Concern (SVHC) at the SDS issue date.

SECTION 3. Composition / information on ingredients

3.1 Substances

See 'Composition on ingredients' in Section 3.2

3.2 Mixtures

| 1. CAS No 2. EC No 3. Index No 4. REACH No | %[weight] | Name | Classification according to regulation (EC) No 1272/2008 [CLP] and amendments | SCL / M-Factor | Nanoform Particle Characteristics |
|--|---|-----------------------|--|-------------------|--------------------------------------|
| 1. Not Available 2. Not Available 3. Not Available 4. Not Available | 1 - 5 | Cationic detergent | Corrosive to metals – Category 1 Acute Toxicity (Oral and Dermal) – Category 4 Skin Corrosion/Irritation – Category 1B Serious Eye damage/Eye irritation – Category 1 Hazardous to aquatic Environment Long-term Hazard – Category 1 H290, H302, H312, H314, H318, H410 | Not Available | Not Available |
| Legend: | 2. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 3. Classification drawn from C&L; * EU IOELVs available; [e] Substance identified as having endocrine disrupting properties | | | | |

SECTION 4. First aid measures

4.1. Description of first aid measures

| | |
|--------------|--|
| Eye Contact | <ul style="list-style-type: none">- If in eyes, hold eyelids apart and flush the eye continuously with running water- Continue flushing until advised to stop by Poisons Information Centre or a doctor, or at least for 15 minutes- Ensure complete irrigation of the eye by keeping eyelids apart and away from eye moving the eyelids by occasionally lifting the upper and lower lids- Seek medical attention without delay if pain persists or recurs- Removal of contact lenses after an eye injury should only be undertaken by skilled personnel |
| Skin Contact | <p>If skin contact occurs:</p> <ul style="list-style-type: none">- Immediately remove all contaminated clothing including footwear- Flush skin and hair with running water (and soap if available)- Seek medical attention in case of irritation |
| Inhalation | <ul style="list-style-type: none">- If fumes or combustion products are inhaled remove from contaminated area.- Other measures are usually unnecessary. |
| Ingestion | <ul style="list-style-type: none">- Immediately give a glass of water- First aid is no generally required. If in doubt, contact a POISONS INFORMATION CENTER or a doctor |

4.2 Most important symptoms and effects, both acute and delayed

See Section 11

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

Treat symptomatically

SECTION 5. Firefighting measures

5.1 Extinguishing media

- There is no restriction on the type of extinguisher which may be used.
- Use extinguishing media suitable for surrounding area.

5.2 Special hazards arising from the substrate or mixture

| | |
|----------------------|-------------|
| Fire Incompatibility | None known. |
|----------------------|-------------|

5.3. Advice for firefighters

| | |
|-----------------------|---|
| Fire Fighting | <ul style="list-style-type: none">- Alert Fire Brigade and tell them location and nature of hazard- Wear breathing apparatus plus protective gloves in the event of a fire- Prevent, by any means available, spillage from entering drains or water courses- Use fire fighting procedures suitable for surrounding area- DO NOT approach container suspected to be hot- Cool fire exposed containers with water spray from a protected location- If safe to do so, remove containers from path of fire- Equipment should be thoroughly decontaminated after use |
| Fire/Explosion Hazard | <ul style="list-style-type: none">- Non Combustible- Not considered a significant fire risk, however containers may burn <p>May emit corrosive fumes</p> |

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

See section 8

6.2 Environmental precautions

See section 12

6.3 Methods and material for containment and cleaning up

| | |
|--------------|---|
| Minor Spills | <ul style="list-style-type: none">- Clean up all spills immediately.- Avoid breathing vapours and contact with skin and eyes.- Control personal contact with the substance, by using protective equipment.- Contain and absorb spill with sand, earth, inert material or vermiculite- Wipe up.- Place in a suitable, labelled container for waste disposal. |
| Major Spills | <p>Moderate hazard</p> <ul style="list-style-type: none">- Clear area of personnel and move upwind.- Alert Fire Brigade and tell them location and nature of hazard- Wear breathing apparatus plus protective gloves- Prevent, by any means available, spillage from entering drains or water course- Stop leak if safe to do so- Contain spill with sand, earth or vermiculite- Collect recoverable product into labelled containers for recycling- Neutralize / decontaminate residue (see section 13 for specific agent)- Collect solid residues and seal in labelled drums for disposal- Wash area and prevent runoff into drains- After clean up operations decontaminate and launder all protective clothing and equipment before storing and reuse- If contamination of drains or waterways occurs, advise emergency services |

6.4. Reference to other sections

Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

| | |
|-------------------------------|--|
| Safe handling | <ul style="list-style-type: none">- Avoid all personal contact including inhalation- Wear protective clothing when risk of exposure occurs- Use in a well-ventilated area- Avoid contact with moisture- Avoid contact with incompatible materials- When handling DO NOT eat, drink or smoke- Keep containers securely sealed when not in use- Avoid physical damage to containers- Always wash hands with soap and water after handling- Work clothes should be laundered separately. Launder contaminated clothing before reuse- Use good occupational work practice- Observe manufacturer's storage and handling recommendations contained within this SDS- Atmosphere should be regularly against established exposure standards to ensure working conditions are maintained- DO NOT allow clothing wet with material to stay in contact with skin |
| Fire and explosion protection | See section 5 |
| Other information | None known |

7.2. Conditions for safe storage, including any incompatibilities

| | |
|---|---|
| Suitable container | <div><div></div><div>- Polyethylene of polypropylene container</div><div>- Packaging as recommended by manufacturer</div><div>- Check all containers are clearly labelled and free from leaks</div></div> |
| Storage incompatibility | None known |
| Hazard categories in accordance with Regulation (EC) No 1272/2008 | Not available |
| Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of | Not available |

7.3. Specific end use(s)

See section 1.2

SECTION 8. Exposure controls / personal protection

8.1. Control parameters

| Ingredient | DNELs Exposure Pattern Worker | PNECs Compartment |
|---------------|----------------------------------|----------------------|
| Not Available | Not Available | Not Available |

* Values for General Population

Occupational Exposure Limits (OEL)

INGREDIENT DATA

| Source | Ingredient | Material name | TWA | STEL | Peak | Notes |
|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Not Available | Not Available | Not Available | Not Available | Not Available | Not Available | Not Available |

Emergency Limits

| Ingredient | TEEL-1 | TEEL-2 | TEEL-3 |
|------------|---------------|---------------|---------------|
| PL Lysis | Not Available | Not Available | Not Available |

| Ingredient | Original IDLH | Revised IDLH |
|------------|---------------|---------------|
| PL Lysis | Not Available | Not Available |

8.2. Exposure controls

8.2.1 Appropriate engineering controls

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.

The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk.

Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use.

Employers may need to use multiple types of controls to prevent employee overexposure.

General exhaust is adequate under normal operating conditions. If risk of overexposure exists, wear SAA approved respirator. Correct fit is essential to obtain adequate protection. Provide adequate ventilation in warehouse or closed storage areas. Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant.

| Type of contaminant | Air Speed |
|---|---------------------------------|
| Solvent, vapours, degreasing etc. evaporating from tank (in still air) | 0.25 – 0.5 m/s (50 – 100 f/min) |
| Aerosols, fumes from pouring operations, intermittent container filling, low speed conveyer transfers, welding, spray drift, plating acid fumes, pickling (released at low velocity into zone of active generation) | 0.5 – 1 m/s (100 – 200 f/min) |
| Direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher debts, gas discharge (active generation into zone of rapid air motion) | 1 – 2.5 m/s (200 – 500 f/min) |
| Grinding, abrasive blasting, tumbling, high speed generated dusts (released at high velocity into zone of very high rapid air motion) | 2.5 – 10 m/s (500 – 200 f/min) |

Within each range the appropriate value depends to:

| Lower end of range | Upper end of range |
|---|------------------------------------|
| 1: Room air currents minimal of favourable to capture | 1: Disturbing room air currents |
| 2: Contaminants of low toxicity or of nuisance value only | 2: Contaminants of high toxicity |
| 3: Intermittent, low production | 3: High Production, heavy use |
| 4: Large hood or large air mass in motion | 4: Small hood – local control only |

Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction pipe. Velocity generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 1-2 m/s (200-400 f/min) for extraction of solvents generated in a tank 2 meters distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used.

8.2.2. Personal protection



Eye and face protection

- Chemical goggles.
- Safety glasses with side shields
- Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly.
[CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]

Skin protection

See Hand protection below

- Wear chemical protective gloves, e.g. PVC
- Wear safety footwear/gumboots, e.g. Rubber

NOTE:

- The material may produce skin sensitisation in predisposed individuals. Care must be taken when removing gloves and other protective equipment, to avoid all possible skin contact
- Contaminated leather items, such as shoes, belts and watchbands should be removed and destroyed.

The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.

Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended.

Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include:

- frequency and duration of contact,
- chemical resistance of glove material,
- glove thickness and
- dexterity

Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent).

- When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended.
- When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended.

- Some glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-term use.
- Contaminated gloves should be replaced.

As defined in ASTM F-739-96 in any application, gloves are rated as:

- Excellent when breakthrough time > 480 min
- Good when breakthrough time > 20 min
- Fair when breakthrough time < 20 min
- Poor when glove material degrades

For general applications, gloves with a thickness typically greater than 0.35 mm, are recommended.

It should be emphasised that glove thickness is not necessarily a good predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the glove material. Therefore, glove selection should also be based on consideration of the task requirements and knowledge of breakthrough times.

Glove thickness may also vary depending on the glove manufacturer, the glove type and the glove model. Therefore, the manufacturers technical data should always be taken into account to ensure selection of the most appropriate glove for the task.

Note: Depending on the activity being conducted, gloves of varying thickness may be required for specific tasks. For example:

- Thinner gloves (down to 0.1 mm or less) may be required where a high degree of manual dexterity is needed. However, these gloves are only likely to give short duration protection and would normally be just for single use applications, then disposed of.
- Thicker gloves (up to 3 mm or more) may be required where there is a mechanical (as well as a chemical) risk i.e. where there is abrasion or puncture potential

Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended.

Body protection

See Other protection below

Other protection

- Overalls
- PVC apron
- Barrier cream
- Skin cleansing cream
- Eye wash unit

Respiratory protection

GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the “Forsberg Clothing Performance Index”
The effect(s) of the following substance(s) are taken into account in the *computer-generated* selection: PL Lysis

| Material | Performance Index |
|--------------------|-------------------|
| NATURAL RUBBER | A |
| NATUREL + NEOPRENE | A |
| NITRILE | A |

A: Best selection B: Satisfactory, may degrade after 4 hours continuous immersion C: Poor to dangerous choice for other than short term immersion
NOTE: As a series of factors will influence the actual performance of the glove, a final solution must be based on detailed observation.

8.2.3. Environmental exposure controls

See section 12

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | | | |
|--|---------------|---|---------------|
| Appearance | Not Available | | |
| Physical state | Liquid | Relative density (Water = 1) | Not Available |
| Odour | Not Available | Partition coefficient n-octanol / water | Not Available |
| Odour threshold | Not Available | Auto-ignition temperature (°C) | Not Available |
| pH (as supplied) | Not Available | Decomposition temperature (°C) | Not Available |
| Melting point / freezing point (°C) | Not Available | Viscosity (cSt) | Not Available |
| Initial boiling point and boiling range (°C) | Not Available | Molecular weight (g/mol) | Not Available |
| Flash point (°C) | Not Available | Taste | Not Available |
| Evaporation rate | Not Available | Explosive properties | Not Available |
| Flammability | Not Available | Oxidising properties | Not Available |
| Upper Explosive Limit (%) | Not Available | Surface Tension (dyn/cm or mN/m) | Not Available |
| Lower Explosive Limit (%) | Not Available | Volatile Component (%vol) | Not Available |
| Vapour pressure (kPa) | Not Available | Gas group | Not Available |
| Solubility in water | Immiscible | pH as a solution (1%) | Not Available |
| Vapour density (Air = 1) | Not Available | VOC g/L | Not Available |
| Nanoform Solubility | Not Available | Nanoform Particle Characteristics | Not Available |
| Particle Size | Not Available | | |

9.2. Other information

Not Available

SECTION 10. Stability and reactivity

| | |
|--|---|
| 10.1.Reactivity | See section 7.2 |
| 10.2. Chemical stability | <ul style="list-style-type: none">- Unstable in presence of incompatible materials- Product is considered stable- Hazardous polymerisation will not occur |
| 10.3. Possibility of hazardous reactions | See section 7.2 |
| 10.4. Conditions to avoid | See section 7.2 |
| 10.5. Incompatible materials | See section 7.2 |
| 10.6. Hazardous decomposition products | See section 5.3 |

SECTION 11. Toxicological information

11.1. Information on toxicological effects

| | | |
|--------------|--|---------------|
| Inhaled | The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, adverse systemic effects have been produced following exposure of animals by at least on other route and good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting. | |
| Ingestion | The material has NOT been classified by ED Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence. | |
| Skin Contact | This material can cause inflammation of the skin on contact in some persons The material may accentuate any pre-existing dermatitis condition Skin contact is not thought to have harmful health effects (as classified under EC Directives) the material may still produce health damage following entry through wounds, lesions or abrasions. | |
| Eye | This material can cause eye irritation and damage in some persons | |
| Chronic | Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population | |
| PL Lysis | TOXICITY | IRRITATION |
| | Not Available | Not Available |
| Legend: | 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances | |

| | |
|----------|--|
| PL Lysis | The following information refers to contact allergens as a group and may not be specific to this product. |
| | Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. Other allergic skin reactions, e.g. contact urticaria, involve antibody-mediated immune reactions. The significance of the contact allergen is not simply determined by its sensitization potential. The distribution of the substance and the opportunities for contact with it are equally important. A weakly sensitizing substance which is widely distributed can be a more important allergen than one with stronger sensitizing potential with which few individuals come into contact. From a clinical point of view, substances are noteworthy if they produce an allergic test reaction in more than 1% of the persons tested. |

| | | | |
|---|---|--------------------------|---|
| Acute Toxicity | ✗ | Carcinogenicity | ✗ |
| Skin Irritation/Corrosion | ✓ | Reproductivity | ✗ |
| Serious Eye Damage/Irritation | ✓ | STOT - Single Exposure | ✗ |
| Respiratory or Skin sensitisation | ✓ | STOT - Repeated Exposure | ✗ |
| Mutagenicity | ✗ | Aspiration Hazard | ✗ |
| Legend: ✗ – Data either not available or does not fill the criteria for classification ✓ – Data available to make classification | | | |

11.2. Information on other hazards

1. Endocrine Disruption Properties

Not Available

2. Other Information

See Section 11.1

SECTION 12. Ecological information

12.1 Toxicity

| PL Lysis | Endpoint | Test duration (hr) | Species | Value | Source |
|----------|--|--------------------|---------------|---------------|---------------|
| | Not available | Not available | Not available | Not available | Not available |
| Legend: | Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data | | | | |

12.2. Persistence and degradability

| Ingredient | Persistence: Water/Soil | Persistence: Air |
|------------|-------------------------|-------------------|
| | No data available | No data available |

12.3. Bio accumulative potential

| Ingredient | Bioaccumulation |
|------------|-------------------|
| | No data available |

12.4. Mobility in soil

| Ingredient | Mobility |
|------------|-------------------|
| | No data available |

12.5. Results of PBT and vPvB assessment

| | P | B | T |
|-------------------------|---------------|---------------|---------------|
| Relevant available data | Not Available | Not Available | Not Available |
| PBT | ✗ | ✗ | ✗ |
| vPvB | ✗ | ✗ | ✗ |
| PBT Criteria fulfilled? | No | | |
| vPvB | No | | |

12.6. Endocrine Disruption Properties

Not Available

12.7. Other adverse effects

One or more ingredients within this SDS has the potential of causing ozone depletion and/or photochemical ozone creation

SECTION 13. Disposal considerations

13.1. Waste treatment methods

| | |
|------------------------------|--|
| Product / Packaging disposal | <ul style="list-style-type: none">Containers may still present a chemical hazard/danger when emptyReturn to supplier for reuse/recycling, if possible <p>Otherwise:</p> <ul style="list-style-type: none">If container cannot be cleaned sufficiently well to ensure that residuals do not remain of if the container cannot be used to store the same product, then puncture containers to prevent reuse and bury at an authorized landfillWhere possible retain label warnings and SDS and observe all notices pertaining to the product. <p>Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.</p> <p>A hierarchy of Controls seems to be common - the user should investigate:</p> <ul style="list-style-type: none">ReductionReuseRecyclingDisposal (if all else fails) <p>This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. Shelf life considerations should also be applied in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be appropriate.</p> <ul style="list-style-type: none">DO NOT allow wash water from cleaning or process equipment to enter drains.It may be necessary to collect all wash water for treatment before disposal.In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.Where in doubt contact the responsible authority.Recycle wherever possible or consult manufacturer for recycling options.Consult State Land Waste Authority for disposal.Bury or incinerate residue at an approved siteRecycle containers if possible or dispose in an authorised landfill |
| | |
| | |
| | |
| Waste treatment options | Not Available |
| Sewage disposal options | Not Available |

SECTION 14 Transport information

Labels Required

| | |
|------------------|----|
| Marine Pollutant | NO |
|------------------|----|

Land transport (ADR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

| | | |
|------------------------------------|--------------------------------|----------------|
| 14.1. UN number | Not Applicable | |
| 14.2. UN proper shipping name | Not Applicable | |
| 14.3. Transport hazard class(es) | Class | Not Applicable |
| | Sub risk | Not Applicable |
| 14.4. Packing group | Not Applicable | |
| 14.5. Environmental hazard | Not Applicable | |
| 14.6. Special precautions for user | Hazard identification (Kemler) | Not Applicable |
| | Classification code | Not Applicable |
| | Hazard Label | Not Applicable |
| | Special provisions | Not Applicable |
| | Limited quantity | Not Applicable |
| | Tunnel Restriction Code | Not Applicable |

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

| | | |
|------------------------------------|---|----------------|
| 14.1. UN number | Not Applicable | |
| 14.2. UN proper shipping name | Not Applicable | |
| 14.3. Transport hazard class(es) | ICAO/IATA Class | Not Applicable |
| | ICAO / IATA Sub risk | Not Applicable |
| | ERG Code | Not Applicable |
| 14.4. Packing group | Not Applicable | |
| 14.5. Environmental hazard | Not Applicable | |
| 14.6. Special precautions for user | Special provisions | Not Applicable |
| | Cargo Only Packing Instructions | Not Applicable |
| | Cargo Only Maximum Qty / Pack | Not Applicable |
| | Passenger and Cargo Packing Instructions | Not Applicable |
| | Passenger and Cargo Maximum Qty / Pack | Not Applicable |
| | Passenger and Cargo Limited Quantity Packing Instructions | Not Applicable |
| | Passenger and Cargo Limited Maximum Qty / Pack | Not Applicable |

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

| | | |
|------------------------------------|--------------------|----------------|
| 14.1. UN number | Not Applicable | |
| 14.2. UN proper shipping name | Not Applicable | |
| 14.3. Transport hazard class(es) | IMDG Class | Not Applicable |
| | IMDG Sub risk | Not Applicable |
| 14.4. Packing group | Not Applicable | |
| 14.5. Environmental hazard | Not Applicable | |
| 14.6. Special precautions for user | EMS Number | Not Applicable |
| | Special provisions | Not Applicable |
| | Limited Quantities | Not Applicable |

Inland waterways transport (ADN): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

| | | |
|-----------------------------------|---------------------|----------------|
| 14.1. UN number | Not Applicable | |
| 14.2. UN proper shipping name | Not Applicable | |
| 14.3. Transport hazard class(es) | Not applicable | Not Applicable |
| 14.4. Packing group | Not applicable | |
| 14.5. Environmental hazard | Not applicable | |
| 14.6 Special precautions for user | Classification code | Not Applicable |
| | Special provisions | Not Applicable |
| | Limited quantity | Not Applicable |
| | Equipment required | Not Applicable |
| | Fire cones number | Not Applicable |

14.7. Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

14.8. Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

| Product name | Group |
|--------------------|---------------|
| Cationic detergent | Not Available |

14.9. Transport in bulk in accordance with the ICG Code

| Product name | Ship Type |
|--------------------|---------------|
| Cationic detergent | Not Available |

SECTION 15. Regulatory information

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

This safety data sheet is in compliance with the following EU legislation and its adaptations - as far as applicable - : Directives 98/24/EC, - 92/85/EEC, - 94/33/EC, - 2008/98/EC, - 2010/75/EU; Commission Regulation (EU) 2020/878; Regulation (EC) No 1272/2008 as updated through ATPs.

Information according to 2012/18/EU (Seveso III):

| | |
|-----------------|---------------|
| Seveso Category | Not Available |
|-----------------|---------------|

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

National Inventory Status

| National Inventory | Status |
|--|---|
| Australia - AIIIC / Australia Non-Industrial Use | Yes |
| Canada - DSL | Yes |
| Canada - NDSL | No (Cationic detergent) |
| China - IECSC | Yes |
| Europe - EINEC / ELINCS / NLP | Yes |
| Japan - ENCS | Yes |
| Korea - KECI | Yes |
| New Zealand - NZIoC | Yes |
| Philippines - PICCS | Yes |
| USA - TSCA | Yes |
| Taiwan - TCSI | Yes |
| Mexico - INSQ | Yes |
| Vietnam - NCI | Yes |
| Russia - FBEPH | Yes |
| Legend: | Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration. |

SECTION 16. Other information

Full text Risk and Hazard codes

| | |
|--|----------------|
| | Not applicable |
|--|----------------|

Version Summary

| Version | Date of Update | Sections Updated |
|---------|----------------|------------------|
| 1 | 02/APR/2024 | Initial version |

Other information

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered. For detailed advice on Personal Protective Equipment, refer to the following EU CEN Standards:
EN 166 Personal eye-protection
EN 340 Protective clothing
EN 374 Protective gloves against chemicals and micro-organisms
EN 13832 Footwear protecting against chemicals
EN 133 Respiratory protective devices

Definitions and abbreviations

| | |
|---------|--|
| ACGIH | American Conference of Governmental Industrial Hygienists |
| AIIC | Australian Inventory of Industrial Chemicals |
| BCF: | Bio Concentration Factors |
| BEI | Biological Exposure Index |
| DSL | Domestic Substances List |
| EINECS | European Inventory of Existing Commercial chemical Substances |
| ELINCS | European List of Notified Chemical Substances |
| ENCS | Existing and New Chemical Substances Inventory |
| ES | Exposure Standard |
| FBEPH | Russian Register of Potentially Hazardous Chemical and Biological Substances |
| IARC | International Agency for Research on Cancer |
| IECSC | Inventory of Existing Chemical Substance in China |
| IDLH | Immediately Dangerous to Life or Health Concentrations |
| INSQ | Inventario Nacional de Sustancias Químicas |
| KECI: | Korea Existing Chemicals Inventory |
| LOAEL | Lowest Observed Adverse Effect Level |
| LOD | Limit Of Detection |
| NCI | National Chemical Inventory |
| NDSL | Non-Domestic Substances List |
| NLP | No-Longer Polymers |
| NOAEL | No Observed Adverse Effect Level |
| NZIoC: | New Zealand Inventory of Chemicals |
| OSF | Odour Safety Factor |
| OTV | Odour Threshold Value |
| PC | Permissible Concentration |
| PC-STEL | Permissible Concentration Short Term Exposure Limit |
| PICCS | Philippine Inventory of Chemicals and Chemical Substances |
| STEL | Short Term Exposure Limit |
| TCSI | Taiwan Chemical Substance Inventory |
| TEEL | Temporary Emergency Exposure Limit |
| TLV | Threshold Limit Value |
| TSCA | Toxic Substances Control Act |
| TWA | Time Weighted Average |