



# Prolystica® 2X Concentrate Neutral Detergent

## Safety Data Sheet

according to Regulation (EC) No. 453/2010

Date of issue: 05/08/2015

Version: 1.0

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

#### 1.1. Product identifier

Product form : Mixture  
Trade name : Prolystica® 2X Concentrate Neutral Detergent  
Product code : 1C32

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

##### 1.2.1. Relevant identified uses

Industrial/Professional use spec : For hospital and professional use only. Not for home use.  
Use of the substance/mixture : Neutral Detergent

##### 1.2.2. Uses advised against

No additional information available.

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

Manufacturer:

STERIS Corporation  
P. O. Box 147, St. Louis, MO 63166, US  
Telephone Number for Information: 1-800-548-4873 (Customer Service-Healthcare Products)  
US Emergency Telephone No.1-314-535-1395 (STERIS); 1-800-424-9300 (CHEMTREC)

Supplier:

STERIS Limited  
Chancery House, 190 Waterside Road, Hamilton Industrial Park,  
Leicester, LE5 1QZ, UK  
Product/Technical Information Phone No: +44 (0) 116 276 8636  
Email: asksteris\_msds@steris.com

#### 1.4. Emergency telephone number

Emergency number : +44 (0) 1895 622 639

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin Corr/Irritation 3 H316  
Eye Dam. 2B H320

Full text of H-phrases: see Section 16.

##### Classification according to Directive 67/548/EEC or 1999/45/EC

Xi; R36, R38

Full text of R-phrases: see section 16.

##### Adverse physicochemical, human health and environmental effects

No additional information available.

#### 2.2. Label elements

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

Signal word (CLP) : Warning  
Hazard statements (CLP) : H316 - Causes mild skin irritation  
H320 - Causes eye irritation  
Precautionary statements (CLP) : P264 - Wash thoroughly after handling  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P332+P313 - If skin irritation occurs: Get medical attention.  
P337+P313 - If eye irritation persists: Get medical attention.

#### 2.3. Other hazards

No additional information available.

### SECTION 3: Composition/information on ingredients

#### 3.1. Substance

Not applicable.

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### 3.2. Mixture

| Name                                                       | Product identifier                       | %         | Classification according to Directive 67/548/EEC |
|------------------------------------------------------------|------------------------------------------|-----------|--------------------------------------------------|
| Triethanolamine                                            | (CAS No) 102-71-6<br>(EC no) 203-049-8   | 2 - 3     | Xi; R36                                          |
| Alcohols, C9-11, ethoxylated                               | (CAS No) 68439-46-3<br>(EC no) 614-482-0 | 1 - 5     | Xn, R22<br>Xi; R41                               |
| Poly(oxy-1,2-ethanediyl), alpha, -phenyl-, omega, -hydroxy | (CAS No) 9004-78-8<br>(EC no) 500-013-6  | 1 - 5     | Xi; R36/38                                       |
| 1-Octanamine, N,N-dimethyl-, N-oxide                       | (CAS No) 2605-78-9<br>(EC no) 607-854-9  | 1 - 2     | Not classified                                   |
| Methyl-oxirane polymer with oxirane                        | (CAS No) 9003-11-6                       | 0.5 – 1.5 | Not classified                                   |

| Name                                                       | Product identifier                       | %         | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|------------------------------------------------------------|------------------------------------------|-----------|-----------------------------------------------------------------|
| Triethanolamine                                            | (CAS No) 102-71-6<br>(EC no) 203-049-8   | 2 - 3     | Eye Irrit. 2, H319                                              |
| Alcohols, C9-11, ethoxylated                               | (CAS No) 68439-46-3<br>(EC no) 614-482-0 | 1 - 5     | Acute Tox. 4 (Oral), H302<br>Eye Dam. 1, H318                   |
| Poly(oxy-1,2-ethanediyl), alpha, -phenyl-, omega, -hydroxy | (CAS No) 9004-78-8<br>(EC no) 500-013-6  | 1 - 5     | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319                       |
| 1-Octanamine, N,N-dimethyl-, N-oxide                       | (CAS No) 2605-78-9<br>(EC no) 607-854-9  | 1 - 2     | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>STOT SE 3, H335    |
| Methyl-oxirane polymer with oxirane                        | (CAS No) 9003-11-6                       | 0.5 – 1.5 | Not classified                                                  |

Full text of R- and H-phrases: see Section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : Remove patient to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. Get medical attention immediately.
- First-aid measures after skin contact : Immediately flush skin with plenty of water for at least 15 minutes. Remove immediately all contaminated clothing. Rinse skin with water. If skin irritation persists, seek medical attention.
- First-aid measures after eye contact : Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately get medical attention.
- First-aid measures after ingestion : If victim completely conscious/alert. Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician. Give water or milk if the person is fully conscious.

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

- Symptoms/injuries after skin contact : Repeated or prolonged skin contact may cause skin irritation.
- Symptoms/injuries after eye contact : Moderately irritating to the eyes.

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

No additional information available.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

- Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.

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

- Hazardous decomposition products in case of fire : Carbon monoxide and carbon dioxide.

### 5.3. Advice for firefighters

- Firefighting instructions : Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
- Protective equipment for firefighters : Do not enter fire area without proper protective equipment, including respiratory protection.

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

- General measures : Stop leak if safe to do so. Avoid contact with skin, eyes and clothing. Avoid breathing mist or spray. Spilled material may present a slipping hazard. Ensure adequate air ventilation. Work in a well-ventilated area.

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### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

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

Methods for cleaning up : Spills may be picked up with a mop and followed by a water rinse. Small spills may be flushed to a sanitary sewer with copious amounts of water.

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Product for hospital and professional use only. Read label before use. Avoid all eye and skin contact and do not breathe vapour and mist. Provide good ventilation in process area to prevent formation of vapour. For further information refer to Section 8: Exposure-controls/personal protection.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and when leaving work. Separate working clothes from town clothes. Launder separately. Handle in accordance with good industrial hygiene and safety practices.

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

Technical measures : A washing facility/water for eye and skin cleaning purposes should be present. Provide exhaust Clourless to pale straw ventilation or other engineering controls to keep the airborne concentrations of mists and/or vapours below the recommended exposure limits.

Storage conditions : Keep only in the original container. Keep container closed when not in use. Store in a dry, cool, and well-ventilated place.

### 7.3. Specific end use(s)

No additional information available.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| Triethanolamine (102-71-6) |                                |                     |
|----------------------------|--------------------------------|---------------------|
| USA – ACGIH                | ACGIH TWA (mg/m <sup>3</sup> ) | 5 mg/m <sup>3</sup> |

### 8.2. Exposure controls

Appropriate engineering controls : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of mists and/or vapours below the recommended exposure limits.

Personal protective equipment : Avoid all unnecessary exposure. Personal protective equipment should be selected based upon the conditions under which this product is handled or used. Protective clothing. Gloves. Protective goggles.



Hand protection : Wear rubber gloves.

Eye protection : Wear chemical goggles or safety goggles.

Skin and body protection : Wear suitable protective clothing.

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory protection.

Other information : Do not eat, drink or smoke during use.

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### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

|                                            |                              |
|--------------------------------------------|------------------------------|
| Physical state                             | : Liquid                     |
| Appearance                                 | : Clear                      |
| Colour                                     | : Colourless to pale straw   |
| Odour                                      | : No data available          |
| Odour threshold                            | : No data available          |
| pH                                         | : 7.7 Approximately          |
| Relative evaporation rate (butylacetate=1) | : No data available          |
| Melting point                              | : No data available          |
| Freezing point                             | : No data available          |
| Boiling point                              | : No data available          |
| Flash point                                | : No data available          |
| Self ignition temperature                  | : No data available          |
| Decomposition temperature                  | : No data available          |
| Flammability (solid, gas)                  | : No data available          |
| Vapour pressure                            | : No data available          |
| Relative vapour density at 20 °C           | : No data available          |
| Relative density                           | : No data available          |
| Density                                    | : 1.03 g/ml Specific Gravity |
| Solubility                                 | : Water: Completely soluble  |
| Log Pow                                    | : No data available          |
| Viscosity, kinematic                       | : No data available          |
| Viscosity, dynamic                         | : No data available          |
| Explosive properties                       | : No data available          |
| Oxidising properties                       | : No data available          |
| Explosive limits                           | : No data available.         |

#### 9.2. Other information

No additional information available.

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No additional information available.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

#### 10.4. Conditions to avoid

No additional information available.

#### 10.5. Incompatible materials

No additional information available.

#### 10.6. Hazardous decomposition products

Thermal decomposition generates: Fume. Carbon monoxide and carbon dioxide.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

|                |                                                                  |
|----------------|------------------------------------------------------------------|
| Acute toxicity | : Not classified                                                 |
|                | Based on available data the classification criteria are not met. |

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|               |              |
|---------------|--------------|
| LD50 oral rat | > 2000 mg/kg |
|---------------|--------------|

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| Triethanolamine (102-71-6) |                          |
|----------------------------|--------------------------|
| LD50 oral rat              | 4190 mg/kg               |
| LD50 dermal rabbit         | 1 ml/kg                  |
| ATE CLP (oral)             | 500,000 mg/kg bodyweight |

| Alcohols, C9-11, ethoxylated (68439-46-3) |                           |
|-------------------------------------------|---------------------------|
| LD50 oral rat                             | 1400 mg/kg                |
| LD50 dermal rabbit                        | > 20 ml/kg                |
| ATE CLP (oral)                            | 4190.000 mg/kg bodyweight |

|                                                     |                                                                                         |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------|
| Skin corrosion/irritation                           | : Repeated or prolonged skin contact may cause skin irritation<br>pH: 7.7 Approximately |
| Serious eye damage/irritation                       | : Moderately irritating to the eyes<br>pH: 7.7 Approximately                            |
| Respiratory or skin sensitisation                   | : Not classifiend<br>Based on available data, the classification criteria are not met   |
| Germ cell mutagenicity                              | : Not classifiend<br>Based on available data, the classification criteria are not met   |
| Carcinogenicity                                     | : Not classifiend<br>Based on available data, the classification criteria are not met   |
| Reproductive toxicity                               | : Not classifiend<br>Based on available data, the classification criteria are not met   |
| Specific target organ toxicity (single exposure)    | : Not classifiend<br>Based on available data, the classification criteria are not met   |
| Specific target organ toxicity (repeated exposure)  | : Not classifiend<br>Based on available data, the classification criteria are not met   |
| Aspiration hazard                                   | : Not classifiend<br>Based on available data, the classification criteria are not met   |
| Potential Adverse human health effects and symptoms | : Not classifiend<br>Based on available data, the classification criteria are not met.  |

## SECTION 12: Ecological information

### 12.1. Toxicity

|                   |                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ecology – general | : The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer. |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| Triethanolamine (102-71-6)     |                                                                                        |
|--------------------------------|----------------------------------------------------------------------------------------|
| LC50 fishes 1                  | 10600 – 13000 mg/l (Exposure time: 96 h - Species: Pimephales promelas [Flow-through]) |
| EC50 other aquatic organisms 1 | 216 mg/l (Exposure time: 72 h - Species: Desmodesmus subspicatus)                      |
| LC50 fish 2                    | > 1000 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [Static])                |
| EC50 other aquatic organisms 2 | 169 mg/l (Exposure time: 96 h - Species: Desmodesmus subspicatus)                      |

### 12.2. Persistence and degradability

| Prolystica® 2X Concentrate Neutral Detergent |                  |
|----------------------------------------------|------------------|
| Persistence and degradability                | Not established. |

### 12.3. Bioaccumulative potential

| Prolystica® 2X Concentrate Neutral Detergent |                  |
|----------------------------------------------|------------------|
| Bioaccumulative potential                    | Not established. |

| Triethanolamine (102-71-6) |       |
|----------------------------|-------|
| BCF fish 1                 | < 3.9 |
| Log Pow                    | -2.53 |

### 12.4. Mobility in soil

No additional information available.

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### 12.5. Results of PBT and vPvB assessment

No additional information available.

### 12.6. Other adverse effects

: Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste disposal recommendations : Product may be flushed to a sanitary sewer with copious amounts of water, if in accordance with local, state or national legislation. Dispose in a safe manner in accordance with local/national regulations. Do not allow to enter into surface water or drains. Ensure all national/local regulations are observed.

Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

### 14.1. UN number

No dangerous good in sense of transport regulations.

### 14.2. UN proper shipping name

Not applicable.

### 14.3. Transport hazard class(es)

Not applicable.

### 14.4. Packing group

Not applicable.

### 14.5. Environmental hazards

Dangerous for the environment : No

Marine pollutant : No

Other information : No supplementary information available.

### 14.6. Special precautions for user

#### 14.6.1. Overland transport

Transport category (ADR) : Non-hazardous.

#### 14.6.2. Transport by sea

IMDG Class : Non-hazardous.

#### 14.6.3. Air transport

ICAO/IATA Class : Non-hazardous.

#### 14.6.4. Inland waterway transport

No additional information available.

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

Contains no REACH candidate substance.

#### 15.1.2. National regulations

No additional information available.

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

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### SECTION 16: Other information

Revision Date : 05/08/2015

Sources of Key Data : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

None

Full text of R-, H- and EUH-phrases:

|                     |                                                             |
|---------------------|-------------------------------------------------------------|
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4                           |
| Eye Dam. 1          | Serious eye damage/eye irritation, Category 1               |
| Eye Irrit. 2        | Serious eye damage/eye irritation, Category 2               |
| Skin Irrit. 2       | Skin corrosion/irritation Category 2                        |
| STOT SE 3           | Specific target organ toxicity (single exposure) Category 3 |
| H302                | Harmful if swallowed                                        |
| H315                | Causes skin irritation                                      |
| H316                | Causes mild skin irritation                                 |
| H318                | Causes serious eye damage                                   |
| H319                | Causes serious eye irritation                               |
| H320                | Causes eye irritation                                       |
| H335                | May cause respiratory irritation                            |
| R22                 | Harmful if swallowed                                        |
| R36                 | Irritating to eyes                                          |
| R36/38              | Irritating to eyes and skin                                 |
| R41                 | Risk of serious damage to eyes                              |
| Xi                  | Irritant                                                    |
| Xn                  | Harmful                                                     |

SDS EU (REACH Annex II)

*The information on this sheet is not a specification and does not guarantee specific properties. The information is intended to provide general knowledge as to health and safety based upon our knowledge of the handling, storage and use of the product. It is not applicable to unusual or non-standard uses of the product or where instruction or recommendations are not followed.*