

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 27.04.2019

Revision: 27.04.2019

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name:** MICROCLEAN 100-X**Registration number** Mixture**1.2 Relevant identified uses of the substance or mixture and uses advised against****Product category** PC35 Washing and cleaning products (including solvent based products)**Application of the substance / the mixture** Cleaner**Uses advised against**

Processes involving extreme heat use advised against.

Any use carrying a risk of direct contact with eyes/skin where workers are exposed without adequate personal protective equipment (PPE).

Any use involving aerosol formation or vapour or dust release in excess of the assigned workplace exposure limits where workers are exposed without suitable respiratory protective equipment (RPE).

The product is intended exclusively for industrial and professional use.

**1.3 Details of the supplier of the safety data sheet****Manufacturer/Supplier:**[Pennine Lubricants Ltd](#)[32 Atlas Way](#)[Sheffield](#)[S4 7QQ](#)[Tel: 0114 285 2987](#)[Email: Admin@penninelubricants.co.uk](#)**Further information obtainable from:** Product safety department.**1.4 Emergency telephone number:** 0114 285 2987 (not 24hrs)**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008**

GHS05 corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

STOT SE 3 H335 May cause respiratory irritation.

**2.2 Label elements****Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

**Hazard pictograms** GHS05, GHS07**Signal word** Danger**Hazard-determining components of labelling:**

2-Aminoethanol

Tetrasodium ethylenediaminetetraacetate

A mixture of: 2-ethylhexyl mono-D-glucopyranoside and 2-ethylhexyl di-D-glucopyranoside

**Hazard statements**

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

**Precautionary statements**

P260 Do not breathe mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

(Contd. on page 2)

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 27.04.2019

Revision: 27.04.2019

**Trade name:** MICROCLEAN 100-X

(Contd. of page 1)

P332+P313 If skin irritation occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

**2.3 Other hazards****Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

**3.2 Chemical characterisation: Mixtures****Description:** Mixture of substances listed below with nonhazardous additions.**Dangerous components:**

|                                          |                                                                                                                        |           |
|------------------------------------------|------------------------------------------------------------------------------------------------------------------------|-----------|
| CAS: 154518-36-2<br>EC number: 685-127-5 | Alcohols, C9-11-iso, C10-reach, ethoxylated, propoxylated<br>⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319                 | >2.5- 10% |
| CAS: 141-43-5<br>EINECS: 205-483-3       | 2-Aminoethanol<br>⚠ Skin Corr. 1B, H314; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; STOT SE 3, H335 | >2.5- 10% |
| CAS: 64-02-8<br>EINECS: 200-573-9        | Tetrasodium ethylenediaminetetraacetate<br>⚠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332                | >2.5- 10% |
| ELINCS: 414-420-0                        | A mixture of: 2-ethylhexyl mono-D-glucopyranoside and 2-ethylhexyl di-D-glucopyranoside<br>⚠ Eye Dam. 1, H318          | 2.5%      |

**Additional information:** For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

**4.1 Description of first aid measures****General information:** Immediately remove any clothing soiled by the product.**After inhalation:** Supply fresh air; consult doctor in case of complaints.**After skin contact:**

DO NOT DELAY!

Immediately rinse with water.

If skin irritation continues, consult a doctor.

**After eye contact:**

DO NOT DELAY!

Check for and remove any contact lenses.

Rinse opened eye for several minutes under running water. Then consult a doctor.

**After swallowing:**

DO NOT DELAY!

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

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

No further relevant information available.

**Information for doctor:** Treat symptomatically and supportively.**4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

### SECTION 5: Firefighting measures

**5.1 Extinguishing media****Suitable extinguishing agents:**CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

(Contd. on page 3)

## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 27.04.2019

Revision: 27.04.2019

Trade name: MICROCLEAN 100-X

(Contd. of page 2)

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

During heating or in case of fire poisonous gases are produced.

**5.3 Advice for firefighters****Protective equipment:**

Wear self-contained respiratory protective device.

Wear fully protective suit.

Do not inhale explosion gases or combustion gases.

**Additional information** Cool endangered receptacles with water spray.**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation

Wear protective clothing.

**6.2 Environmental precautions:**

Do not allow to penetrate the ground/soil.

Do not allow product to reach sewage system or any water course in the undiluted form.

**6.3 Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Send for recovery or disposal in suitable receptacles.

**6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

Prevent formation of aerosols.

Ensure good ventilation/exhaustion at the workplace.

Do not mix with other chemical formulations in their concentrated form.

**Information about fire - and explosion protection:** No special measures required.**7.2 Conditions for safe storage, including any incompatibilities****Storage:****Requirements to be met by storerooms and receptacles:**

Prevent any seepage into the ground.

Do not store in aluminium or galvanised containers.

**Information about storage in one common storage facility:** Store away from oxidising agents.**Further information about storage conditions:**

Store in cool, dry conditions in well sealed receptacles.

Protect from frost.

Protect from heat and direct sunlight.

**7.3 Specific end use(s)** No further relevant information available.**SECTION 8: Exposure controls/personal protection****Additional information about design of technical facilities:** No further data; see item 7.**8.1 Control parameters****Ingredients with limit values that require monitoring at the workplace:****141-43-5 2-Aminoethanol**

|     |                                                 |
|-----|-------------------------------------------------|
| WEL | Short-term value: 7.6 mg/m <sup>3</sup> , 3 ppm |
|     | Long-term value: 2.5 mg/m <sup>3</sup> , 1 ppm  |
| Sk  |                                                 |

(Contd. on page 4)

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 27.04.2019

Revision: 27.04.2019

Trade name: MICROCLEAN 100-X

(Contd. of page 3)

**Additional information:** The lists valid during the making were used as basis.

### 8.2 Exposure controls

#### Personal protective equipment:

Select PPE appropriate for the operations taking place taking into account the product properties.

#### General protective and hygienic measures:

Do not eat, drink, smoke or sniff while working.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Take note of assigned Workplace Exposure Limits.

**Respiratory protection:** Use suitable respiratory protective device in case of insufficient ventilation.

#### Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

#### Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product 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.

#### Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

#### Eye protection:



Tightly sealed goggles

#### Body protection:

Impervious protective clothing

Body protection must be chosen depending on activity, possible exposure and product properties.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### General Information

##### Appearance:

|                  |                 |
|------------------|-----------------|
| Form:            | Liquid          |
| Colour:          | Light yellow    |
| Odour:           | Mild            |
| Odour threshold: | Not determined. |

pH-value: ~11.5

#### Change in condition

|                                          |               |
|------------------------------------------|---------------|
| Melting point/freezing point:            | Undetermined. |
| Initial boiling point and boiling range: | Undetermined. |

Flash point: Not applicable.

Flammability (solid, gas): Not applicable.

Decomposition temperature: Not determined.

Auto-ignition temperature: Product is not self-igniting.

Explosive properties: Product does not present an explosion hazard.

#### Explosion limits:

Lower: Not determined.

(Contd. on page 5)

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 27.04.2019

Revision: 27.04.2019

**Trade name:** MICROCLEAN 100-X

(Contd. of page 4)

|                                                |                                                                                                            |
|------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| <b>Upper:</b>                                  | Not determined.                                                                                            |
| <b>Vapour pressure:</b>                        | Not determined.                                                                                            |
| <b>Density:</b>                                | Not determined.                                                                                            |
| <b>Relative density</b>                        | Not determined.                                                                                            |
| <b>Vapour density</b>                          | Not determined.                                                                                            |
| <b>Evaporation rate</b>                        | Not determined.                                                                                            |
| <b>Solubility in / Miscibility with water:</b> | Fully miscible.                                                                                            |
| <b>Partition coefficient: n-octanol/water:</b> | Not determined.                                                                                            |
| <b>Viscosity:</b>                              |                                                                                                            |
| <b>Dynamic:</b>                                | Not determined.                                                                                            |
| <b>Kinematic:</b>                              | Not determined.                                                                                            |
| <b>9.2 Other information</b>                   | NOTE: The physical data presented above are typical values and should not be construed as a specification. |

## SECTION 10: Stability and reactivity

**10.1 Reactivity** No further relevant information available.**10.2 Chemical stability****Thermal decomposition / conditions to be avoided:**

No decomposition if used and stored according to specifications.

**10.3 Possibility of hazardous reactions** No dangerous reactions known.**10.4 Conditions to avoid** No further relevant information available.**10.5 Incompatible materials:**

Strong acids.

Strong oxidising agents.

Do not mix with other chemical formulations in their concentrated form.

**10.6 Hazardous decomposition products:**

Carbon monoxide and carbon dioxide

Nitrogen oxides (NO<sub>x</sub>)

## SECTION 11: Toxicological information

**11.1 Information on toxicological effects****Acute toxicity** Based on available data, the classification criteria are not met.**Primary irritant effect:****Skin corrosion/irritation**

Causes severe skin burns and eye damage.

**Serious eye damage/irritation**

Causes serious eye damage.

**Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.**Additional toxicological information:**

ROUTES OF EXPOSURE: The component substances can variously be absorbed into the body by inhalation and by ingestion.

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)****Germ cell mutagenicity** Based on available data, the classification criteria are not met.**Carcinogenicity** Based on available data, the classification criteria are not met.**Reproductive toxicity** Based on available data, the classification criteria are not met.**STOT-single exposure**

May cause respiratory irritation.

**STOT-repeated exposure** Based on available data, the classification criteria are not met.

(Contd. on page 6)

## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 27.04.2019

Revision: 27.04.2019

Trade name: MICROCLEAN 100-X

**Aspiration hazard** Based on available data, the classification criteria are not met.

(Contd. of page 5)

## SECTION 12: Ecological information

### 12.1 Toxicity

**Aquatic toxicity:** No further relevant information available.

**12.2 Persistence and degradability** The organic portion of the product is biodegradable.

**12.3 Bioaccumulative potential** Product is not expected to bioaccumulate.

**12.4 Mobility in soil** No further relevant information available.

### Additional ecological information:

#### General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

### 12.5 Results of PBT and vPvB assessment

**PBT:** Not applicable.

**vPvB:** Not applicable.

**12.6 Other adverse effects** No further relevant information available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Recommendation

Recommended Hierarchy of Controls:

- Minimise waste;
- Reuse if not contaminated;
- Recycle, if possible; or
- Safe disposal (if all else fails).

Contact waste processors for recycling information.

Used, degraded or contaminated product may be classified as hazardous waste. Anyone classifying hazardous waste and determining its fate must be qualified in accordance with state and international legislation.

#### European waste catalogue

Waste key numbers in accordance with the European Waste Catalogue (EWC) are origin-referred defined. Since this product is used in several industries, no waste key can be provided by the supplier. The waste key number should be determined in arrangement with your waste disposal partner or the responsible authority.

#### Uncleaned packaging:

##### Recommendation:

Disposal must be made according to official regulations.

Container remains hazardous when empty. Continue to observe all precautions.

Containers, even those that are "empty," may contain residues that can develop flammable and/or hazardous vapours upon heating. Do not cut, drill, grind, weld, or perform similar operations on or near empty containers.

**Recommended cleansing agents:** Water, if necessary together with cleansing agents.

## SECTION 14: Transport information

**14.1 UN-Number**  
ADR, IMDG, IATA

UN1760

**14.2 UN proper shipping name**  
ADR

1 7 6 0 C O R R O S I V E L I Q U I D , N . O . S .  
(ETHANOLAMINE)  
CORROSIVE LIQUID, N.O.S. (ETHANOLAMINE)

IMDG, IATA

(Contd. on page 7)

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 27.04.2019

Revision: 27.04.2019

Trade name: MICROCLEAN 100-X

(Contd. of page 6)

**14.3 Transport hazard class(es)**

ADR, IMDG, IATA



|              |                         |
|--------------|-------------------------|
| <b>Class</b> | 8 Corrosive substances. |
| <b>Label</b> | 8                       |

**14.4 Packing group**

ADR, IMDG, IATA III

**14.5 Environmental hazards:**

Marine pollutant: No

**14.6 Special precautions for user**

|                              |                                |
|------------------------------|--------------------------------|
| <b>Danger code (Kemler):</b> | Warning: Corrosive substances. |
| <b>EMS Number:</b>           | 80                             |
| <b>Segregation groups</b>    | F-A,S-B                        |
| <b>Stowage Category</b>      | Alkalies                       |
| <b>Stowage Code</b>          | B                              |
|                              | SW2 Clear of living quarters.  |

**14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable.

**Transport/Additional information:****ADR**

|                                 |                                                   |
|---------------------------------|---------------------------------------------------|
| <b>Limited quantities (LQ)</b>  | 5L                                                |
| <b>Excepted quantities (EQ)</b> | Code: E1                                          |
|                                 | Maximum net quantity per inner packaging: 30 ml   |
|                                 | Maximum net quantity per outer packaging: 1000 ml |
| <b>Transport category</b>       | 3                                                 |
| <b>Tunnel restriction code</b>  | E                                                 |

**IMDG**

|                                 |                                                   |
|---------------------------------|---------------------------------------------------|
| <b>Limited quantities (LQ)</b>  | 5L                                                |
| <b>Excepted quantities (EQ)</b> | Code: E1                                          |
|                                 | Maximum net quantity per inner packaging: 30 ml   |
|                                 | Maximum net quantity per outer packaging: 1000 ml |

|                               |                                                         |
|-------------------------------|---------------------------------------------------------|
| <b>UN "Model Regulation":</b> | UN 1760 CORROSIVE LIQUID, N.O.S. (ETHANOLAMINE), 8, III |
|-------------------------------|---------------------------------------------------------|

### SECTION 15: Regulatory information

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

REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

**15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Relevant phrases**

H302 Harmful if swallowed.  
 H312 Harmful in contact with skin.  
 H314 Causes severe skin burns and eye damage.

(Contd. on page 8)

## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 27.04.2019

Revision: 27.04.2019

**Trade name:** MICROCLEAN 100-X

(Contd. of page 7)

H315 Causes skin irritation.  
 H318 Causes serious eye damage.  
 H319 Causes serious eye irritation.  
 H332 Harmful if inhaled.  
 H335 May cause respiratory irritation.

**Department issuing SDS:** Product safety department.**Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
 IMDG: International Maritime Code for Dangerous Goods  
 IATA: International Air Transport Association  
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 ELINCS: European List of Notified Chemical Substances  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 PBT: Persistent, Bioaccumulative and Toxic  
 vPvB: very Persistent and very Bioaccumulative  
 Acute Tox. 4: Acute toxicity – Category 4  
 Skin Corr. 1B: Skin corrosion/irritation – Category 1B  
 Skin Irrit. 2: Skin corrosion/irritation – Category 2  
 Eye Dam. 1: Serious eye damage/eye irritation – Category 1  
 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

## Annex: Exposure scenario

**Product category** PC35 Washing and cleaning products (including solvent based products)**Description of the activities / processes covered in the Exposure Scenario**

See section 1 of the annex to the Safety Data Sheet.

**Conditions of use****Duration and frequency** 5 workdays/week.**Physical parameters****Physical state** Fluid**Concentration of the substance in the mixture** The substance is main component.**Other operational conditions****Other operational conditions affecting environmental exposure** No special measures required.**Other operational conditions affecting worker exposure**

Avoid contact with eyes.

Avoid contact with the skin.

**Other operational conditions affecting consumer exposure** No special measures required.**Other operational conditions affecting consumer exposure during the use of the product** Not applicable.**Risk management measures****Worker protection****Organisational protective measures** No special measures required.**Technical protective measures** Ensure that suitable extractors are available on processing machines**Personal protective measures**

Do not inhale gases / fumes / aerosols.

Avoid contact with the skin.

Avoid contact with the eyes.

Tightly sealed goggles

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Use suitable respiratory protective device in case of insufficient ventilation.

**Measures for consumer protection** Ensure adequate labelling.**Environmental protection measures****Water**

Generally, prior to the introduction of wastewater into wastewater treatment plants a neutralisation is required.

**Disposal measures** Ensure that waste is collected and contained.**Disposal procedures**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

(Contd. on page 9)

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 27.04.2019

Revision: 27.04.2019

**Trade name:** MICROCLEAN 100-X

(Contd. of page 8)

**Waste type** Partially emptied and uncleaned packaging**Exposure estimation****Consumer** Not relevant for this Exposure Scenario.**Guidance for downstream users** No further relevant information available.

GB