SAFETY DATA SHEET

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

1.1. Product identifier
Trade name or designation of the mixture Perkins ELC(Extended Life Coolant) Premix 50/50 with Embitterment
Registration number -
Synonyms None.
Product code 1002881
Issue date 19-August-2016
Version number 02
Revision date 22-October-2018
Supersedes date 19-August-2016

1.2. Relevant identified uses of the substance or mixture and uses advised against
Identified uses Antifreeze / Coolant.
Uses advised against None known.

1.3. Details of the supplier of the safety data sheet
Supplier ARTECO NV
Metropoolstraat 25
B-2900 Schoten (Antwerpen)
Belgium
e-mail customerservice@arteco-coolants.com
Product information Technical Information: +32 (0) 9 397 06 00

1.4. Emergency telephone number
Transportation emergency Europe: +44 20 35147487 (24hr) Access code: 335087
Health Emergency Europe: +44 20 35147487 (24hr) Access code: 335087
General in EU 112 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended

Health hazards
Specific target organ toxicity - repeated exposure Category 2 (kidney) H373 - May cause damage to organs (kidney) through prolonged or repeated exposure.

Hazard summary May cause damage to organs through prolonged or repeated exposure. Occupational exposure to the substance or mixture may cause adverse health effects.

2.2. Label elements
Label according to Regulation (EC) No. 1272/2008 as amended
Contains: Ethylene glycol
Hazard pictograms

Signal word Warning
Hazard statements H373 May cause damage to organs (kidney) through prolonged or repeated exposure.
Precautionary statements

Prevention
- P102 Keep out of reach of children.
- P260 Do not breathe dust/fume/gas/mist/vapours/spray.

Response
- P101 If medical advice is needed, have product container or label at hand.
- P301 + P310 IF SWALLOWED: Immediately call a POISON CENTRE/doctor.

Storage
- Not assigned.

Disposal
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental label information
- None.

2.3. Other hazards
- Not a PBT or vPvB substance or mixture.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>%</th>
<th>CAS-No. / EC No.</th>
<th>REACH Registration No.</th>
<th>Index No.</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene glycol</td>
<td>≥ 34 - &lt; 80</td>
<td>107-21-1</td>
<td>01-2119456816-28-XXXX</td>
<td>-</td>
<td>#</td>
</tr>
<tr>
<td>Classification:</td>
<td></td>
<td>Acute Tox. 4;H302, STOT RE 2;H373</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Sodium 2-ethylhexanoate     | 0.1 - < 3 | 19766-89-3       | Exempt                 | -         | E     |
| Classification:             |          | 243-283-8        |

| Sodium molybdate dihydrate | < 0.2   | 10102-40-6       | 01-2119489495-21-XXXX  | -         |       |
| Classification:             |          | 231-551-7        |

List of abbreviations and symbols that may be used above
- #: This substance has been assigned Union workplace exposure limit(s).
- E: Exempted from registration as per Annex V of the Regulation 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

This product contains a bittering agent.

SECTION 4: First aid measures

General information
- IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

4.1. Description of first aid measures

Inhalation
- Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact
- Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact
- Rinse with water. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion
- Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical advice/attention if you feel unwell.

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

4.3. Indication of any immediate medical attention and special treatment needed
- Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

SECTION 5: Firefighting measures

General fire hazards
- No unusual fire or explosion hazards noted.

5.1. Extinguishing media

Suitable extinguishing media
- Alcohol resistant foam. Powder. Carbon dioxide (CO2).

Unsuitable extinguishing media
- Do not use water jet as an extinguisher, as this will spread the fire.
Thermal decomposition may produce smoke, oxides of carbon and lower molecular weight organic compounds whose composition have not been characterised.

5.2. Special hazards arising from the substance or mixture

5.3. Advice for firefighters

Special protective equipment for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Special fire fighting procedures

Move containers from fire area if you can do so without risk.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapour. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.

For emergency responders

Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.

6.2. Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use.

6.4. Reference to other sections

For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Do not breathe mist or vapour. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Antifreeze / Coolant.

7.3. Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

UK. EH40 Workplace Exposure Limits (WELs)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene glycol (CAS 107-21-1)</td>
<td>STEL</td>
<td>104 mg/m3</td>
<td>Vapour.</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>40 ppm</td>
<td>Vapour.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>52 mg/m3</td>
<td>Vapour.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10 mg/m3</td>
<td>Particulate.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>20 ppm</td>
<td>Vapour.</td>
</tr>
<tr>
<td>Sodium molybdate dihydrate (CAS 10102-40-6)</td>
<td>STEL</td>
<td>10 mg/m3</td>
<td>Vapour.</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>5 mg/m3</td>
<td></td>
</tr>
</tbody>
</table>


<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene glycol (CAS 107-21-1)</td>
<td>STEL</td>
<td>104 mg/m3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>40 ppm</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>52 mg/m3</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>20 ppm</td>
<td></td>
</tr>
</tbody>
</table>

Biological limit values

No biological exposure limits noted for the ingredient(s).
Follow standard monitoring procedures.

**Derived no effect levels (DNELs)**

### General Population

<table>
<thead>
<tr>
<th>Components</th>
<th>Value</th>
<th>Assessment factor</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene glycol (CAS 107-21-1)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Long-term, Systemic, Dermal</td>
<td>53 mg/kg bw/day</td>
<td>84</td>
<td>Repeated dose toxicity</td>
</tr>
<tr>
<td>Short-term, Systemic, Inhalation</td>
<td>7 mg/m³</td>
<td>10</td>
<td>Skin irritation/corrosion</td>
</tr>
<tr>
<td>Sodium molybdate dihydrate (CAS 10102-40-6)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Long-term, Systemic, Inhalation</td>
<td>7.15 mg/m³</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Long-term, Systemic, Oral</td>
<td>7.3 mg/kg/day</td>
<td>5</td>
<td></td>
</tr>
</tbody>
</table>

### Workers

<table>
<thead>
<tr>
<th>Components</th>
<th>Value</th>
<th>Assessment factor</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene glycol (CAS 107-21-1)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Long-term, Systemic, Dermal</td>
<td>106 mg/kg bw/day</td>
<td>42</td>
<td>Repeated dose toxicity</td>
</tr>
<tr>
<td>Short-term, Systemic, Inhalation</td>
<td>35 mg/m³</td>
<td>2</td>
<td>Skin irritation/corrosion</td>
</tr>
<tr>
<td>Sodium molybdate dihydrate (CAS 10102-40-6)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Long-term, Systemic, Inhalation</td>
<td>23.97 mg/m³</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

### Predicted no effect concentrations (PNECs)

<table>
<thead>
<tr>
<th>Components</th>
<th>Value</th>
<th>Assessment factor</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene glycol (CAS 107-21-1)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Freshwater</td>
<td>10 mg/l</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>Marine water</td>
<td>1 mg/l</td>
<td>100</td>
<td></td>
</tr>
<tr>
<td>Sediment (freshwater)</td>
<td>37 mg/kg</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sediment (marine water)</td>
<td>3.7 mg/kg</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Soil</td>
<td>1.53 mg/kg</td>
<td></td>
<td></td>
</tr>
<tr>
<td>STP</td>
<td>199.5 mg/l</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>Sodium molybdate dihydrate (CAS 10102-40-6)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Freshwater</td>
<td>27.25 mg/l</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Marine water</td>
<td>4.87 mg/l</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Sediment (freshwater)</td>
<td>48500 mg/kg</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Sediment (marine water)</td>
<td>5058 mg/kg</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Soil</td>
<td>20.39 mg/kg</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>STP</td>
<td>46.57 mg/l</td>
<td>10</td>
<td></td>
</tr>
</tbody>
</table>

**Exposure guidelines**

**UK EH40 WEL: Skin designation**

Ethylene glycol (CAS 107-21-1) Can be absorbed through the skin.

### 8.2 Exposure controls

**Appropriate engineering controls**

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

**Individual protection measures, such as personal protective equipment**

**General information**

Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

**Eye/face protection**

Chemical respirator with organic vapour cartridge and full facepiece.

**Skin protection**

- **Hand protection**
  
  Wear appropriate chemical resistant gloves. Wear suitable gloves tested to EN374. Full contact: Use gloves classified protection index 6 with breakthrough time of 480 minutes. Minimum glove thickness 0.38 mm. Neoprene, butyl rubber, nitrile or Viton gloves are recommended. Suitable gloves can be recommended by the glove supplier.

- **Other**
  
  Wash hands thoroughly after handling. Use of an impervious apron is recommended.

**Respiratory protection**

Chemical respirator with organic vapour cartridge and full facepiece.

**Thermal hazards**

Wear appropriate thermal protective clothing, when necessary.

**Hygiene measures**

Observe any medical surveillance requirements. Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

**Environmental exposure controls**

Environmental manager must be informed of all major releases.
### SECTION 9: Physical and chemical properties

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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value/Characteristics</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Appearance</strong></td>
<td></td>
</tr>
<tr>
<td>Physical state</td>
<td>Liquid.</td>
</tr>
<tr>
<td>Form</td>
<td>Clear liquid.</td>
</tr>
<tr>
<td>Colour</td>
<td>Red.</td>
</tr>
<tr>
<td>Odour</td>
<td>Mild.</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>Not determined.</td>
</tr>
<tr>
<td>pH</td>
<td>8.25 - 8.60 (20°C)</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>Not determined. / -36 °C (-32.8 °F)</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>109 °C (228.2 °F) (Estimated)</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td></td>
</tr>
<tr>
<td>Flammability limit - lower (%)</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Flammability limit - upper (%)</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Vapour density</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Relative density</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>Miscible.</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td></td>
</tr>
<tr>
<td>(n-octanol/water)</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Not explosive.</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>Not oxidising.</td>
</tr>
</tbody>
</table>

#### 9.2. Other information

- **Density**: 1.070 kg/l (20 °C) (Typical)

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

#### 10.2. Chemical stability

Material is stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

#### 10.4. Conditions to avoid

Contact with incompatible materials.

#### 10.5. Incompatible materials

- Strong acids.
- Strong oxidising agents.
- Nitrates.
- Peroxides.
- Chlorates.

#### 10.6. Hazardous decomposition products

At elevated temperatures: Ketones. Aldehydes.

### SECTION 11: Toxicological information

#### General information

Occupational exposure to the substance or mixture may cause adverse effects.

#### Information on likely routes of exposure

<table>
<thead>
<tr>
<th>Route</th>
<th>Effects</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalation</td>
<td>In high concentrations, mists/vapours may irritate throat and respiratory system and cause coughing.</td>
</tr>
<tr>
<td>Skin contact</td>
<td>Prolonged or repeated contact may dry skin and cause irritation.</td>
</tr>
<tr>
<td>Eye contact</td>
<td>Direct contact with eyes may cause temporary irritation.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>Ingestion of ethylene glycol may result in nausea, vomiting, abdominal cramps, blindness, liver damage, irritation, reproductive effects, nerve damage, convulsions, oedema of the lung, cardiopulmonary effects (metabolic acidosis), pneumonia and kidney failure which could result in death. The single lethal dose for humans is about 100 ml. Inhalation of high levels of vapour or mists for prolonged periods of time may also result in toxic effects.</td>
</tr>
</tbody>
</table>

#### Symptoms

11.1. Information on toxicological effects

Acute toxicity

<table>
<thead>
<tr>
<th>Product</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Perkins ELC(Extended Life Coolant) Premix 50/50 with Embitterment (CAS -)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Acute**

**Oral**

- 3278 mg/kg ATE

**Components**

<table>
<thead>
<tr>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene glycol (CAS 107-21-1)</td>
<td></td>
</tr>
</tbody>
</table>

**Acute**

**Dermal**

- LD50 Mouse > 3500 mg/kg

**Inhalation**

- LC50 Rat > 2.5 mg/l, 6 Hours

**Oral**

- LD50 Cat 1600 mg/kg

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

Skin corrosion/irritation

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

Serious eye damage/eye irritation

Respiratory sensitisation

Due to partial or complete lack of data the classification is not possible.

Skin sensitisation

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

Germ cell mutagenicity

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

Carcinogenicity

Due to partial or complete lack of data the classification is not possible.

Reproductive toxicity

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

Specific target organ toxicity - single exposure

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

Specific target organ toxicity - repeated exposure

May cause damage to organs (kidney) through prolonged or repeated exposure.

Aspiration hazard

Due to partial or complete lack of data the classification is not possible.

Mixture versus substance information

No information available.

Other information

No data available.

SECTION 12: Ecological information

12.1. Toxicity

Based on available data, the classification criteria are not met for hazardous to the aquatic environment.

<table>
<thead>
<tr>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene glycol (CAS 107-21-1)</td>
<td></td>
</tr>
</tbody>
</table>

**Aquatic**

**Crustacea**

- EC50 Daphnia magna > 100 mg/l, 48 Hours

**Fish**

- LC50 Fathead minnow (Pimephales promelas) 72860 mg/l, 96 hours

12.2. Persistence and degradability

Expected to be readily biodegradable.

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

| Ethylene glycol (CAS 107-21-1) | -1.36 |

Bioconcentration factor (BCF)

Not available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

Not a PBT or vPvB substance or mixture.

12.6. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Residual waste
Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging
Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

EU waste code
EWC: 16 01 14

Disposal methods/information
Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

Special precautions
Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR
14.1. - 14.6.: Not regulated as dangerous goods.

RID
14.1. - 14.6.: Not regulated as dangerous goods.

ADN
14.1. - 14.6.: Not regulated as dangerous goods.

IATA
14.1. - 14.6.: Not regulated as dangerous goods.

IMDG
14.1. - 14.6.: Not regulated as dangerous goods.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not established.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
EU regulations
- Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended
  Not listed.
  Not listed.
- Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended
  Not listed.
- Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended
  Not listed.
- Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended
  Not listed.
- Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended
  Not listed.
  Not listed.
- Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA
  Not listed.

Authorisations
- Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended
  Not listed.

Restrictions on use
- Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended
  Not listed.
- Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.
  Not listed.

Other EU regulations
- Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended
  Not listed.
The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

All components of this product are compliant with the registration requirements of Regulation (EC) 1907/2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals, as amended.

All components comply with the following chemical inventory requirements: AICS (Australia), DSL (Canada), EINECS (European Union), ENCS (Japan), IECSC (China), KECI (Korea), PICCS (Philippines), TSCA (United States), TCSI (Taiwan), NZIoC (New Zealand).

Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as amended. Young people under 18 years old are not allowed to work with this product according to EU Directive 94/33/EC on the protection of young people at work, as amended.

No Chemical Safety Assessment has been carried out.

**SECTION 16: Other information**

**List of abbreviations**

- TWA: Time weighted average.
- STEL: Short term exposure limit.
- DNEL: Derived No-Effect Level.
- PNEC: Predicted No-Effect Concentration.
- STP: Sewage treatment plant.
- LD50: Lethal Dose, 50%.
- EC50: Effective Concentration, 50%.
- LC50: Lethal Concentration, 50%.
- PBT: Persistent, bioaccumulative and toxic.
- vPvB: Very Persistent and very Bioaccumulative.

**References**

ECHA CHEM

Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

Full text of any H-statements not written out in full under Sections 2 to 15

H302 Harmful if swallowed.
H361d Suspected of damaging the unborn child.
H373 May cause damage to organs through prolonged or repeated exposure by ingestion.

This SDS contains revisions in the following section(s):

1

**Training information**

Follow training instructions when handling this material.

**Disclaimer**

ARTECO NV cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user’s responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.