# Section 1. Identification of the substance/mixture and of the company/undertaking

## 1.1. Product Identifier:

<table>
<thead>
<tr>
<th>Trade name or designation of mixture:</th>
<th>Purolite® C107E</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC Number:</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Registration Number:</td>
<td>This mixture is exempted from Registration according to the provisions of Title IIand VI and Article 2(9) of REACH.</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Identified uses:</th>
<th>Ion Exchange, Adsorbent, and/or Catalyst</th>
</tr>
</thead>
<tbody>
<tr>
<td>Uses advised against:</td>
<td>None Known</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Supplier:</th>
<th>Purolite Ltd.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Llantrisant Business Park, Llantrisant, Wales, UK CF72 8LF</td>
<td>Tel:+44 1443 229334</td>
</tr>
<tr>
<td>Fax:+44 1443 227073</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Manufacturer:</th>
<th>Purolite S.R.L.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Str.Aleea Uzinei nr.11, 505700 Victoria, Judetul Brasov, Romania</td>
<td>Tel:+40 2682 43004</td>
</tr>
<tr>
<td>Fax:+40 2682 43002</td>
<td></td>
</tr>
</tbody>
</table>

| Purolite (China) Co. Limited |
| Qianlong Economic Development Zone, Qianyuan Town, Deqing County, Huzhou City, Zhejiang, China 313216 |
| Tel:+86 572 8422908 |
| Fax:+86 572 8425345 |

<table>
<thead>
<tr>
<th>Contact Person:</th>
<th>Ken Shaner</th>
</tr>
</thead>
<tbody>
<tr>
<td>Email:</td>
<td><a href="mailto:msds@purolite.com">msds@purolite.com</a></td>
</tr>
</tbody>
</table>

## 1.4. Emergency Telephone Number:

| +1 866 387 7344 |
| +1760 602 8703 |
Section 2. Hazards identification

2.1 Classification of the substance or mixture
Classification according to Directive 67/548/EEC or 1999/45/EC as amended: This preparation is not classified as dangerous according to Directive 1999/45/EC and its amendments.

2.1.1 Classification according to Regulation (EC) No 1272/2008 as amended
Hazard summary
Physical hazards Not classified for physical hazards.
Health hazards Not classified for health hazards.
Environmental hazards Not classified for hazards of the environment.
Specific hazards Direct contact with eyes may cause temporary irritation.
Main symptoms Under normal conditions of intended use, this material does not pose a risk to health.

2.2 Label elements
Label according to Regulation (EC) No. 1272/2008 as amended
Hazard statements The mixture does not meet the criteria for classification.
Precautionary Statements
Prevention Use personal protective equipment as required.
Response Get medical advice/attention if you feel unwell.
Storage Store away from incompatible materials.
Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.
Supplemental label information None.

2.3 Other hazards
Not assigned.

Section 3. Composition/information on ingredients

3.1 Substance
Not applicable.

3.2 Mixture
General Information

3.2.1 Not applicable.

3.2.2 Chemical name% CAS No. / EC No.REACH Index No. Notes Registration No.

Polyacrylic acid 42 - 569052-45-3
Classification: DSD:
CLP:
Water 44 - 587732-18-5 231-791-2

Classification: DSD:
CLP:
DSD: Directive 67/548/EEC.

Composition comments
The full text for all R- and H-phrases is displayed in section 16. All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.
Section 4. First aid measures

General Information
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.

4.1 Description of first aid measures

4.1.1 Inhalation
Move into fresh air and keep at rest. Get medical attention if any discomfort continues.

4.1.2 Skin contact
Wash off immediately with soap and plenty of water. If irritation persists get medical attention.

4.1.3 Eye contact
Flush thoroughly with water for at least 15 minutes. Get medical attention if irritation develops and persists.

4.1.4 Ingestion
Rinse mouth thoroughly. Never give liquid to an unconscious person. Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn’t enter the lungs. Get medical attention if any discomfort continues.

4.2 Most important symptoms and effects, both acute and delayed
Under normal conditions of intended use, this material does not pose a risk to health.

4.3 Indication of any immediate medical attention and special treatment
Treat symptomatically

Section 5. Fire-fighting measures

General fire hazards
The product is not flammable.

5.1 Exinguishing media
• Suitable extinguishing media
Extinguishing with foam, carbon dioxide, dry powder or water fog.
• Unsuitable extinguishing media
None known.

5.2 Special hazards arising from the substance or mixture
By heating and fire, harmful vapors/gases may be formed.

5.3 Advice for fire fighters
• Special protective equipment for fire fighters
Wear self-contained breathing apparatus and protective clothing.
• Special fire fighting procedures
In the event of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.
Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel
Avoid contact with skin and eyes. For personal protection, see section 8 of the SDS.

6.1.2 For emergency responders
Keep unnecessary personnel away. Wear protective clothing as described in Section 8 of this safety data sheet.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Cover with plastic sheet to prevent spreading. Do not allow to enter drains, sewers or watercourses.

6.3 Methods and material for containment and cleaning up
Avoid the generation of dusts during clean-up. Sweep up or vacuum up spillage and collect in suitable container for disposal. Collect and dispose of spillage as indicated in section 13 of the SDS.

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
Use with adequate ventilation. Wear protective clothing as described in Section 8 of this safety data sheet. Observe good industrial hygiene practices.

7.2 Precautions for safe storage
Keep containers tightly closed in a dry, cool and well-ventilated place.

7.3 Specific end use(s)
Ion exchange, adsorbent or catalyst

Section 8. Exposure controls/personal protection

8.1 Control parameters

8.1.1 Occupational exposure limits
No exposure limits noted for ingredient(s).

8.1.2 Recommended monitoring procedures
Follow standard monitoring procedures.

8.1.4 DNEL
Not available.
PNEC
Not available.

8.2 Exposure controls

8.2.1 Appropriate engineering controls
Provide adequate ventilation.
8.2.2 Individual protection measures, such as personal protective equipment

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

Eye/face protection
If contact is likely, safety glasses with side shields is recommended.

Skin protection (Hand protection)
Protective gloves should be worn to prevent skin contact. Suitable gloves can be recommended by the glove supplier.

Other
Wear appropriate clothing to prevent repeated or prolonged skin contact.

Respiratory protection
No personal respiratory protective equipment is normally required.

Thermal hazards
None known.

Hygiene measures
Avoid contact with eyes. Handle in accordance with good industrial hygiene and safety practice. 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.

8.2.3 Environmental exposure controls
Environmental manager must be informed of all major spillages.

Section 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance: Beads
Physical state: Solid
Form: Bead
Color: White, yellow, cream, tan or light brown
Odor: Odorless
Odor threshold: N/A
pH: Slightly acidic
Melting point/freezing point: N/A
Boiling point, initial boiling point, and boiling range: N/A
Flash point: N/A
Auto-ignition temperature: N/A
Flammability (solid,gas): N/A
Flammability limit-lower (%): N/A
Flammability limit-upper (%): N/A
Oxidizing properties: N/A
 Explosive properties: N/A
Explosive limit: N/A
Vapour pressure: Like water
Vapour density: N/A
Evaporation rate: N/A
Relative density: 1.15 - 1.25
Solubility (water): Insoluble in water and organic solvents
Partition coefficient n-octanol/water: No data available.
Decomposition temperature: N/A
Viscosity: N/A
Percent volatile: N/A
9.2 Other Information
No relevant additional information available.

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
Heat, sparks, flames elevated temperatures.

10.5 Incompatible materials
Strong oxidizing agents. Nitric acid.

10.6 Hazardous decomposition products
Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

Section 11. Toxicological information

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

Information on likely routes of exposure:
- **Ingestion**
  May cause discomfort if swallowed.
- **Inhalation**
  Inhalation of dusts may cause respiratory irritation.
- **Skin contact**
  May cause mild skin irritation.
- **Eye contact**
  May cause eye irritation on direct contact.
- **Symptoms**
  Irritation of eyes and mucous membranes. Irritation of nose and throat.

11.1 Information on toxicological effects

11.1.1 Not applicable.

11.1.2 Mixture
- **Acute toxicity**
  May cause discomfort if swallowed.
- **Skin corrosion/irritation**
  Prolonged skin contact may cause temporary irritation.
- **Serious eye damage/eye irritation**
  Direct contact with eyes and mucous membranes. Irritation of nose and throat.
- **Respiratory sensitization**
  Not classified.
- **Skin sensitization**
  Not classified.
• Germ cell mutagenicity
  Not classified.
• Carcinogenicity
  Not classified.
• Reproductivity toxicity
  Not classified.
• Specific target organ toxicity - single exposure
  Inhalation of dust may cause respiratory irritation.
• Specific target organ toxicity - repeated exposure
  Not classified.
• Aspiration hazard
  Not classified.
• Mixture versus substance information
  Not available.
• Other information
  Not available.

Section 12. Ecological information

12.1 Toxicity
  No toxicity data noted for the ingredient(s)

12.2 Persistence and degradability
  No data available.

12.3 Bioaccumulative potential
  No data available.
  Mobility
  No data available.
  Environmental fate - Partition coefficient
  No data 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
  The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Section 13. Disposal considerations

13.1 Waste treatment methods
  Residual waste
  Dispose of in accordance with local regulations.
  Contaminated packaging
  Empty containers should be taken to an approved waste handling site for recycling or disposal.
  EU waste code
  Waste codes should be assigned by the user based on the application for which the product was used.
  Disposal methods/information
  Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/containers in accordance with local/regional/national/international regulations.
Section 14. Transport information

14.1 ADR
The product is not covered by international regulation on the transport of dangerous goods.

14.2 RID
The product is not covered by international regulation on the transport of dangerous goods.

14.3 ADN
The product is not covered by international regulation on the transport of dangerous goods.

14.4 IATA
The product is not covered by international regulation on the transport of dangerous goods.

14.5 IMDG
The product is not covered by international regulation on the transport of dangerous goods.

14.6 Transport in Bulk according to Annex II of MARPOL 73/78 and the IBC Code
No information available.

Section 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:
EU Regulations:
Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer, Annex I:
Not listed.
Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer, Annex II:
Not listed.
Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I:
Not listed.
Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1:
Not listed.
Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2:
Not listed.
Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3:
Not listed.
Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V:
Not listed.
Directive 96/61/EC concerning integrated pollution prevention and control (IPPC): Article 15, European Pollution Emission Registery (EPER):
Not listed.
Regulation (EC) No. 1907/2006, REACH Article 59(1). Candidate List:
Not listed.
Other regulations
This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006. The product does not need to be labeled in accordance with EC directives or respective national laws.
National regulations
Follow national regulation for work with chemical agents.

15.2 Chemical safety assessment
No Chemical Safety Assessment has been carried out
Section 16. Other information:

List of abbreviations:
DNEL: Derived No-Effect Level.
PNEC: Predicted No-Effect Concentration.
PBT: Persistent, bioaccumulative and toxic.
vPvB: Very Persistent and very bioaccumulative.

References:
Not available.

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 statements or R-phrases and H-phrases under Sections 2 to 15:
None.

Training information:
Follow training instructions when handling this material.

Further information:
This mixture is exempted from Registration according to the provisions of Title II and VI and Article 2(9) of REACH.

Disclaimer:
The information provided in this safety data sheet is based on current knowledge about the product and current legal requirements and standards. It relates specifically to health, safety and environmental requirements and standards, may not identify all hazards associated with the product or its uses or misuses, does not signify any warranty with regard to the properties of the product, and only applies when the product is used for the purposes indicated in section 1. This product is not sold as suitable for other purposes and such other usage may cause risks not mentioned in this safety data sheet.