# MATERIAL SAFETY DATA SHEET

## 1 PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** PD206

<table>
<thead>
<tr>
<th>Manufacturer Name:</th>
<th>Emergency Telephone:</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Purolite Company</td>
<td>(866) 387-7344</td>
</tr>
<tr>
<td>150 Monument Road</td>
<td>Non-toll free number: 760-602-8703</td>
</tr>
<tr>
<td>Bala Cynwyd, PA 19004, USA</td>
<td></td>
</tr>
<tr>
<td>Tel: +1 610 668 9090; Fax: +1 610 668 8139</td>
<td></td>
</tr>
</tbody>
</table>

| Supplier: |
| Purolite International Limited |
| Llantrisant Business Park |
| Llantrisant, Wales, UK CF72 8 L |
| Tel: +44 1443 229334; Fax: +44 1443 227073 |

| Purolite Company Ltd. |
| Dongmenwai, Chengguan Town. Deqing Co., Huzhou City, Zhejiang 313216 |
| Tel: +86 572 842 2908; Fax: +86 572 842 5345 |

**Intended Use:** Ion Exchange, Adsorbent, and / or Catalyst

**Contact Person:** Ken Shaner, E-mail: kshaner@puroliteusa.com

## 2 HAZARDS IDENTIFICATION

**Emergency Overview**

<table>
<thead>
<tr>
<th>Physical State:</th>
<th>Solid (bead)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color:</td>
<td>Light amber to black</td>
</tr>
<tr>
<td>Odor:</td>
<td>None</td>
</tr>
</tbody>
</table>

WARNING!
Causes eye irritation.

**Potential Health Effects**

**Inhalation:** Limited inhalation hazard at normal work temperatures.

**Eye Contact:** Causes eye irritation. Exposed individuals may experience eye tearing, redness, and discomfort.

**Skin Contact:** May be slightly irritating to skin.

**Ingestion:** Ingestion may cause irritation and malaise.
**Chronic Health Effects:** No other specific acute or chronic health impact noted.

**Target Organ(s):** | Eye | Skin.

**Potential Physical / Chemical Effects:** This product is not flammable.

**OSHA Regulatory Status:** This product is hazardous according to OSHA 29CFR 1910.1200.

**Environment:** The environmental hazard of the product is considered to be limited.

### 3 COMPOSITION / INFORMATION ON INGREDIENTS

**General Information:** The product contains: Polymer.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Concentration*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>1 - 3%</td>
</tr>
<tr>
<td>† Benzene, diethenyl-, polymer with ethenylbenzene and ethenylethylbenzene, sulfonated</td>
<td>69011-20-7</td>
<td>35 - 65%</td>
</tr>
</tbody>
</table>

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.  
† This chemical is hazardous according to OSHA/WHMIS criteria.

### 4 FIRST AID MEASURES

**Inhalation:** No specific first aid measures noted.

**Eye Contact:** Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention.

**Skin Contact:** Wash skin with soap and water.

**Ingestion:** Immediately rinse mouth and drink plenty of water (200-300 ml). Large quantities: Get medical attention if irritation develops and persists.

### 5 FIRE-FIGHTING MEASURES

**Extinguishing Media:** Extinguish with foam, carbon dioxide, dry powder or water fog.

**Unsuitable Extinguishing Media:** Not applicable.

**Special Fire Fighting Procedures:** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**Unusual Fire & Explosion Hazards:** None known.

**Hazardous Combustion Products:** Benzene compounds, Carbon Oxides, Hydrocarbons, Styrene, Sulfur Oxides

**Protective Measures:** Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in the workplace.
Flammability Class: NFPA Rating Fire = 1.

6 ACCIDENTAL RELEASE MEASURES

Personal Precautions: In case of spills, beware of slippery floors and surfaces. See Section 8 of the MSDS for Personal Protective Equipment.

Spill Cleanup Methods: Sweep up spilled substance and remove to safe place. Do not discharge onto the ground or into water courses. Collect and dispose of spillage as indicated in section 13 of the MSDS.

7 HANDLING AND STORAGE

Handling: Avoid contact with eyes and prolonged skin contact. See Section 8 of the MSDS for Personal Protective Equipment. Observe good industrial hygiene practices.

Storage: Store at temperatures above 0°C. Store at temperature below 40°C. Keep in original container. Keep container tightly closed to prevent the loss of water. Store away from incompatible materials.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits: No exposure limits noted for ingredient(s).

Engineering Controls: Provide adequate ventilation.

Respiratory Protection: If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA Standard 63 FR 1152, January 8, 1998. Respirator type: High-efficiency particulate respirator.

Eye Protection: Wear safety glasses with side shields (or goggles).

Hand Protection: Risk of contact: Wear protective gloves. Suitable gloves can be recommended by the glove supplier.

Skin Protection: Risk of contact: Use skin protection. It is a good industrial hygiene practice to minimize skin contact.

Hygiene Measures: 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 spillages.

9 PHYSICAL AND CHEMICAL PROPERTIES

Color: Light amber to black

Odor: None

Odor Threshold: Not applicable.
Physical State: Solid (bead)

pH: Not applicable

Melting Point: Not applicable.

Freezing Point: Not applicable.

Boiling Point: Not applicable.

Flash Point: Not applicable.

Evaporation Rate: Not applicable.

Flammability Limit - Upper (%): Not applicable.

Flammability Limit - Lower (%): Not applicable.

Vapor Pressure: Not applicable.

Vapor Density (Air=1): Not applicable.

Specific Gravity: Not applicable.

Solubility in Water: Insoluble

Solubility (Other): Not applicable.

Partition Coefficient (n-Octanol/water): Not applicable.

Autoignition Temperature: Not applicable.

Decomposition Temperature: Not applicable.

10 STABILITY AND REACTIVITY

Stability: Material is stable under normal conditions.

Conditions to Avoid: Avoid heat.


Hazardous Decomposition Products:

| At Elevated Temperatures: | Benzene compounds, Carbon Oxides, Hydrocarbons, Styrene, Sulfur Oxides |

Possibility of Hazardous Reactions: Will not occur.

11 TOXICOLOGICAL INFORMATION

Listed Carcinogens: None.

Product Information

Acute Toxicity:

Test Results

No test data available for the product.

Other Acute: No additional adverse health effects noted.

Chronic Toxicity: No data available.

12 ECOLOGICAL INFORMATION

Ecotoxicity: No data available.

Mobility: The product is insoluble in water and will sediment in water systems.
Persistence and Degradability: The product is not readily biodegradable.

Bioaccumulation Potential: Potential to bioaccumulate is low.

Other Adverse Effects: No data available.

### 13 DISPOSAL CONSIDERATIONS

**General Information:** Dispose of waste and residues in accordance with local authority requirements.

**Disposal Methods:** No specific disposal method required.

**Container:** Since emptied containers retain product residue, follow label warnings even after container is emptied.

### 14 TRANSPORT INFORMATION

**DOT** Not regulated.

**TDG** Not regulated.

**IATA** Not regulated.

**IMDG** Not regulated.

### 15 REGULATORY INFORMATION

**Canadian Controlled Products Regulations:** This product has been classified according to the hazard criteria of the Canadian Controlled Products Regulations, Section 33, and the MSDS contains all required information.

**WHMIS Classification:** D2B

**Mexican Dangerous Statement:** This product is dangerous according to Mexican regulations.

**Inventory Status**

This product or all components are listed or exempt from listing on the following inventory: TSCA, DSL.

**US Regulations**

**CERCLA Hazardous Substance List (40 CFR 302.4):** Not regulated.

**SARA Title III**

**Section 302 Extremely Hazardous Substances (40 CFR 355, Appendix A):** Not regulated.

**Section 311/312 (40 CFR 370):**

- [X] Acute (Immediate)
- [ ] Chronic (Delayed)
- [ ] Fire
- [ ] Reactive
- [ ] Pressure Generating
Section 313 Toxic Release Inventory (40 CFR 372): Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): Not regulated.


Drug Enforcement Act: Not regulated.

TSCA

TSCA Section 4(a) Final Test Rules & Testing Consent Orders: Not regulated.


TSCA Section 5(e) PMN-Substance Consent Orders: Not regulated.


State Regulations


Massachusetts Right-To-Know List: Not regulated.


Minnesota Hazardous Substances List: Not regulated.

New Jersey Right-To-Know List: Not regulated.

Pennsylvania Right-To-Know List: Not regulated.

Rhode Island Right-To-Know List: Not regulated.

16 OTHER INFORMATION

HAZARD RATINGS

<table>
<thead>
<tr>
<th></th>
<th>Health Hazard</th>
<th>Fire Hazard</th>
<th>Instability</th>
<th>Special Hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>NFPA</td>
<td>2</td>
<td>1</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe
NFPA Label colored diamond code: Blue - Health; Red - Flammability; Yellow - Instability; White - Special Hazards

<table>
<thead>
<tr>
<th></th>
<th>Health Hazard</th>
<th>Flammability</th>
<th>Physical Hazard</th>
<th>Personal Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>HMIS</td>
<td>2</td>
<td>1</td>
<td>0</td>
<td>--</td>
</tr>
</tbody>
</table>

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe
HMIS Label colored bar code: Blue - Health; Red - Flammability; Orange - Physical Hazards; White - Special
Issue Date: 13-Jan-2008
Supercedes Date: 
SDS No.: 002

Disclaimer: The information provided in this material 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 material safety data sheet.