
MATERIAL SAFETY DATA SHEET

1. Identification of the substance or preparation and of the company/undertaking

- 1.1.** Identification of substance or preparation: **Purolite® A520E**
- 1.2.** Use of the substance/preparation: Ion Exchange, Adsorbent, and/or Catalyst
Chemical Name: Polyvinyl benzyl dimethyl ethanol ammonium chloride
- 1.3.** Company/undertaking Identification: The Purolite Company
150 Monument Road
Bala Cynwyd, PA 19004 USA
Tel:+1 610 668 9090
Fax:+1 610 668 8139
- Name of Manufacturer: Purolite S.R.L.
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505700 Victoria,
Judetul Brasov,
Romania
Tel:+40 26 824 3004
Fax:+40 26 824 3002
- Purolite (China) Company Limited,
Qianlong Economic Development Zone,
Qianyuan Town, Deqing County,
Huzhou City, Zhejiang, China 313216
Tel: +86 572 842 2908
Fax:+86 572 842 5345
- The Purolite Company
150 Monument Road
Bala Cynwyd, PA 19004 USA
Tel:+1 610 668 9090
Fax:+1 610 668 8139
- Responsible Person: Ken Shaner
Email: kshaner@puroliteusa.com
- 1.4.** Emergency Telephone: USA Toll Free: + 1 866 387 7344
USA Direct: + 1 760 602 8703

2. Hazards identification

Emergency overview

- Physical state: Solid (bead)
- Color: Not applicable
- Odor: Not applicable

- Contact with eyes: Warning! Causes eye irritation
- Contact with skin: Warning! Causes mild skin irritation

Low hazard for unusual industrial or commercial handling by trained personnel.

OSHA regulatory status

- This product is not hazardous according to OSHA 29CFR 1910.1200.

Potential health effects

- Inhalation: Limited inhalation hazard at normal work temperatures.
- Eye Contact: May cause temporary eye irritation.
- Skin Contact: May be slightly irritating to skin.
- Ingestion: Under normal conditions of intended use, this material does not pose a risk to health. However, 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.

Environmental effects

- The environmental hazard of the product is considered limited.

3. Composition/information on ingredients

3.1 Ingredient	Concentration	CAS Number	R Phrases	Symbol
Polyvinyl benzyl trimethyl ammonium chloride	25-57%	69011-19-4	-	-
Water	35-60%	7732-18-5	-	-

4. First aid measures

Inhalation

- No specific first aid measures noted.

Eye Contact

- Any material that contacts the eye should be washed out immediately with water. If easy to do, remove any contact lenses. Get medical attention if any discomfort continues.

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 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 and explosion hazards

- None known.

Hazardous combustion products

- Benzene compounds, carbon oxides, 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
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6. Accidental release measures

Personal precautions

- Keep people and animals away
- Spillage causes slippery surface

Environmental precautions

- Do not allow to enter public sewers and watercourses

Methods for cleaning up

- Sweep up as much as possible and transfer to plastic containers for recovery or disposal
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7. Handling and storage

7.1 Handling

- Avoid contact with eyes and prolonged skin contact. See section 8 of the MSDS for personal protective equipment

7.2 Storage

- Store at temperatures above 0 °C.
 - Store at temperatures below 40 °C.
 - Keep in original container.
 - Keep container tightly closed to prevent the loss of water.
 - Store away from incompatible materials.
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8. Exposure controls/personal protection

8.1 Exposure limits

- No exposure limits noted for ingredients

8.2 Exposure controls

- Provide adequate ventilation

8.2.1 Occupational exposure controls

- 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: Risk of contact: Wear approved safety 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.

8.2.2 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.

8.2.3 Environmental exposure controls

- Environmental manager must be informed of all major spillages
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9. Physical and chemical properties

9.1 - Color: Brown.

- Odor: Not applicable.
- 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: 1.27 approximate..
- Solubility in Water: Insoluble
- Solubility (Other): Not applicable.
- Partition Coefficient (n-Octanol/water): Not applicable.
- Auto Ignition Temperature: Not applicable.
- Decomposition Temperature: Not applicable
- Important health, safety, and environmental information

10. Stability and reactivity

10.1 Conditions to avoid

- Considered stable under normal conditions.
- Avoid heat.

10.2 Materials to avoid

- Incompatible with strong oxidising substances. Contact with strong oxidisers, especially nitric acid, may produce low molecular weight organics that may form explosive mixtures.

10.3 Hazardous decomposition products

- At Elevated Temperatures: Benzene compounds, Carbon Oxides, Styrene, Sulfur Oxides.

10.4 Possibility of Hazardous Reactions: Will not occur.

11. Toxicological information

Listed Carcinogens

- None.

Product Information

- Acute Toxicity: No additional adverse health effects noted.
- Chronic Toxicity: No data available.

12. Ecological information

12.1 Ecotoxicity

- No data available.

12.2 Mobility

- The product is insoluble in water and will sediment in water systems.

12.3 Persistence and degradability

- The product is not readily biodegradable.

12.4 Bioaccumulative potential

- Potential to bioaccumulate is low.

12.5 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

- This is not a WHMIS controlled product.

Mexican Dangerous Statement

- This product is not dangerous according to Mexican regulations.

Applicable International laws and regulations

- This substance meets the OECD polymer definition and is therefore exempt from REACH registration.

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):
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.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

- Not regulated.

Drug Enforcement Act

- Not regulated.

TSCA

- TSCA Section 4(a) Final Test Rules & Testing Consent Orders: Not regulated.
- TSCA Section 5(a)(2) Final Significant New Use Rules (SNURs) (40CFR 721, Subpt. E): Not regulated.
- TSCA Section 5(e) PMN-Substance Consent Orders: Not regulated.
- TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D): Not regulated.

State Regulations

- California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): Not regulated.
- Massachusetts Right-To-Know List: Not regulated.
- Michigan Critical Materials List (Michigan Natural Resources and Environmental Protection Act (Act. 451 of 1994)): 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

	Health Hazard	Fire Hazard	Instability	Special Hazard
NFPA	1	1	0	0

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

	Health Hazard	Flammability	Physical Hazard	Personal Protection
HMIS	1	1	0	--

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

Note:

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 safety data sheet.