



SDS

Safety Data Sheet

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Form #: STI-105 Date: revision 000 03/12/2019

Section 1. PRODUCT IDENTIFICATION

Product Identifiers

Product Name: Purolite Spherical PSDVB Gel Type 1 QA Resin, CI-form 300-1200um.

CAS number: Mixture

Product Part Numbers: A400, A502P

Synonyms: Ion exchange resin, CI-form.

Recommended use: Chromatography, Laboratory chemicals.

Uses advised against: None known.

Details of the Supplier of the Safety Data Sheet:

Company: Sorbent Technologies

5955 Peachtree Corners East

Norcross, GA 30071 USA

Emergency Telephone Number: 1-866-767-2832

Section 2. HAZARD IDENTIFICATION

United States: According OSHA 29 CFR 1910.1200 HCS

GHS Classification of the Substance or Mixture including Precautionary Statements:

Emergency Overview: Yellowish-white spherical beads.

Potential Health Effects: Medical conditions aggravated by exposure: Not expected to be a health hazard.

Physical hazards: Not classified

Health hazards: Not classified

Environmental hazards: Not classified

OSHA defined hazards: Not classified

Chronic Effects: No adverse effects expected.

Carcinogenic Effects: IARC: Not listed NTP: Not listed OSHA: Not regulated

GHS Label Elements:

Hazard symbol: None

Signal Word: None

Hazard statement: The mixture does not meet the criteria for classification.

Precautionary Statement:

Prevention: Wash thoroughly after handling. Wear eye protection/face protection.

Response: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lens, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Storage: Store away from incompatible materials.

Disposal: Dispose of waste and residues in accordance with local authority requirements.

Other Hazards Not Otherwise Classified (HNOC): None known.

Supplemental information: None

Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterization:

Components	CAS No.	%
Benzene, diethenyl-, polymer with ethenylbenzene and ethenylethylbenzene, chloromethylated, trimethylamine-quaternized	69011-19-4	20-60
Water.	7732-18-5	40-80

Synonyms: Ion exchange resin Cl form.

Composition comments: All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Section 4. FIRST AID MEASURES

Description of First Aid Measures

Skin: Wash material off skin with soap and water. Seek medical attention if irritation develops and persists.
Eyes: Do not rub eyes. Flush with copious amounts of water for 15 minutes while holding eyelids apart. Remove contact lenses, if present and easy to do. Seek medical attention if irritation develops and persists.
Ingestion: Rinse the mouth. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content does not get into lungs. Seek medical attention if gastrointestinal symptoms develop.
Inhalation: Remove to fresh air and keep at rest. Seek medical attention if cough or respiratory symptoms develop or persists.

Most Important Symptoms and Effects, both acute and delayed

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling and blurred vision.

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Provide general supportive measures and treat symptomatically.

General Information

If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the materials involved, and take precautions to protect themselves.

Section 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Water fog. Foam. Dry chemicals. Carbon dioxide (CO₂)

Unsuitable Extinguishing Media: Do not use water jet as an extinguisher, as this will spread the fire.

Specific Hazards arising from the chemical: During fire, gases hazardous to health may be formed.

Flammability Limits in Air: LFL and UFL Not Applicable.

Auto-ignition temperature: Not available

Protective Equipment and precautions for firefighters:

Fire Fighting Equipment: Fire fighting personnel should wear full protective equipment, including self-contained breathing apparatus (SCBA) for all inside fires and large outdoor fires.

Protection of fire-fighters:

Fire Fighting Instructions: Cool containers exposed to heat with water spray and remove container from the area if you can do so with risk. Isolate large fires and allow to burn out. Extinguish fire using water fog, fine water spray, carbon dioxide or foam. Avoid stirring up dust clouds.

General fire hazards: This product is not flammable. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

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

Section 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. Surfaces may become slippery after spillage. Wear suitable protective clothing and gloves. For personal protection, see section 8 of the SDS.

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. Prevent spilled resins from entering sewers or waterways or onto ground.

Methods for Containment:

Stop the flow of material, if this is without risk.

Methods for Clean-up:

If a Spill or Leak Occurs: Ventilate the contaminated area. Clean up spills in a manner that does not disperse dust into the air. Handle in accordance with industrial hygiene and safety practices. These practices include avoiding unnecessary exposure, and removal from eyes, skin, and clothing. Prevent product from entering drains.

Disposal Method: Sweep up or vacuum up and shovel into suitable contains for disposal. Dispose in a facility for non-hazardous wastes. Spent should be disposed of in accordance with State and Federal laws.

Container Disposal: Do not reuse empty bags or drums. Dispose of used bags in facility permitted for non-hazardous wastes.

Section 7. HANDLING AND STORAGE

Precautions for Safe Handling

Handling: Avoid prolonged contact with eyes and skin. Do not breath dust. Keep away from ignition sources. Use in well ventilated areas. Protect containers from physical damage. Wash hands after handling. Avoid release to the environment.

Conditions for Safe Storage, Including any Incompatibilities

Storage: Store in cool, dry, ventilated area and in closed containers. Store above freezing. Keep away from oxidizers, sunlight, heat or flames. Store away form ignition sources. Do not store above 24 deg. C.

TRGS 510): Non-combustible Solids

Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Occupational Exposure Guidelines: No exposure limits noted for ingredients.

Component	OSHA PEL	ACGIH TLV
Benzene, diethenyl-, polymer with ethenylbenzene and ethenylethylbenzene, chloromethylated, trimethylamine-quaternized (69011-19-4)	Not established	Not established (TWA)

ACGIH is the American Conference of Governmental Industrial Hygienists

OSHA is the Occupational Safety and Health Administration

NIOSH is the National Institute of Occupational Safety and Health

PEL is the Permissible Exposure Limits established by OSHA.

TLV is the Threshold Limit Value a term ACGIH uses to express the maximum airborne concentration of a material to which most workers can be exposed during a normal daily and weekly work schedule without adverse effects.

MSHA is the Mine Safety and Health Administration

Exposure Controls

Engineering Controls: Provide eyewash station. Use local exhaust to control emissions near the source.

Ventilation systems should be configured to prevent exceeding the recommended or regulated exposure limits (i.e. OSHA PELs).

Eye Protection: Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU). Safety glasses with side shields are recommended for any type of handling. Where eye contact or dusty conditions may likely, dust tight goggles are recommended. Have eye washing equipment available.

Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Avoid skin contact with this product. Wear appropriate dust resistant clothing. Wash contaminated clothing and clean protective equipment before reuse. Wash skin thoroughly after handling.

Full contact material: Nitrile rubber of minimum layer thickness 0.11 mm and break through time 480 minutes.

Body protection: Choose protection in relation to its type, to the concentration and the amount of any dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and of the amount of any dangerous substances at the specific workplace.

Respiratory Protection: Follow the OSHA respiratory regulations found in 29 CFR 1910.134 or European Standard EN149. Keep dust exposure to a minimum with engineering and administrative controls.

Use appropriate NIOSH/MSHA approved particulate respirators if necessary. Observe respirator use limitations specified by NIOSH/MSHA or the manufacturer. Use type N95 (US) or type P1 (EN 143) dust masks for nuisance levels of dust.

Hand Protection: Wear appropriate chemical resistant gloves. Suites can be recommended by the glove supplier

General Industrial Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Safety shower and eye wash should be available close to work areas.

Environmental Exposure Controls

No special environmental precautions required. Avoid release to the environment.

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Beads
Physical State:	Solid.
Color:	Yellowish-white, pale amber, cream.
Form:	Spherical beads.
Odor:	Odorless.
Odor Threshold:	No available.
pH:	Neutral.
Melting Point/Range:	Not available.
Boiling Point/Range:	Not available.
Flash Point:	Not available.
Evaporation Rate:	Not available.
Flammability (solid, gas);	Not flammable.
Flammability or Explosive Limits	
Upper:	Not available.
Lower:	Not available.
Vapor Pressure:	Not applicable.
Vapor Density:	Not available.
Relative Density:	1.04—1.12 at 25 deg. C (water =1).
Solubility (water):	Insoluble.
Solubility (solvents):	Insoluble .
Partition Coefficient; n-octanol/water:	Not data available.
Autoignition Temperature:	No data available.
Decomposition Temperature:	Not available.
Viscosity:	Not available.
Bulk density:	Not available.
Explosive properties:	Not explosive.
Oxidizing properties:	Not oxidizing.

Section 10. STABILITY AND REACTIVITY

Reactivity

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

Contact or mixture with oxidizing agent such as nitric acid may cause ignition or explosion.

Chemical Stability

This product is stable under normal conditions of storage, shipment and use. Avoid storing at high temperatures or in direct sunlight. Do not store above 24 deg. C.

Possibility of Hazardous Reactions

No dangerous reaction known under conditions of normal use.

Conditions to Avoid

Avoid temperatures exceeding the decomposition temperature. Contact with incompatible materials.

Incompatible Materials

Contact with strong oxidizers such as ozone, liquid oxygen, chlorine, permanganate, etc. may result in rapid combustion.

Hazardous Decomposition Products

Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition.

Thermal decomposition can lead to release of irritating gases and vapors such as NO_x, HCl, and carbon oxides.

Section 11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

Acute Toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Benzene, diethenyl-, polymer with ethenylbenzene and ethenylethylbenzene, chloromethylated, trimethylamine-quaternized (69011-19-4)	N/A	N/A	N/A

Routes of Exposure: Eye contact.

Toxicologically Synergistic Products: Occupational exposure may cause adverse effects.

Delayed and Immediate Effects as well as Chronic Effects from Short and Long Term Exposure

Skin corrosion/irritation: Prolonged skin contact may cause temporary irritation.

Eye Contact: Dust may irritate the eyes. May cause eye irritation on direct contact.

Respiratory Sensitization: Not a respiratory sensitizer. Not a skin sensitizer.

Skin Sensitization: This product is not expected to cause skin sensitizer.

Carcinogenicity: Table below indicates if each agency has listed any ingredient as a Carcinogen.

Component	CAS-No.	IARC	NTP	ACGIH	OSHA	Mexico
Benzene, diethenyl-, polymer with ethenylbenzene with ethenylbenzene and ethenylethylbenzene chloromethylated, trimethylamine-quaternized. 69011-19-4		Not listed	Not listed	Not listed	Not listed	Not listed

Mutagenic Effects: No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Reproductive Effects: This product is not expected to cause reproductive or developmental effects.

Developmental Effects: No information available.

Teratogenicity: No information available.

Specific Target Organ Toxicity (STOT)-single exposure: Not classified.

Specific Target Organ Toxicity (STOT)-repeated exposure: Not classified.

Aspiration: Not an aspiration hazard.

Symptoms / Effects, Both Acute and Delayed: Prolonged inhalation may be harmful.

Endocrine Disruptor Information: No information available.

Symptoms: Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision

Other Adverse Effects: The toxicological properties have not been fully investigated.

Section 12. ECOLOGICAL INFORMATION

Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have harmful or damaging effect on the environment.

Environmental 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.

Persistence/ Degradability

No data is available on the degradability of this product.

Bioaccumulation Potential

No information available.

Aquatic toxicity: Not expected to be harmful to aquatic organisms.

Mobility in Soil

No information available.

Other Adverse Effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

Section 13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal methods: 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.

Waste from Residues: 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: Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Local regulations may be more stringent than state or federal requirements.

Section 14. TRANSPORTATION INFORMATION

Land:	DOT (US):	Not regulated as dangerous goods
	ADR/RID (EU):	Not regulated as dangerous goods
	TDG (Canada):	Not regulated as dangerous goods

Water:	IMO/IMDG:	Not regulated as dangerous goods
Air:	IACO/IATA:	Not regulated as dangerous goods

Transportation in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable

Special Precautions for User

No information available

Section 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations/ Legislation Specific for the Substance or Mixture International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
69011-19-4	X	X	-	-	-	X	X	X	X	X	X

X indicates listed

U.S. Federal Regulations

This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

TSCA: CAS# 69011-19-4 is listed on the TSCA inventory. Not regulated.

CERCLA Hazardous Substances and Corresponding RQs: None of the chemicals in this material have an RQ.

SARA Section 302 Extremely Hazardous Substances: None of the chemicals in this product have a TPQ.

SARA Codes: CAS# 69011-19-4:

SARA 311/312 Hazardous Categorization:

Acute Health Hazard:	No
Chronic Health Hazard:	No
Fire Hazard:	No
Sudden Release of Pressure:	No
Reactive Hazard:	No

SARA Section 313: Not regulated

Clean Air Act:

This material does not contain any hazardous air pollutants, Class 1 Ozone depletors or Class 2 Ozone depletors.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances, Priority Pollutants or Toxic Pollutants under the CWA.

OSHA: Not applicable

CERCLA: Not applicable

U.S. Department of Transportation (DOT)

Reportable Quantity (RQ): No

DOT Marine Pollutant: No

DOT severe Marine Pollutant: No

U.S. Department of Homeland Security (DHS)

This product does not contain any DHS chemicals.

States Right-to-Know

Not listed. This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

CAS# 69011-19-4

California Prop 65: Not listed. California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

Massachusetts: Not regulated.

New Jersey Right to Know: Not listed.

Pennsylvania: Not listed.

Florida: No data.

Rhode Island: Not regulated.

Illinois: No data.

Connecticut - Hazardous Air pollutants: No data.

Canadian Classification

WHMIS: Non-controlled.

DSL: Listed.

EEC Council Directives relating to the classification, packaging, and labeling of dangerous substances and preparations.

Risk and Safety Phrases: R36: Irritating to eyes.

Mexico—Grade

No information available.

Section 16. OTHER INFORMATION

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to these products or handling of these products. Customers/users must comply with all applicable health and safety laws, regulations, and orders

SDS REVISION SUMMARY:

This document has been updated to comply with the U.S. OSHA HazCom 2012 Standard replacing the current Legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)