

SPETEC® PUR HIGHFOAMER

Hydrophobic closed cell polyurethane foam injection resin.

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: SPETEC® PUR HIGHFOAMER
MANUFACTURER: Alchemy-Spetec
ADDRESS: 4508 Bibb Blvd, Tucker, GA 30084
PHONE: (404) 618-0438
FAX: (678) 805-4783
WEBSITE: www.alchemy-spetec.com
For Emergency: Call CHEMTREC Day or Night
 1-800-424-9300 / +1 703-527-3887

SECTION 2: HAZARDS IDENTIFICATION

Pictograms:



Signal word: Danger

Hazard statements:

Hazard statements:
 EUH208: Contains (Isocyanic acid, polyethylene phenyl ester; diphenylmethane-4,4'-diisocyanate). May produce an allergic reaction.
 H315 Skin Irrit. 2: Causes skin irritation.
 H317 Skin Sens. 1: May cause an allergic skin reaction.
 H319 Eye Irrit. 2: Causes serious eye irritation.
 H332 Acute tox. 4: Harmful if inhaled.
 H334 Resp. Sens. 1: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 H335i STOT SE 3: May cause respiratory irritation.
 H351 Carc. 2: Suspected of causing cancer.
 H373i STOT RE 2: May cause damage to organs through prolonged or repeated exposure.

Precautionary statements:

Precautionary statements:
 P261: Avoid breathing dust/vapours/spray.
 P280: Wear protective gloves, protective clothing, eye protection, face protection.
 P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P342+P311: If experiencing respiratory symptoms: Call a POISON CENTRE or doctor.
 P362+P364: Take off contaminated clothing and wash it before reuse.

Contains: Isocyanic acid, polyethylene phenyl ester

Other hazards: None

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Name of Hazardous Ingredients			
Isocyanic acid, polyethylene phenyl ester	> 30%	CAS number: EINECS: REACH Registration number: CLP Classification:	9016-87-9 H315 Skin Irrit. 2 H317 Skin Sens. 1 H319 Eye Irrit. 2 H332 Acute tox. 4 H334 Resp. Sens. 1 H335i STOT SE 3 H351 Carc. 2 H373i STOT RE 2
diphenylmethane-4,4'-diisocyanate	15% - 30%	CAS number: EINECS: REACH Registration number: CLP Classification:	101-68-8 202-966-0 01-2119457014-47 H315 Skin Irrit. 2 H317 Skin Sens. 1 H319 Eye Irrit. 2 H332 Acute tox. 4 H334 Resp. Sens. 1 H335i STOT SE 3 H351 Carc. 2 H373i STOT RE 2
Propylene carbonate	5% - 15%	CAS number: EINECS: REACH Registration number: CLP Classification:	108-32-7 203-572-1 01-2119537232-48 H319 Eye Irrit. 2

For the full text of the H & R phrases mentioned in this section, see section 16.

SECTION 4: SECTION 4: FIRST-AID MEASURES

4.1 Description of first aid measures:

Always ask medical advice as soon as possible should serious or continuous disturbances occur.

Skin contact: remove contaminated clothing, rinse skin with plenty of water and immediately transport to hospital.
Eye contact: first prolonged rinsing with water (contact lenses to be removed if this is easily done) then take to physician.
Ingestion: rinse mouth, do not induce vomiting, take to hospital immediately.
Inhalation: let sit upright, fresh air, rest and take to hospital.

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

Skin contact: caustic, redness, pain, serious burns
Eye contact: caustic, redness, bad looking, pain
Ingestion: caustic, lack of breath, vomiting, blisters on lips and tongue, burning pain in mouth and throat, gullet and stomach
Inhalation: headache, dizziness, nausea, drowsiness, unconsciousness

4.3 Indication of any immediate medical attention and special treatment needed:

none

SECTION 5: FIRE-FIGHTING MEASURES (ERG CODE 171)

5.1 Extinguishing media: CO₂, foam, powder, sprayed water
5.2 Special hazards arising from the substance or mixture: none
5.3 Advice for firefighters: Extinguishing agents to be avoided: none

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**SECTION 6:
ACCIDENTAL RELEASE MEASURES (ERG CODE 171)**

6.1 Personal precautions, protective equipment and emergency procedures:

Do not walk into or touch spilled substances and avoid inhalation of fumes, smoke, dusts and vapours by staying up wind. Remove any contaminated clothing and used contaminated protective equipment and dispose of it safely.

6.2 Environmental precautions:

do not allow to flow into sewers or open water.

6.3 Methods and material for containment and cleaning up:

Contain released substance, store into suitable containers. If possible remove by using absorbent material.

6.4 Reference to other sections:

for further information check sections 8 & 13.

**SECTION 7:
HANDLING AND STORAGE**

7.1 Precautions for safe handling:

handle with care to avoid spillage.

7.2 Conditions for safe storage, including any incompatibilities:

keep in a sealed container in a closed, frost-free, ventilated room.





7.3 Specific end use(s):

/

**SECTION 8:
EXPOSURE CONTROLS/PERSONAL PROTECTION**

8.1 Control parameters:

Listing of the hazardous ingredients in section 3, of which the TLV value is known

Inhalation protection:	If necessary, use an air-purifying face mask in case of respiratory hazards.	
Skin protection:	Handling with Viton-gloves (EN 374). Breakthrough time: >480' Material thickness: 0,7 mm. Thoroughly check gloves before use. Take of the gloves properly without touching the outside with your bare hands. The manufacturer of the protective gloves has to be consulted about the suitability for a specific work station. Wash and dry your hands.	
Eye protection:	Keep an eye-rinse bottle within reach. Tight-fitting safety goggles. Wear a face shield and protective suit in case of exceptional processing problems.	
Other protection:	Impermeable clothing. The type of protective equipment depends on the concentration and amount of hazardous substances at the work station in question.	

**SECTION 9:
PHYSICAL AND CHEMICAL PROPERTIES**

9.1 Information on basic physical and chemical properties:

Melting point/melting range:	/
Boiling point/Boiling range:	242 °C — 242 °C
pH:	/
pH 1% diluted in water:	/
Vapour pressure/20°C,:	3 Pa
Vapour density:	Not applicable
Relative density, 20°C:	1.0700 kg/l
Appearance/20°C:	liquid
Flash point:	/
Flammability (solid, gas):	Not applicable
Auto-ignition temperature:	330 °C
Upper flammability or explosive limit, (Vol %):	/

Lower flammability or explosive limit, (Vol %):	/
Explosive properties:	Not applicable
Oxidising properties:	Not applicable
Decomposition temperature:	/
Solubility in water:	Not applicable
Partition coefficient: noctanol/water:	Not applicable
Odour:	Characteristic
Odour threshold:	Not applicable
Dynamic viscosity, 20°C:	100 mPa.s
Kinematic viscosity, 40°C:	93 mm ² /s
Evaporation rate (n-BuAc = 1):	/

9.2 Other information:

Volatile organic component (VOC):	/
Volatile organic component (VOC):	112.350 g/l

**SECTION 10:
STABILITY AND REACTIVITY**

10.1 Reactivity:

Stable under normal conditions.

10.2 Chemical stability:

Extremely high or low temperatures.

10.3 Possibility of hazardous reactions:

None

10.4 Conditions to avoid:

Protect from sunlight and do not expose to temperatures exceeding + 50°C.

10.5 Incompatible materials:

Acids, alkalines, oxidants, reductants

10.6 Hazardous decomposition products:

Doesn't decompose with normal use

**SECTION 11:
TOXICOLOGICAL INFORMATION**

11.1 Information on toxicological effects:

H315 Skin Irrit. 2:	Causes skin irritation.
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H319 Eye Irrit. 2:	Causes serious eye irritation.
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H351 Carc. 2:	Suspected of causing cancer.
H373i STOT RE 2:	May cause damage to organs through prolonged or repeated exposure.
Calculated acute toxicity, ATE oral:	/
Calculated acute toxicity, ATE / dermal:	

Isocyanic acid, polyethylene phenyl ester	LD50 oral, rat: ≥ 5,000 mg/kg LD50 dermal, rabbit: ≥ 5,000 mg/kg LC50, Inhalation, rat, 4h: 11 mg/l
diphenylmethane-4,4'-diisocyanate	LD50 oral, rat: ≥ 5,000 mg/kg LD50 dermal, rabbit: ≥ 5,000 mg/kg LC50, Inhalation, rat, 4h: 11 mg/l
Propylene carbonate	LD50 oral, rat: ≥ 5,000 mg/kg LD50 dermal, rabbit: ≥ 5,000 mg/kg LC50, Inhalation, rat, 4h: ≥ 50 mg/l

**SECTION 12:
ECOLOGICAL INFORMATION**

12.1 Toxicity:

Propylene carbonate	LC50 (Fish):	> 1000 mg/L (96h)
	NOEC (Fish):	1000 mg/L (96h)
	EC50 (Daphnia):	> 1000 mg/L (24h)
	EC50 (Algae):	> 900 mg/L (72h)
	NOEC (Algae):	900 mg/L (72h)
	EC50 (soil microorganisms):	25619 mg/L (16h)

12.2 Persistence and degradability:

No additional data available

12.3 Bioaccumulative potential:

No additional data available

12.4 Mobility in soil:

Water hazard class, WGK: 1
Solubility in water: not soluble

12.5 Results of PBT and vPvB assessment:

No additional data available

12.6 Other adverse effects:

No additional data available

**SECTION 13:
DISPOSAL CONSIDERATIONS**

13.1 Waste treatment methods:

Draining into the sewers is not permitted. Removal should be carried out by licensed services. Possible restrictive regulations by local authority should always be adhered to.

**SECTION 14:
TRANSPORT INFORMATION**

14.1 UN number:	Not applicable
14.2 UN proper shipping name:	ADR, IMDG, ICAO/IATA not applicable
14.3 Transport hazard class(es):	
Class(es):	Not applicable
Identification number of the hazard:	Not applicable
14.4 Packing group:	Not applicable
14.5 Environmental hazards:	Not dangerous to the environment
14.6 Special precautions for user:	
Hazard characteristics:	Not applicable
Additional guidance:	Not applicable

**SECTION 15:
REGULATORY INFORMATION**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

Water hazard class, WGK:	1
Volatile organic component (VOC):	/
Volatile organic component (VOC):	112.350 g/l
Composition by regulation (EC 648/2004):	none

15.2 Chemical Safety Assessment:

No data available

**SECTION 16:
OTHER INFORMATION**

Legend to abbreviations used in the safety data sheet:

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ADR:	The European Agreement concerning the International Carriage of Dangerous Goods by Road
BCF:	Bioconcentration factor
CAS:	Chemical Abstracts Service
CLP:	Classification, Labelling and Packaging of chemicals
EINECS:	European Inventory of Existing Commercial chemical Substances
Nr.:	number
PTB:	persistent, toxic, bioaccumulative
TLV:	Threshold Limit Value
vPvB:	very persistent and very bioaccumulative substances
WGK:	Water hazard class
WGK 1:	slightly hazardous for water
WGK 2:	hazardous for water
WGK 3:	extremely hazardous for water

Legend to the R & H Phrases used in the safety data sheet:

EUH208: Contains (Isocyanic acid, polyethylene phenyl ester; diphenylmethane-4,4'-diisocyanate). May produce an allergic reaction. **H315 Skin Irrit. 2:** Causes skin irritation. **H317 Skin Sens. 1:** May cause an allergic skin reaction. **H319 Eye Irrit. 2:** Causes serious eye irritation. **H332 Acute tox. 4:** Harmful if inhaled. **H334 Resp. Sens. 1:** May cause allergy or asthma symptoms or breathing difficulties if inhaled. **H335i STOT SE 3:** May cause respiratory irritation. **H351 Carc. 2:** Suspected of causing cancer. **H373i STOT RE 2:** May cause damage to organs through prolonged or repeated exposure.

PREPARATION INFORMATION:

May, 2018

This SDS is on a three year review cycle. If the date on this sheet is older than three years please contact Alchemy-Spetec for an updated SDS.

DISCLAIMER:

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SAFETY DATASHEET

