

Spetec PUR GT380

Hydrophilic flexible polyurethane gel injection resin.

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Spetec PUR GT380

MANUFACTURER: Alchemy-Spetec

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FOR EMERGENCY: Call CHEMTREC Day or Night

1-800-424-9300 / +1 703-527-3887

SECTION 2: HAZARD(S) IDENTIFICATION

2.1 Classification of the Substance or Mixture:

Skin Irrit 2; H315 Skin Sens. 1; H317 Eye Irrit 2; H319 Resp. Sens 1; H334 Skin Sens.; H312 Resp. Irrit; H332

2.2. Label Elements

Pictograms:



Signal Word:

Danger

Hazard Statements:

H315 : Causes skin irritation [Warning Skin corrosion/irritation]

H317 : May cause an allergic skin reaction [Warning Sensitization, Skin]

H319 : Causes serious eye irritation [Warning Serious eye damage/eye irritation]

H334 : May cause allergy or asthma symptoms or breathing difficulties if inhaled [Danger Sensitization, respiratory]

H312: Harmful in contact with skin [Warning Acute toxicity, dermal]

H332: Harmful if inhaled [Warning Acute toxicity, inhalation]

Precautionary Statements:

P261, P264, P272, P280, P285, P302+P352, P304+P341, P305+P351+P338, P321, P332+P313, P333+P313, P337+P313, P342+P311, P362, P271, P304+P312, P304+P340, P312, P322, P363, and P501

Contains:

2,4-methyl-m-phenylene diisocyanate, Glycol Ether Acetate

2.3 Other Hazards:

None

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Name of Ingredient	CAS #	% by Weight	GHS Classification
Urethane Prepolymer	53426-99-6	60-80	Eye Irrit 2, H319 Resp Sens 1, H334
Glycol Ether Acetate	112-15-2	15-30	Skin Sens.; H312 Resp. Irrit; H332
2,4-methyl-m-phenyl-ene diisocyanate	25686-28-6	1-10	Skin Irrit 2; H315 Skin Sens. 1; H317 Eye Irrit 2; H319 Resp. Sens 1; H334

SECTION 4: FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists get medical attention.

SKIN: Immediately take off all contaminated clothing. For skin contact, wash immediately with soap and water. If irritation persists, get medical attention.

INHALATION: If inhalation of gas/fume/vapor/dust/mist from the material is excessive (air concentration is greater than the TLV or health effects are noticed), immediately remove the affected person(s) to fresh air. Seek medical attention.

INGESTION: If the material is swallowed, get immediate medical attention or advice -- Do not induce vomiting.

SECTION 5: FIRE FIGHTING MEASURES

FLASH POINT: Greater than 200F (93 C) ASTM D 3278-96

HAZARDOUS COMBUSTION PRODUCTS: Decomposition of this product may emit oxides of nitrogen and carbon monoxide.

EXTINGUISHING MEDIA: Water spray, dry chemical, carbon dioxide. Alcohol foam.

GENERAL FIRE HAZARDS: NA

FIRE FIGHTING EQUIPMENT/INSTRUCTIONS: Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

SECTION 6: ACCIDENTAL RELEASE MEASURES

SPILLS, LEAKS OR RELEASES: **For major spills call our emergency number (970-510-0034).** Clean up should only be performed by trained personnel. People dealing with major spillages should wear full protective clothing including appropriate respiratory protection. Evacuate the area. Prevent further leakage, spillage or entry into drains.

SECTION 7: HANDLING AND STORAGE

HANDLING PROCEDURES: Avoid breathing aerosols, mists and vapors. Avoid contact with skin and eyes.

STORAGE PROCEDURES: If container is exposed to high heat, it can be pressurized and possibly rupture explosively. Keep the container tightly closed and in a cool, well-ventilated place.

SECTION 8: EXPOSURE CONTROLS

Name of Ingredient	CAS #	Source	Value
Urethane Prepolymer	53426-99-6	OSHA, ACGIH, NIOSH, Supplier	No Established Limits
Glycol Ether Acetate	112-15-2	OSHA, ACGIH, NIOSH, Supplier	No Established Limits
2,4-methyl-m-phenylene diisocyanate	25686-28-6	OSHA, ACGIH, NIOSH, Supplier	OSHA = 0.14 mg/m ³

SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

PHYSICAL STATE: Slightly viscous liquid.

COLOR AND ODOR: Amber, Sweet smelling liquid.

BOILING POINT: > 180 °F

VAPOR PRESSURE: 268°F 180MM

EVAPORATION RATE: Slower than ether.

SOLUBILITY (H2O): Soluble, reacts with water.

VOC: none

SECTION 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under normal conditions.

HAZARDOUS DECOMPOSITION: By high heat and fire: carbon dioxide, carbon monoxide, and oxides of nitrogen.

HAZARDOUS POLYMERIZATION: Polymerization may occur at elevated temperatures in the presence of alkalis, tertiary amines and metal compounds.

INCOMPATIBILITY: Water, amines, strong bases, alcohols, metal compounds and surface-active materials.

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE ORAL TOXICITY: LD50: 4,130 -5,110 mg/kg (Rat, Male/Female)

ACUTE INHALATION TOXICITY: LC50: 66ppm (480 mg/m³), 1 hrs (Rat, Male/Female)
LC50: 49 – 50.4 ppm (350-360 mg/m³), aerosol, 4 h (Rat, Male/Female)
RD50: 2.12 ppm, vapor, 3 h (Rat, male)

ACUTE DERMAL TOXICITY: LD50: > 9,400 mg/kg (rabbit, Male/Female)

SKIN IRRITATION: rabbit, Draize, Exposure Time: 24 hrs, Moderately irritating.

EYE IRRITATION: rabbit, Draize, Severely irritating.

SENSITIZATION: dermal: sensitizer (Guinea pig, Maximization Test). inhalation: sensitizer (Guinea pig, Other Method).

REPEATED DOSE TOXICITY: 113 weeks, inhalation: NOAEL: 0.05 ppm, (Rat, Male/Female, 6hrs/day 5 days/week). Irritation to lungs and nasal cavity. No systemic effects were observed. 909 d, Oral: NOAEL: 30mg/kg, LOAEL: 60mg/kg, (rat, Male/Female, 5 days/week) reduced body weight gain. Changes in : lungs

MUTAGENICITY:

Genetic Toxicity in Vitro:

Ames: positive, negative (Salmonella typhimurium, Metabolic Activation: with/without)
Positive and negative results were seen in various in vitro studies. Questionable validity of studies due to rapid hydrolysis in solvents.

Genetic Toxicity in Vivo:

Micronucleus Assay: negative (rat,)

CARCINOGENICITY: Rat, Male/Female, inhalation, 113 W, 6 hrs/day 5 days/week. Negative.
Rat, Male/Female, oral 106 weeks, daily. Positive, however the study validity is questioned due to the dose exceeding maximum tolerated dose and irregularities in compound storage and analysis.

TOXICITY TO REPRODUCTION/FERTILITY: Two generation study, inhalation, 6 hrs/day 7 days/week, (rat, Male/Female) NOAEL (parental): 0.08. ppm, NOAEL (F1): 0.02 ppm, NOAEL (F2): 0.3 ppm. NO effects on reproductive parameters observed at doses tested.

DEVELOPMENTAL TOXICITY/TERATOGENICITY: Rat, Female, inhalation, gestation days 6-15, 6 hrs/day 7days/week NOAEL (teratogenicity): 0.1 ppm, NOAEL (maternal): 0.1 ppm, Teratogenic effects observed at doses tested. Fetotoxicity seen only with maternal toxicity.

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: No data available for this product. It is unlikely that significant environmental exposure in the air or the water will arise based upon consideration of the production and use of the product. Immiscible with water, but will react with water to product inert and non-biodegradable solids.

SECTION 13: DISPOSAL CONSIDERATIONS

DISPOSAL INSTRUCTIONS: Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations. TDI when discarded is listed as a hazardous waste (U223). Chemical waste, even in small quantities, should never be discarded down drain, sewers, or waterways.

SECTION 14: TRANSPORT INFORMATION

DOT: Class - Not regulated

IMDG International Maritime Dangerous Goods Code: Class - Not regulated

IATA: Class - Not regulated

SECTION 15: REGULATORY INFORMATION

OSHA STATUS: This product is hazardous under the criteria of Federal OSHA Hazard Communication. Standard 29 CFR 1910.1200.

US FEDERAL REGULATIONS: All components are on the U.S. EPA TSCA Inventory List.

CERCLA/SARA - SECTION 313 - EMISSION REPORTING: No SARA hazards.

CALIFORNIA PROP 65: WARNING! This product contains the following ingredients for which the State of California has found to cause cancer, birth defects, or other reproductive harm, which would require a warning under the statute: 2,6 diisocyanate, 2,4 diisocyanate.

This product has been classified in accordance with the hazard criteria of the CPR (Controlled Products Regulations) and this SDS (Material Safety Data Sheet) contains all the information required by the CPR.

CONTROLLED PRODUCTS REGULATIONS (WHMIS) CLASSIFICATION: D-1A; D-2A and D-2B.
CEPA / Canadian Domestic Substances List (DSL): The substance(s) in this product is/are on the Canadian Domestic Substances List (CEPA DSL).

SECTION 16: OTHER INFORMATION

HMIS Ratings:

Health 2

Flammability 1

Reactivity 1

Protection C

PREPARATION INFORMATION:

June, 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:

All information appearing herein is based on manufacturer and / or recognized technical sources. While the information is believed accurate Alchemy-Spetec makes no representations as to the accuracy or sufficiency of the information.

