PureTemp®
GLOBAL AUTHORITY ON PHASE CHANGE MATERIAL

Safety Data Sheet

Section 1 – Chemical Product and Company Identification

Product name: PureTemp 17
Product number: PT01700000

Recommended use: Thermal energy storage.

Company information: PureTemp LLC
2909 Wayzata Boulevard, Suite 72651
Minneapolis, MN 55405
612-563-2233

Emergency contact: Call CHEMTREC Day or Night
1-800-424-9300 (USA)
+1 703-527-3887 (International)

Section 2 – Hazards Identification

GHS classification: Aspiration Hazard : Category 1 – (H304)

Hazard Pictograms



Signal word: Danger
Hazard statements: H304 – May be fatal if swallowed and enters airways
Precautionary Statements:
Prevention
P102 – Keep out of reach of children
Response
P301 + P310 – IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P331 – Do NOT induce vomiting
Storage
P405 – Store locked up
Disposal
P501 – Dispose of contents/container in accordance with local/regional/national regulations

Section 3 – Composition/Information on Ingredients

CAS #	Component
Trade Secret	Proprietary

PureTemp 17 Variants:

PureTemp 17X (PT01710000, unnucleated)

Section 4 – First Aid Measures

Description of first aid measures

Inhalation: If breathed in, move person into fresh air. If breathing is affected seek medical attention

Skin contact: Wash immediately with soap and water. Cover irritated skin with an emollient. If irritation persists, get medical attention.

Eye contact: Immediately flush eyes with large amounts of water, continuing to flush for 15 minutes. If irritation persists, get medical attention.

Ingestion: Get immediate medical attention or advice. Do not induce vomiting.

Most important symptoms and effects, both acute and delayed: May cause skin dryness and irritation. May cause eye and gastrointestinal irritation.

Indication of any immediate medical attention and special treatment needed: No data available.

Extinguishing media

Suitable: Alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable: No data available.

Section 5 – Firefighting Measures

Special hazards: Carbon oxides.

Advice for firefighters: Wear self-contained breathing apparatus for firefighting, if necessary.

Section 6 – Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures: Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Wear appropriate personal protective equipment. For personal protection see section 8.

Environmental precautions: Prevent further leakage or spillage, if safe to do so. Do not let product enter drains. Discharge into the environment should be avoided.

Methods and materials for containment and clean up: Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers for disposal. Keep in suitable, closed containers for disposal.

Section 7 – Handling and Storage

Precautions for safe handling:	Avoid contact with skin and eyes. Wash thoroughly after handling. Avoid inhalation of vapor or mist.
Conditions for safe storage:	Keep the container tightly closed and in a cool, well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section 8 – Exposure Controls and Personal Protection

Control parameters: Contains no substances with occupational exposure limit values.

Engineering controls: Handle in accordance with good industrial hygiene and safety practices. Use appropriate ventilation.

Personal protective equipment

Eyes/face:	Use equipment for eye protection tested and approved under appropriate government standards, such as NIOSH (US) or EN 166 (EU).
Skin:	Use impervious gloves. Gloves must be inspected prior to use. Use proper glove removal technique to avoid skin contact with this product. Dispose of the contaminated gloves in an appropriate manner. Wash and dry hands.
Body:	Wear impervious clothing.
Respiratory:	Respiratory equipment is not required.
General	Eye wash fountain and emergency showers are recommended.

Section 9 – Physical and Chemical Properties

Physical state:	Liquid/solid.
Appearance:	Clear liquid. White solid.
Odor:	Odorless.
Odor threshold:	No data available.
pH:	No data available.
Melting point:	17 °C (63 °F)
Boiling point:	270 °C (518 °F)
Flash point:	112 °C (234 °F)
Evaporation rate:	No data available.
Flammability (solid/gas):	No data available.

Upper/lower flammability or explosive limits:	No data available.
Vapor pressure:	0.004 hPa at 20 °C (68 °F)
Vapor density:	No data available.
Relative density:	0.77 g/mL at 20 °C (68 °F)
Water solubility:	Insoluble
Partition coefficient: n-octanol/water	Log Pow: ~7.5-9 at 20 °C (68 °F)
Auto-ignition temperature:	225 °C (437 °F)
Decomposition temperature:	No data available.
Viscosity:	~3.6 mm²/s @ 40 °C
Explosive properties:	No data available.
Oxidizing properties:	No data available.

Section 10 – Stability and Reactivity

Reactivity:	No data available.
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions:	No data available.
Conditions to avoid:	Heat, flames, sparks, extreme temperatures, and direct sunlight.
Incompatible materials:	Strong oxidizing agents, strong acids, strong bases.
Hazardous decomposition products:	Carbon monoxide with incomplete combustion.

Section 11 – Toxicological Information

Acute toxicity

LD50 Oral – Rat:	> 5,000 mg/kg
LC50 Inhalation – Rat:	> 5.9 mg/L (4h)
Dermal – Rabbit:	> 2,000 mg/kg

Carcinogenicity:	None of this product's components are identified as probable, possible, or confirmed carcinogens by ACGIH, IARC, OSHA, NIOSH, or NTP.
Skin corrosion/irritation:	Not expected to cause significant irritation under normal use conditions
Eye irritation:	Eyes – rabbit. No eye irritation.

Respiratory or skin sensitation: No data available.

Section 12 – Ecological Information

Toxicity

Fish: 96 h NOELR >1000 mg/L (WAF)
Daphne: 48 h NOELR >100 mg/L (WAF)
Algae: 72 h NOELR >100 mg/L (WAF)

Persistence

Biodegradability: Readily biodegradable

Bioaccumulative potential: No data available.

Mobility in soil: No data available.

Section 13 – Disposal Considerations

Disposal instructions: All wastes must be handled in accordance with local, state, and federal regulations.

Section 14 – Transportation Information

DOT (US): Not dangerous goods
IMDG: Not dangerous goods
IATA: Not dangerous goods

Section 15 – Regulatory Information

SARA Title III: None of this product's components are subject to the reporting requirements in SARA Title III, Section 302, Section 311, Section 312, or Section 313.

State regulations: None of this product's components are listed on the state lists from CA, MA, MN, NJ, PA, or RI.

WHMIS IDL: None of this product's components are listed in the WHMIS IDL.

Section 16 – Other Information

The information herein is presented in good faith and believed to be accurate as of the effective date given. However, no warranty, expressed or implied, is given. PureTemp LLC shall not be held liable for any damage resulting from handling, or from contact, with the specified product. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.