PureTemp®
GLOBAL AUTHORITY ON PHASE CHANGE MATERIAL

Safety Data Sheet

Section 1 – Chemical Product and Company Identification

Product name: PureTemp 27
Product number: PT02700000

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: Skin irritation (Category 2), H315

GHS label elements, including precautionary statements

Pictogram:



Signal word: Warning

Hazard statement(s): H315, Causes skin irritation.

Precautionary statement(s):
P264, Wash skin thoroughly after handling.
P273, Avoid release to the environment.
P280, Wear protective gloves/protective clothing/eye protection/face protection.
P302 + P352, IF ON SKIN: Wash with plenty of soap and water.
P332 + P313, If skin irritation occurs: Get medical advice/attention.
P403 + P233, Store in well-ventilated place. Keep container tightly closed.
P501, Dispose of contents/container to an approved waste disposal plant.

Section 3 – Composition/Information on Ingredients

CAS #	Component
Trade Secret	Proprietary Component 1
Trade Secret	Proprietary Component 2

PureTemp 27 Variants:	PureTemp 27X (PT02710000, unnucleated)

Section 4 – First Aid Measures

Description of first aid measures

Inhalation:	If breathed in, move person to 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:	Do not induce vomiting. Drink large amounts of water. Medical attention is recommended.

Most important symptoms and effects, both acute and delayed:	May cause skin and eye irritation.
Indication of any immediate medical attention and special treatment needed:	No data available

Section 5 – Firefighting Measures

Extinguishing media

Suitable:	Alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable:	No data available.
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. Eliminate all ignition sources. 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	Avoid contact with skin and eyes. Wash thoroughly after handling.

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:	Musty
Odor threshold:	No data available.
pH:	No data available.
Melting point:	27 ^{o}C (81 ^{o}F)
Boiling point:	335 ^{o}C (635 ^{o}F)
Flash point:	> 100 ^{o}C (212 ^{o}F)
Evaporation rate:	No data available.
Flammability (solid/gas):	No data available.
Upper/lower flammability or explosive limits:	No data available.
Vapor pressure:	1.389E-4 mmHg

Vapor density:	No data available.
Relative density:	0.87 g/mL at 25 °C (77 °F)
Water solubility:	No data available.
Partition coefficient: n-octanol/water	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.
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:	Will not occur.
Conditions to avoid:	No data available.
Incompatible materials:	Strong oxidizing agents.
Hazardous decomposition products:	Carbon monoxide with incomplete combustion.

Section 11 – Toxicological Information

Acute toxicity	Proprietary Component 1	Proprietary Component 2
LD50 Oral – Rat:	> 2,000 mg/kg	> 2,000 mg/kg
LC50 Inhalation – Rat:	> 5 mg/L (4h)	> 5 mg/L (4h)
LD50 Dermal - Rabbit:	No data available.	No data available.

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:	Skin- rabbit. Skin irritation occurred.
Eye irritation:	Eyes- rabbit. Eye irritation did not occur.
Respiratory or skin sensitation:	No data available.

Section 12 – Ecological Information

Toxicity	Proprietary Component 1	Proprietary Component 2
Fish:	LC50 – Brachydanio rerio – 550 mg/L – 96 h	No data available.

Persistence

Biodegradability: No data available.

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.