Safety Data Sheet

Section 1 – Chemical Product and Company Identification

Product name: PureTemp 18
Product number: 101800200
Recommended use: Thermal energy storage.
Company information: Entropy Solutions, LLC.
4232 Park Glen Road
Minneapolis, MN 55416
952-941-0306
Emergency contact: Call CHEMTREC Day or Night
1-800-424-9300 (USA)
+1 703-527-3887 (International)

Section 2 – Hazards Identification

OSHA classification: Not a hazardous substance or mixture

OSHA label elements, including precautionary statements
Not a hazardous substance or mixture

Section 3 – Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Component</th>
<th>Trade Secret</th>
<th>Proprietary</th>
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PureTemp 18 Variants: PureTemp 18X (101800200, unnucleated)
PureTemp 18N Black (101800216, nucleated)

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.

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. 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:** Faint to light musty.

**Odor threshold:** No data available.

**pH:** No data available.

**Melting point:** 18 °C (64 °F)

**Boiling point:** 323 °C (613 °F)

**Flash point:** 161 °C (322 °F)

**Evaporation rate:** No data available.

**Flammability (solid/gas):** No data available.

**Upper/lower flammability or explosive limits:** No data available.

**Vapor pressure:** 0.065 Pa at 25 °C (77 °F)

**Vapor density:** No data available.

**Relative density:** 0.855 g/mL at 20 °C (68 °F)

**Water solubility:** 0.0543 mg/L at 25 °C (77 °F)

**Partition coefficient: n-octanol/water** Log Pow: 6.49 at 20 °C (68 °F)

**Auto-ignition temperature:** 225 °C (437 °F)

**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: No data available.

Conditions to avoid: Heat, flames, sparks, extreme temperatures, and direct sunlight.

Incompatible materials: Strong oxidizing agents.

Hazardous decomposition products: Carbon monoxide with incomplete combustion.

**Section 11 – Toxicological Information**

**Acute toxicity**

LD50 Oral – Rat: > 2,000 mg/kg

LC50 Inhalation – Rat: > 5 mg/L (4h)

Dermal: 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: No data available.

Eye irritation: Eyes – rabbit. No eye irritation.

Respiratory or skin sensitization: No data available.

**Section 12 – Ecological Information**

**Toxicity**

Fish: LC50 (semi-static) – Danio rerio – 1,700 mg/L – 96 h

**Persistence**

Biodegradability: 75%, 28 d – 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. Entropy Solutions, 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.