

# Safety Data Sheet

### Section 1 - Chemical Product and Company Identification

Product name: PureTemp -21
Product number: 192120200

**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

**GHS classification**: Not a hazardous substance or mixture

#### GHS label elements, including precautionary statements

Not a hazardous substance or mixture

#### **Section 3 – Composition/Information on Ingredients**

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

PureTemp -21 Variants: PureTemp -21X Purple (192120205, 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.

Safety Data Sheet PureTemp -21 Revision: 4.2 Issue Date: 9/18/2015

**Ingestion:** Do not induce vomiting. Drink large amounts of water.

Most important symptoms and effects, both acute and

delayed:

May cause eye irritation.

Indication of any immediate medical attention and

special treatment needed: No data available

### **Section 5 – Firefighting Measures**

# **Extinguishing media**

**Suitable:** Water spray, 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. 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** 

handling:

Avoid contact with eyes. Wash thoroughly after handling. Material is

slowly corrosive to metal.

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

Safety Data Sheet PureTemp -21 Revision: 4.2 Issue Date: 9/18/2015

**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: -21 °C (-6 °F)

**Boiling point:**  $>100 \, ^{\circ}\text{C} (212 \, ^{\circ}\text{F})$ 

Flash point: No data available

**Evaporation rate:** No data available.

Flammability (solid/gas): No data available.

Upper/lower flammability or

**explosive limits:** No data available.

**Vapor pressure:** 24.5 torr at 25 °C (77 °F)

**Vapor density:** No data available.

Relative density: 1.1 g/mL at 25 °C (77 °F)

Water solubility: >10,000 mg/L at 20 °C (68 °F)

Partition coefficient: n-

octanol/water No data available.

**Auto-ignition temperature:** 

Decomposition

No data available.

temperature: No data available.

Viscosity: No data available.

**Explosive properties:** No data available.

Safety Data Sheet PureTemp -21 Revision: 4.2 Issue Date: 9/18/2015

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:** No data available.

Section 11 – Toxicological Information

Acute toxicity Proprietary Component 1 Proprietary Component 2

LD50 Oral – Rat:> 90 ml/kg3550 mg/kgLC50 Inhalation – Rat:No data available.> 42 mg/LLD50 Dermal - Rabbit:No data available.> 10 g/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:** Skin- rabbit. No skin irritation.

**Eyes**- rabbit. Slight eye irritation occurred.

Respiratory or skin

sensitation: No data available.

**Section 12 – Ecological Information** 

**Toxicity** Proprietary Component 2

**Fish:** LC50 – Lepomis macrochirus – 5840 mg/L – 96 h

Daphnia and other

aquatic invertebrates: LC50 – Daphnia magna – 4136 mg/L – 48 h

Aquatic algae and

**cyanobacteria:** EC50 – Nitzachia sp. – 2430 mg/L

**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):

IMDG:

Not dangerous goods.

Not dangerous goods.

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.