

Safety Data Sheet

Section 1 – Chemical Product and Company Identification	
Product name: Product number:	PureTemp 4 100400200
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		
CAS #	Component	
Trade Secret	Proprietary	

PureTemp 4 Variants:	PureTemp 4X Orange (100400202, unnucleated)
	PureTemp 4N Orange (100400212, nucleated)

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.

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. Eliminate all ignition sources. Evacuate personnel to safe areas. 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 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.
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 7 – Thysical and Ch	
Physical state:	Liquid/solid.
Appearance:	Clear liquid. White solid.
Odor:	Musty
Odor threshold:	No data available.
pH:	No data available.
Melting point:	4 °C (39.2 °F)
Boiling point:	262 °C (504 °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:	>0.0105 torr at 25 °C (77 °F)
Vapor density:	No data available.
Relative density:	0.87 g/mL at 25 °C (77 °F)
Water solubility:	0.00759 g/L at 25 °C (77 °F)
Partition coefficient: n- octanol/water	Log Pow: 5.43 at 20 ⁰ C (68 ^o F)
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	3.6 mm ² /sec at 20 ^o C (68 ^o F)
Explosive properties:	No data available.

Section 9 – Physical and Chemical Properties

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Revision: 4.6 Issue Date: 12/17/2015 **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:	No data available.
Conditions to avoid:	No data available.
Incompatible materials:	Strong oxidizing agents and bases.
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 (4 h)
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:	Skin- rabbit. No skin irritation, slight erythema possible.
Eye irritation:	Eyes- rabbit. No eye irritation.
Respiratory or skin sensitation:	No data available.

Section 12 – Ecological Information

<u>Toxicity</u>	
Fish:	No data available.
Algae:	No data available.
Daphnia and other aquatic invertebrates:	No data available.
<u>Persistence</u>	
Biodegradability:	78%, 28 d – Readily biodegradable
Bioaccumulative potential:	Does not bioaccumulate

No data available.

Section 13 – Disposal Considerations	
Disposal instructions:	All wastes must be handled in accordance with local, state, and federal regulations.
Section 14 – Transporta	tion Information
DOT (US):	Not dangerous goods
Section 15 – Regulatory	Information
Section 15 – Regulatory SARA Title III:	Information 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.
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