

Safety Data Sheet

Section 1 - Chemical Product and Company Identification

Product name: PureTemp 29

Product number: 102900100, 102900110, 202900100, 202900140

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

PureTemp 29 Variants: PureTemp 29X (102900100, unnucleated)

PureTemp 29X (202900100, unnucleated) PureTemp 29N (102900110, nucleated) PureTemp 29N (202900140, 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

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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.

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.

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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: $29 \,^{\circ}\text{C} \, (84.2 \,^{\circ}\text{F})$

Boiling point: 338 $^{\circ}$ C (640 $^{\circ}$ F)

Flash point: $176 \,^{\circ}\text{C} \, (349 \,^{\circ}\text{F})$

Evaporation rate: No data available.

Flammability (solid/gas): No data available.

Upper/lower flammability or

explosive limits: No data available.

Vapor pressure: 0.0079 Pa at 25 $^{\circ}$ C (77 $^{\circ}$ F)

Vapor density: No data available.

Relative density: 0.852 g/mL at 25 $^{\circ}$ C (77 $^{\circ}$ F)

Water solubility: 0.004 mg/L at 25 °C (77 °F)

Partition coefficient: n-

octanol/water Log Pow: 7.55 at 20 °C (68 °F)

Auto-ignition temperature:

Decomposition

230 °C (446 °F)

temperature: No data available.

Viscosity: 4.4 mm²/sec at 40 $^{\circ}$ C (104 $^{\circ}$ F)

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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: No data available.

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.

Eyes – rabbit. Eye irritation did not occur.

Respiratory or skin

sensitation: No data available.

Section 12 – Ecological Information

Toxicity

Fish: LC50 – Brachydanio rerio – 550 mg/L – 96 h

Persistence

Biodegradability: 80%, 14 d – Readily biodegradable

Bioaccumulative potential: No data available.

Mobility in soil: No data available.

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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.

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