

Safety Data Sheet - EU ECHA

Section 1 – Chemical Product and Company Identification

Product name: PureTemp 151
Product number: 115103300

Recommended use: Thermal energy storage.

Company information: Entropy Solutions, LLC.

151 Cheshire Lane N., Suite 400

Plymouth, MN 55441

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: Eye irritation (Category 1), H318

Acute aquatic toxicity (Category 3), H402

GHS label elements, including precautionary statements

Pictogram:

TY)

Signal word: Danger

Hazard statement(s): H318, Causes serious eye irritation.

H402, Harmful to aquatic life

Precautionary

statement(s): P273, Avoid release to the environment.

P280, Wear protective gloves/protective clothing/eye protection/face

protection.

P305 + P351, IF IN EYES: Rinse cautiously with water for several

minutes.

P337 + 313, If eye irritation persists get medical advice/attention.

P403 + P235, Store in well-ventilated place. Keep cool.

P501, Dispose of contents/container to an approved waste disposal

plant.

Section 3 – Composition/Information on Ingredients

CAS#	Component
Trade Secret	Proprietary

PureTemp 151 Variants: PureTemp 151X (115103300, unnucleated)

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. Get medical attention.

Ingestion: Rinse mouth with water. Do not induce vomiting. Consult with

physician.

Most important symptoms and effects, both acute and

delayed: Will cause eye irritation. May cause skin 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 dust. Ensure adequate ventilation. Eliminate all ignition sources. 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 Avoid contact with skin and eyes. Wash thoroughly after handling.

handling: Avoid inhalation of vapor, mist or dust. Keep away from sources of

ignition. Take measures to prevent the buildup of electrostatic charge.

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

(ĖÙ).

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: $151 \,^{\circ}\text{C} \, (304 \,^{\circ}\text{F})$

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

Flash point: 196 °C (385 °F)

Evaporation rate: No data available.

Flammability (solid/gas): No data available.

Upper/lower flammability or

explosive limits: No data available.

Vapor pressure: 0.38 hPa at 47 °C (117 °F)

Vapor density: No data available.

Relative density: 0.81 g/mL at 25 °C (77 °F)

Water solubility: 23 g/L at 25 °C (77 °F)

Partition coefficient: n-

octanol/water Log Pow: 0.093 at 25 °C (77 °F)

Auto-ignition temperature:

 $> 400 \, ^{\circ}\text{C} (752 \, ^{\circ}\text{F})$

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: 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:
 5,560 mg/kg

 LC50 Inhalation – Rat:
 > 7.7 mg/L (4h)

 LD0 Dermal - Rabbit:
 7,940 mL/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. Mild skin irritation.

Eyes – rabbit. Highly irritating. Risk of serious damage to eyes.

Respiratory or skin

sensitation: No data available.

Section 12 – Ecological Information

Toxicity

Fish: LC50 – Brachydanio rerio – > 1,000 mg/L (96 h)

Daphnia and other

aquatic invertebrates: EC50 – Daphnia magna – 46 mg/L (48 h)

Algae: EC50 – Selenastrum capricornutum - 59 mg/L (72 h)

Bacteria: EC50 – Tetrahymena pyriformis - 591 mg/L (4 h)

Persistence

Biodegradability: 83%, 30 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

ADR: 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, MN, or RI.

Proprietary component is listed as a "Right to Know" component in

MA, PA, and NJ.

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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