



## SAFETY DATA SHEET

PRODUCT NAME	Microice™ – Q1
VERSION	No. 1
REVISION DATE	November 18, 2019
MANUFACTURER	Phase Change Energy Solutions 120 East Pritchard Street Asheboro, NC
TELEPHONE	336-629-3000
FAX	336-629-3100
WEB	<a href="http://www.phasechange.com">www.phasechange.com</a>

### 1. EMERGENCY TELEPHONE NUMBER

Emergency	For questions regarding this product, first call 1-800-283-7887 If it is an emergency and there is no response, please contact the following: <b>For emergencies in the US and Canada</b> , call CHEMTREC day or night at 800-424-9300 <b>For emergencies outside US and Canada</b> , call CHEMTREC day or night at +1-703-527-3887.
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### 2. COMPOSITION/INFORMATION

CAS #	Trade Secret
COMPONENTS	Proprietary blend of natural polymers, Kosher ingredients listed on the GRAS list (Generally Recognize As Safe by the FDA), and contain no petroleum or animal fat products.

### 3. PHYSICAL & CHEMICAL PROPERTIES

APPEARANCE	Colorless liquid (above melting point)	VAPOR DENSITY (Air = 1)	Not available
ODOR	Mild odor	RELATIVE DENSITY	1 g/mL @ 25°C (77 °F)
pH	Not applicable	UPPER FLAMABILITY LIMIT (UFL)	Not available
MELTING POINT	0-1 °C	LOWER FLAMMABILITY LIMIT (LFL)	Not available
BIOLING POINT	>100 °C	SOLUBILITY IN WATER	Insoluble
FLASH POINT	Non-flammable	AUTO-IGNITION TEMPERATURE	Does not ignite
EVAPORATION RATE	Not available	VISCOSITY	N/A for gel >100,000CP @ 25°C
VAPOR PRESSURE	24 mmHg @ 25 °C (77 °F)	EXPLOSION LIMITS	Does not contain explosives
OXIDATION PROPERTIES	Does not contain oxidizing properties		

#### 4. HAZARDS IDENTIFICATION

GHS label elements, including precautionary statements		
PICTOGRAM		
SIGNAL WORD	Warning	
CLASSIFICATION	Classified as non-hazardous to humans and environment	
HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS)		
HEALTH: 0	FLAMMABILITY: 0	REACTIVITY: 0

#### 5. FIRST AID

EYE CONTACT	No significant eye irritation can be expected from normal contact. Rinse with plenty of water for 15 minutes. If eye irritation persists, seek medical advice/attention.
INHALATION	No irritation can be expected from short and medium-term exposure. If breathing is difficult, move to fresh air, or provide oxygen if breathing issues persist.
INGESTION	Rinse mouth with water and do not induce vomiting. If vomiting occurs, keep head lower than hips to help prevent aspiration.

#### 6. FIRE FIGHTING

HAZARDOUS COMBUSTION PRODUCTS	Carbon dioxide and/or low molecular weight hydrocarbons.		
EXTINGUISHING MEDIA	Water, foam, dry chemicals, or carbon dioxide.		
FIRE FIGHTING INSTRUCTIONS	<b>As in any other fire accidents</b> , firefighters should wear protective clothing, including a self-contained breathing apparatus.		
NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) RATING			
HEALTH: 0	FLAMMABILITY: 0	REACTIVITY: 0	PERSONAL PROTECTION: H

#### 7. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS	Avoid ingestion or eye contact. If a mist or vapor is generated, move to fresh air.
ENVIRONMENTAL PRECAUTIONS	Minimize contamination surface water, ground water, and drains.
METHODS FOR CLEANING UP SPILLS	Absorb with inert material, such as sand or dry earth, and place mixture into appropriate containers for disposal.

#### 8. HANDLING & STORAGE

HANDLING	No special personal protection is required under normal handling conditions. However, gloves and goggles are recommended.
STORAGE	Keep away from heat, sparks, or open flames.
SAFE STORAGE/ TRANSPORT PRESSURE	Ambient.

#### 9. CHEMICAL STABILITY & REACTIVITY INFORMATION

REACTIVITY	Not a self-reactive substance.
CHEMICAL STABILITY	Stable under normal temperatures and pressure.
CONDITIONS TO AVOID	Heat, flames, sparks and other sources of ignition.
MATERIALS TO AVOID	Incompatible materials/oxidizing agents and strong bases
HAZARDOUS REACTIONS	Will not polymerize
HAZARDOUS DECOMPOSITION PRODUCTS	Thermal decomposition will evolve carbon dioxide and/or low molecular weight hydrocarbons which may include irritant vapors
THERMAL DECOMPOSITION PRODUCTS	Oxides of carbon and water

**10. EXPOSURE CONTROLS/PERSONAL PROTECTION**

EXPOSURE LIMITS	No exposure limits have been established for this product.
EXPOSURE GUIDELINES	Wash the exposed area(s) with warm water and soap.
VENTILATION	No respiratory protection is required under normal handling conditions.
PERSONAL PROTECTIVE EQUIPMENT	No special personal protection is required under normal handling conditions. However, gloves and goggles are recommended.
SKIN/BODY PROTECTION	No special personal protection is required under normal handling conditions. However, gloves and goggles are recommended.
EYE PROTECTION	No eye protection is required under normal handling conditions.
ENGINEERING MEASURES	No special engineering measures are needed.

**11. TOXOLOGICAL INFORMATION**

EYE EFFECTS	No significant eye irritation can be expected from contact with this product.
SKIN EFFECTS	No skin irritation can be expected from short-term exposure to this product. Skin – rabbit; Result: No skin irritation
SUBCHRONIC EFFECTS	No known effects.
CHRONIC EFFECTS	No known effects.
MUTAGENICITY	No data available for this product.
TERATOLOGY	No data available for this product.
CARCINOGENICITY	Not listed by ACGIH, IARC, NTP, DFG, OR OSHA
CHEMICAL NAME DATA AGENCY	No limits established for this product

**12. DISPOSAL CONSIDERATIONS**

Disposal methods should be in accordance with local, state, and national environmental laws and regulations.
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**13. TRANSPORT INFORMATION**

DOT SHIPPING INFORMATION	Not classified
PROPER SHIPPING NAME	Non-hazardous material
PACKING GROUP	Not applicable
LAND TRANSPORT ADR/RID/ADN	Not classified
U.S. DOT INFORMATION	Not classified

**14. REGULATORY INFORMATION**

GHS CLASSIFICATION	Not classified as a hazardous material to humans or the environment		
U.S. FEDERAL REGULATIONS	No product components are listed under: CERCLA (40 CFR 302.4) and SARA Sections: 302 (40 CFR 355), 311/312 (40 CFR 370.21), 313 (40 CFR 372.65)		
<b>CHEMICAL INVENTORY LISTING</b>			
Europe (EINECS): Compliant	USA (TSCA): Compliant	Canada (DSL): Compliant	Australia (AICS): Compliant
Japan (ENCS): Compliant	China (IECSC): Compliant	Korea (ECL): Compliant	Philippines (PICCS): Compliant