



SECTION 1: IDENTIFICATION

Product Identifier

Product form:	Liquid Substance @ 25°C
Product Name:	PCM-OM05P
CAS No:	8002-74-2
Synonyms:	Tetradecane
Intended Use of the Product	
Use of substance/mixture:	Latent Heat Storage, Thermal reservoirs

Name, Address, and Telephone of the responsible Party

Name:	RGEES LLC
Address:	170 Bradley Branch Rd Ste 7
	Arden, NC 28704
Phone:	+1.828.708.7178
Email:	operations@rgees.com

Emergency Telephone Number

+1.828.708.7016 for Chemical Emergency, Spill, Leak, Fire, Exposure, or Accident.

SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

Classification (GHS):	Acute Toxicity-Oral 05, Eye Irritation-2B
Labeling	
Hazard Pictograms (GHS): Signal Word (GHS): Hazard Statement: Precautionary Statements (GHS):	No Hazard Pictograms (GHS) required Warning H303 - May be harmful if swallowed P210 - Keep away from heat/sparks/open flames/hot surfaces - No smoking P221 - Take any precaution to avoid mixing with combustibles P402 + P404 - Store in a dry place in a closed container P312 - Get medical advice/attention if you feel unwell Dispose of contents/container in accordance with local/regional/ national and international
Other Hazards	regulations.
Other Herende Net Contributing	

Other Hazards Not Contributing to the Classification: Unknown Acute Toxicity (GHS-US)

No additional information available No data available



SECTION 3: COMPOSITION/ INFORMATION ON INGREDIENTS

Substance

Name	Product Identifier	%	Classification (GHS)
savENRG [®] PCM-OM05P	-	100	Acute Toxicity-Oral 05

Full text of H-phrases: see section 16

Mixture

Composition			
Chemical Name	Identifiers	%	Classifications According to Regulations/Directives
Mixture of Organic	CAS: 8002-74-2	0-100	EU DSD/DPD: Not available
Chemicals	EC Number: Not available		EU CPL: Not available OSHA HCS 2012: Not available

SECTION 4: FIRST AID MEASURES

Description of First Aid Measures

First-aid Measures General:	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label if possible). Do not rub affected area. Get immediate medical attention.
First-aid Measures After Inhalation:	Expose to fresh air if affects occur. Seek medical attention immediately.
First-aid Measures After Skin Contact:	Wash off in flowing water or shower. Remove contaminated cloth immediately. Seek medical attention.
First-aid Measures After Eye Contact:	Irrigate with flowing water immediately and continuously for 15 minutes. Seek medical attention.
First-aid Measures After Ingestion:	Wash the mouth with plenty of water. Call a physician. Never give anything by mouth or attempt to induce vomiting in an unconscious person.
Most important symptoms and e	effects, both acute and delayed
Symptoms/Injuries after Inhalation: Symptoms/Injuries after Skin Contact:	May cause irritation to respiratory tract. May cause irritation. May cause severe irritation, if skin is damp and/or abraded, or the material is confined to skin

symptoms/Injuries After Eye Contact:material is confined to skin.Symptoms/Injuries After Ingestion:May cause moderate to severe irritation, including corneal injury.Symptoms/Injuries After Ingestion:Ingestion may be harmful and may cause gastrointestinal irritation.Chronic Symptoms:None expected under normal conditions of use.

Indication of Any Immediate Medical Attention and Special Treatment Needed

If you feel unwell, seek medical advice (show the label where possible).

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media:	Use extinguishing media appropriate for surrounding fire. Use Foam, dry chemicals, CO2 as extinguishing media. Summon fire department immediately.	
Unsuitable Extinguishing Media:	Avoid inert adsorbents.	
Special Hazards Arising From the Substance or Mixture		
Fire Hazard:	When heated to decomposition may produce irritant fumes. Remove from vicinity containers NOT involved in fire.	
Explosion Hazard:	Under explosion, the material will be flammable	





Reactivity:

Advice for Firefighters

Precautionary Measures Fire: Firefighting Instructions:

Protection during Firefighting:

Avoid contact with oxidizing materials.

Exercise caution when fighting any chemical fire. Shut off source of fuel if possible, and allow fire to burn out. Remove containers from fire area if this can be done without risk. Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe. Use water spray or fog for cooling exposed containers.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

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General Measures:	Keep away from heat/sparks/open flames/hot surfaces. No smoking. Do not breathe gas. Avoid contact with the skin and the eyes.
For Non-emergency Personnel	

Protective Equipment:	Use appropriate personal protection equipment (PPE).
Emergency Procedures:	Evacuate unnecessary personnel. Keep upwind.

For Emergency Responders

Protective Equipment: **Emergency Procedures:** Equip cleanup crew with proper protection. Eliminate ignition sources. Ventilate area.

Environmental Precautions

Avoid release to the environment.

Methods and Material for Containment and Cleaning Up

For Containment:	Stop leak if safe to do so.
Methods for Cleaning Up:	Stop the source of the release, if safe to do so. Ventilate and test area before entering.
	Contact competent authorities after a spill.

Reference to Other Sections

See Section 8, Exposure Controls and Personal Protection.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

Additional Hazards When Processed: Hygiene Measures:	Risk of explosion if heated under confinement. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Use only non-sparking tools. Handle in accordance with good industrial hygiene and safety procedures. Use only outdoors or in a well-ventilated area. Do not eat, drink or smoke when using this product.
Conditions for Safe Storage, Inclu	uding Any Incompatibilities
Technical Measures:	Check material compatibility of the container that will be used for encapsulating the PCM. The container must be closed-sealed system.
Storage Conditions:	Protect container from physical shock. Store in a cool, dry and well-ventilated place. Keep containers tightly closed. Do not store near heat, flame, or other potential ignition sources. Do not store in unlabeled containers. Ground all equipment containing this material. All electrical equipment in areas where this material is stored or handled must meet all applicable requirements of the NFPA's National Electrical Code (NEC). Store and transport in accordance with all applicable laws.
Specific End Use(s):	Latent Heat Storage





SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

Control Parameters

USA ACGIH	ACGIH TWA (ppm)	0

Exposure Controls

Appropriate Engineering Controls:

Use explosion-proof equipment. Proper grounding procedures to avoid static electricity should be followed. Gas detectors should be used when flammable gases/vapors may be released. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed. Protective goggles. Gloves. Protective clothing. Self-contained breathing apparatus.

Personal Protective Equipment:

Materials for Protective Clothing:
Hand Protection:
Eye Protection:
Skin and Body Protection:
Respiratory Protection:
Thermal Hazard Protection:

Wear fire/flame resistant/retardant clothing. Wear protective gloves. Chemical goggles or safety glasses Wear suitable protective clothing Use an approved air-purifying respirator. If material is cold, wear thermally resistant protective gloves.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Appearance: Odor: Odor Threshold: nH. **Relative Evaporation Rate:** Melting Point: Freezing: **Boiling Point:** Flash Point: **Decomposition Temperature:** Flammability (solid, liquid, gas): Vapor Pressure: Relative Vapor Density at 20°C: **Relative Density:** Liquid Density: Solid Density: Specific Gravity: Solubility: Partition Coefficient: Viscosity: Lower Flammable Limit: Higher Flammable Limit: Latent Heat:

Liquid @ 25°C Clear liquid at room temperature Waxy Odor No data available No data available No data available 6°C 5°C No data available 200°C No data available Not classified No data available No data available No data available 763 kg/m³ 820 kg/m³ No data available Insoluble in water, Soluble in organic solvents No data available No data available Not Applicable Not Applicable 215 kJ/kg



SECTION 10: STABILITY AND REACTIVITY

Reactivity: Chemical Stability: Possibility of Hazardous Reactions: Conditions to Avoid: Incompatible Materials: Hazardous Decomposition Products: Reacts with oxidizers: (increased) risk of fire. Stable under recommended handling and storage conditions (see section 7). May explode if heated. Hazardous polymerization will not occur. Incompatible materials, Sparks, heat, open flame and other sources of ignition. Strong oxidizers. Carbon oxides (CO, CO2)

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity:	Not classified
Skin Corrosion/Irritation:	Not classified
Serious Eye Damage/Irritation:	Not classified
Respiratory or Skin Sensitization:	Not classified
Germ Cell Mutagenicity:	Not classified
Carcinogenicity:	Not classified
Reproductive Toxicity:	Not classified
Specific Target Organ Toxicity	
(Single Exposure):	Not classified
Specific Target Organ Toxicity	
(Repeated Exposure):	Not classified
Aspiration Hazard:	Not classified
Symptoms/Injuries After Inhalation:	May cause irritation to respiratory tract
Symptoms/Injuries After Skin Contact:	None expected under normal conditions of use.
Symptoms/Injuries After Eye Contact:	None expected under normal conditions of use.
Symptoms/Injuries After Ingestion:	None expected under normal conditions of use.
Chronic Symptoms:	None expected under normal conditions of use.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity: Persistence and Degradability: Bio accumulative Potential: Mobility in Soil: Other Adverse Effects: No additional information available No additional information available No additional information available No additional information available Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Recommendations:	Dispose of waste material in accordance with all local, regional, national, provincial, territorial
Additional Information:	and international regulations. Handle empty containers with care. Recycle the material as far as possible. For further information, refer to section 16.

SECTION 14: TRANSPORTATION INFORMATION

DOT: IMDG: IATA: Proper Shipping Name: Not Classified as Dangerous Goods Not Classified as Dangerous Goods Not Classified as Dangerous Goods Mixture of paraffins





SECTION 15: REGULATORY INFORMATION

US Federal Regulations

OSHA Hazards HCS 2012: SARA Section 311/312 Hazard Class: TSCA Inventory:	Not Available Immediate health/Fire hazard Listed
US State Regulations	
U.S. – Delaware:	Accidental Release Prevention Regulations - Sufficient Quantities, Pollutant Discharge Requirements - Reportable Quantities, Volatile Organic Compounds Exempt from Requirements
U.S. – Massachusetts:	Right To Know List, Volatile Organic Compounds Exempt From Requirements
U.S. – Minnesota:	Hazardous Substance List
U.S. – New Jersey:	Discharge Prevention - List of Hazardous Substances, Environmental Hazardous Substances List, Excluded Volatile Organic Compounds, Right to Know Hazardous Substance List, Special Health Hazards Substances List, TCPA - Extraordinarily Hazardous Substances (EHS)
U.S. – Ohio:	Accidental Release Prevention - Threshold Quantities
U.S. – Oregon:	Permissible Exposure Limits - TWAs
U.S. – Pennsylvania:	RTK (Right to Know) List
U.S. – Texas:	Effects Screening Levels - Long Term, Effects Screening Levels - Short Term

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF LAST REVISION

Revision Date	06/10/2019 525R0
Other Information	This document has been prepared in accordance with the SDS requirements of the GHS and OSHA Hazard Communication Standard 29 CFR 1910.1200
GHS Full Text Phrases:	
H303	May be harmful of swallowed