

SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION

PEKUTHERM PURGING COMPOUND N, SM, SK, EX	
MANUFACTURER'S NAME - UNITEMP, INC.	EMERGENCY TELEPHONE NUMBER 269-408-0280
ADDRESS - 1043 E. JOHN BEERS RD. ST. JOSEPH, MI 49085-9334	TELEPHONE NUMBER FOR INFORMATION 269-408-0280
DATE PREPARED – January 01, 2018	

SECTION 2 – HAZARD IDENTIFICATION

HAZARDOUS COMPONENTS	OSHA PEL	ACGIH-TLV
TSCA STATUS – All chemical substances found in this product comply with the Toxic Substances Control Act inventory reporting requirements. This mixture is not classified as hazardous according to Regulation (EC) No. 1272/2008. EPA SARA TITLE III CHEMICAL LISTINGS: SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES – NONE SECTION 304 CERCLA HAZARDOUS SUBSTANCES – NONE SECTION 312 HAZARD CLASS – ACUTE: NONE – CHRONIC: NONE – FIRE: NONE – PRESSURE: NONE – REACTIVE: NONE SECTION 313 TOXIC CHEMICALS – NONE PRESENT IN REGULATED QUANTITIES.		

The product is not subject to labelling.

This mixture does not present any hazard for both humans and environment when handled properly. Dust may develop due to the abrasion of the pellets when subjected to mechanical stress, which may cause mechanical irritation. Danger of skin burns by hot melt. Spilled pellets cause increased danger of slipping.

The product does not meet the PBT or vPvB criteria in Annex XIII of the REACH Regulation.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

CONSTITUENT MATERIAL: POLYMETHYL METHACRYLATE	FORMULA (C ₅ H ₈ O ₂)
TRADE NAME: PMMA	HMIS: 100B
C.A.S. REGISTRATION: 9011-14-7 100%	

The components of this product are embedded into an impenetrable matrix and are therefore biologically not available. Several hazardous components are bound within the polymermatrix and are not dangerous if handled under normal processing and handling conditions. The additives in this product do not pose any risk of danger, if they are not released (by emitted smoke when melted, dusts).

SECTION 4– FIRST-AID MEASURES

4.1. Description of first aid measures

First-aid worker: Pay attention to self-protection!

Remove persons from danger area and lie them down. Never orally infuse something to an unconscious person. No special first aid measures necessary. A vomiting, supine person must be brought into recovery position.

After inhalation

In case of inhalation of decomposition products, affected person should be moved into fresh air and kept still. Seek medical attention if problems persist.

After contact with skin

After contact with skin, wash immediately with: Water. Change contaminated clothing.

After skin contact with melted product: 1. quickly cool with water (not ice), 2. do not pull off melted product from skin, 3. burns caused by the melted product must be treated medically.

After contact with eyes

If foreign bodies have gotten into the eyes, do not rub them. Rinse immediately carefully and thoroughly with eye-bath or water.

In case of troubles or persistent symptoms, consult an ophthalmologist.

After ingestion

No special measures are necessary. If swallowed, drink water.

Seek medical attention if problems persist.

4.2. Most important symptoms and effects, both acute and delayed

Burns caused by molten product.

Dust generation may cause eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 – FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Atomized water. Water fog. Dry extinguishing powder. Foam. Carbon dioxide (CO₂).

Fight larger fires with water spray jet or alcohol-resistant foam.

In case of fire: Wear self-contained breathing apparatus. Protective clothing. .

SECTION 6 – ACCIDENTAL RELEASE MEASURES

IN CASE OF ACCIDENTAL SPILL OR RELEASE – Can be swept up in same manner as any other spilled plastic pellet. High slip hazard because of leaking or spilled product. Provide adequate ventilation. Avoid generation of dust. Do not breathe dust. When danger of exothermic decomposition due to overheating (temperature increase, smoke formation), cool off melt in water.

WASTE DISPOSAL METHOD – State and local ordinance/normal chemical waste incinerator. Preferably prevent the material from infiltrating the canalization or water courses. Do not contaminate surface waters

SECTION 7 – HANDLING AND STORAGE

PRECAUTIONS – Keep container tightly closed and dry. Protect against contaminations. Take precautionary measures against static discharges.

Usual polymer storage. Dry, cool area. Avoid heat.

CONDITIONS TO AVOID – Do not exceed maximum temperature of 572°F.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Avoid contact with skin, eyes and clothes. Remove contaminated, saturated clothing immediately. Protect skin by using skin protective cream. After work, wash hands and face. When using do not eat or drink.

Eye/face protection

In the case of the formation of dust. Tightly sealed safety glasses.

Hand protection

Protect skin by using skin protective cream. Wear suitable gloves.

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

Suitable material: Protective gloves made from PVC, fabric or leather (providing insulation against the melted product).

Heat resistant workwear with long sleeves and pants when handling melted product.

Skin protection

Heat resistant workwear with long sleeves and pants when handling melted product.

Respiratory protection

In case of dust development: Use face mask.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Bulk density (at 20 °C): 700 kg/m ³	Specific Gravity (H ₂ O = 1) - 1.18
Water solubility: insoluble	Melting Point - Not applicable
Solubility in other solvents: no data available	Evaporation Rate (Butyl Acetate = 1) - 0
Appearance and Odor - Clear, colorless crystal, odorless	

9.1. Information on basic physical and chemical properties

Physical state: Granulate

Test method

pH-Value: not applicable

Initial boiling point and boiling range: > 110 °C

Softening point: > 250 °C

ASTM D 56

Flash point:

Flammability No data available

Solid: not applicable

Gas: No data available

Explosive properties not applicable

Lower explosion limits: not applicable

Upper explosion limits: > 400 °C Ignition temperature:

Auto-ignition temperature No data available

Solid: No data available

Gas: No data available

Decomposition temperature: >250 °C

Oxidizing properties not applicable

Vapor pressure: Density (at 20 °C): 1,19g/cm

Bulk density (at 20 °C): 700 kg/m³

Water solubility: insoluble

Solubility in other solvents

No data available

Partition coefficient: not applicable

Viscosity / dynamic:

Viscosity / kinematic: not applicable

Vapor density: not applicable

Evaporation rate: No data available

SECTION 10 – STABILITY AND REACTIVITY.

Incompatibility (<i>Materials to Avoid</i>)	None known
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Hazardous Polymerization will not occur.
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CONDITIONS TO AVOID – Oxidizing agents, strong acid.
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Do not exceed maximum temperature. In case of thermal decomposition, fire or during smoldering, gases and vapors might be created which are harmful to health (carbon monoxide, carbon dioxide, Nitrogen oxides (NO _x), hydrogen cyanide, ketones, organic acids, formaldehyde, sulfuric acid carbon disulfide).

HEALTH HAZARDS – ACUTE- Warm fumes irritant to eyes and respiratory tract. CHRONIC – Same as acute.

SECTION 11 – TOXICOLOGICAL INFORMATION

ROUTE(S) OF ENTRY –	INHALATION – YES	SKIN – NO	INGESTION – NO
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SYMPTONS RELATED TO EXPOSURE- INHALATION OF FUMES WHILE PURGING MAY IRRITATE PRE=EXISTING RESPIRATORY CONDITIONS. WATERING EYES. POSSIBLE DIFFICULTY BREATHING.

CARCINOGENICITY-	NTP – NO	IARC MONOGRAPHS – NO	OSHA REGULATED - NO
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SECTION 12 – TRANSPORT INFORMATION

HS TARIFF CLASSIFICATION NUMBER – 3402.90.5030
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DESCRIPTION – PLASTIC GRANULATE – ACRYLIC BASED

SECTION 13 – DATED PREPARED

JANUARY 01, 2018

IN COMPLIANCE WITH THE CFR for FDA FOOD CONTACT SAFETY:

CODE OF FEDERAL REGULATIONS

TITLE 21, CHAPTER I, SUBCHAPTER B, PART 177.1010