

SAFETY DATA SHEET



1. Product and Company Identification

Product Name: HMT-4188

Hot Melt Technologies, Inc.

1723 W Hamlin Road

Rochester Hills, MI 48309

For additional emergency, health, safety, or regulatory information, call 248-853-2011 during business hours.

Product Use: Product Assembly Adhesive

Not recommended for: structural applications.

2. Hazards Identification

GHS Ratings:

There are no GHS ratings that apply to this product at this time

GHS Hazards

There are no GHS hazards that apply to this product at this time

GHS Precautions

P103	Read label before use
P281	Use personal protective equipment as required
P302	IF MOLTEN MATERIAL ON SKIN: Immediately immerse in or flush with large amounts of cool water to dissipate heat. Do not try to remove adhesive. Cover with clean cotton and get prompt medical attention
P304+P341	IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing
P308+P313	IF exposed or concerned: Get medical advice/attention

3. Composition Information on Ingredients

Unlisted ingredients are not 'hazardous' per the Occupational Safety and Health Administration Hazard Communication Standard (29 CFR 1910.1200) and/or are not found on the Canadian Workplace Hazardous Materials Information System ingredient disclosure list. See Section 8 for exposure limit guidelines.

Chemical Name	CAS number	Weight Concentration %

No reportable quantities of hazardous materials present

4. First Aid Measures

Inhalation: Not likely. Move victim to fresh air if needed.

Eye Contact: For material in supplied state - immediately flush eyes with plenty of water for at least 15 minutes- occasionally lift eyelids. Call a physician if irritation persists.

Skin Contact: For contact with material as supplied- wash with soap and and water. For molten adhesive- immediately immerse in or flush with large amounts of cold water to dissipate heat. Cover with clean cotton and get prompt medical attention.

Ingestion: Not likely in normal use. If swallowed, do not induce vomiting. Give 2 glasses of water (16oz.) and contact a physician.

Notes to Physician: Product in original form should pose no hazard. Material is heated to apply. Molten material may cause burns.

5. Firefighting Measures

Flash Point: Not determined

LEL: N/A

UEL: N/A

Flammable Limits: Not established

Extinguishing Media: Water spray of fog, CO2, or dry chemical. Use care not to splash adhesive.

Unusual Fire and Explosion Hazards: Material will burn in a fire.

Hazardous Combustion Products: None hazardous. Carbon dioxide, carbon monoxide and various hydrocarbons.

Firefighting: Wear self-contained breathing apparatus.

Fire Equipment: Wear self-contained breathing apparatus. Keep containers cool to prevent rupture.

6. Accidental Release Procedures

Spillage: Ensure that all clean-up personnel wear all appropriate protective equipment. Do not allow material to get into sewer or waterway. Material in pellet form can present a slip hazard.

Small Spills: Sweep or vacuum materials. Dispose in trash. Material in pellet form can present a slip hazard.

Large Spills: Sweep or vacuum materials. Dispose of as non hazardous waste. Material in pellet form can present a slip hazard.

7. Handling and Storage

Handling: Routine housekeeping should be in place to assure that material does not accumulate on surfaces. Clean up small spills.

Storage Requirements: Normal storage temperatures in a dry warehouse.

Regulatory Requirements: During melt processing air removal or air flow may be necessary.

8. Exposure Control and Personal Protection

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
		Not Established	Not Established

No reportable quantities of hazardous materials present

Engineering Controls: Ventilation should be sufficient to control airborne levels/fumes.

Ventilation: Use in a properly ventilated area.

Administrative Controls: Use good personal hygiene when handling this product. Wash hands after use, before smoking, eating, or using the toilet.

Protective Gear: Wear safety glasses near extrusion and fill points. Wear heat resistant gloves when working near molten material.

Contaminated Gear: Use care if molten material is on gear. Do not try to remove until it has cooled.

9. Physical and Chemical Properties

Properties are supplied for safety, health and environmental considerations and may not fully represent product specifications.

Freezing point: Not applicable	Solubility: Insoluble in water
Boiling range: Not determined	Flash point: Not determined
Evaporation rate: Not determined	Flammability: Not determined
Explosive Limits: Not determined	Partition coefficient (n-octanol/water): Not determined
Autoignition temperature: Not determined	Appearance: Yellow to amber solid
Odor: Resinous	Vapor Pressure: Not determined
Odor threshold: Not determined	Vapor Density: Heavier than air
pH: Not applicable	Specific Gravity: 0.93
Mettler: 318°F	Decomposition temperature: Not determined
Viscosity: 8,000 - 11,000 cps@350°F	VOC: Not determined

10. Stability and Reactivity

Stability:

STABLE

Incompatible Materials:

Hazardous Decomposition Products:

Hazardous polymerization will not occur.

11. Toxicological Information

Mixture Toxicity

Toxicity: Information appears only if there are issues that need to be considered.

Routes of Entry: Material in furnished state does not pose any hazards.

Target Organs: Exposure to this material may affect the following organs:

Skin: Contact with molten material can cause burns.

Eyes: Vapors from molten product might cause eye irritation.

Respiratory System: Vapors from molten product might cause nose irritation.

Effects of Overexposure

Carcinogenicity: None

Acute Toxicity: None

Conditions Aggravated: Hot fumes may cause eye, skin or respiratory irritations

Chronic Effects: None known.

12. Ecological Information

Ecological: Any information available follows.

13. Disposal Considerations

Disposal: Reclaim if feasible. If disposal is required, dispose of material and waste in a sanitary landfill or incinerate in an industrial, commercial, or municipal incinerator.

14. Transport Information

Transportation Instructions: The data provided in this section is for information only and may not be specific to your package size or mode of transport. You will need to apply the appropriate regulations to properly classify your shipment for transportation.

<u>Agency</u>	<u>Proper Shipping Name</u>	<u>UN Number</u>	<u>Packing Group</u>	<u>Hazard Class</u>
DOT	Not regulated			
IATA	Not regulated			

15. Regulatory Information

The following information is provided based upon the best information at our disposal.

This product does not contain any materials subject to California Proposition 65.

<u>Country</u>	<u>Regulation</u>	<u>All Components Listed</u>
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EU Risk Phrases

R33: Danger of cumulative effects

Safety Phrase

S36: Wear suitable protective clothing

All components of this product are on the TSCA Inventory or are exempt from TSCA requirements.

This product is not considered hazardous according to regulatory guide lines.

SARA Title III.

Product Classification under SARA 311: Acute (no), Fire (no), Reactive (no), Pressure (no).

Product Classification under SARA 355: This product contains no extremely hazardous substances.

16. Other Information

Hazardous Material Information System (HMIS)

HEALTH		1
FLAMMABILITY		1
PHYSICAL HAZARD		0
PERSONAL PROTECTION		B

HMIS & NFPA Hazard Rating Legend

* = Chronic Health Hazard

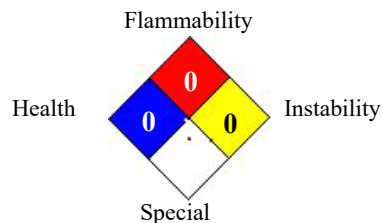
0 = INSIGNIFICANT

1 = SLIGHT

2 = MODERATE

3 = HIGH

National Fire Protection Association (NFPA)



DISCLAIMER - The warranty, as stated above, supersedes all other warranties, express or implied. Hot Melt Technologies expressly disclaims any other warranties, including warranties of merchantability and fitness for a particular purpose. Hot Melt Technologies' acceptance of purchaser's order for this product is expressly conditional on purchaser's assent to terms and conditions set forth herein. Regardless of whether Hot Melt Technologies suggested the product or developed the product at the purchaser's request, it is the purchaser's responsibility to test and determine the suitability of the product for the purchaser's intended use and purpose, and purchaser assumes all risk and liability whatsoever.

We believe the information included on this Material Safety Data Sheet to be correct, to the best of our knowledge. The recommendations and suggestions herein are made without guarantee or representation as to results. We recommend that tests be made in a laboratory or plant to determine if this product meets all of your requirements. It is the responsibility of the buyer/user to determine the suitability of this product for his/her application/requirements.