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SAFETY DATA SHEET

1. Product and Company Identification

Product Name: HM101K

Ellsworth Adhesives
W129 N10825 Washington Drive
Germantown, WI 53022
(262) 253-8600

Emergency Phone Number (24 hours/day)
Chemtrec: 800-424-9300

For additional health, safety, or regulatory information, call 262-253-8600 during business hours.

Product Use: Hot melt adhesive for paper and packaging
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+P334	IF ON SKIN: Immerse in cool water/wrap in wet bandages
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
P333+P313	If skin irritation or a rash occurs: 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.

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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 handing this product. Wash hands after use, before smoking, eating, or using the toilet.

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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.

Specific Gravity	.96	**Ring and Ball softing point:**	Not determined
Freezing point:	Not determined	**Solubility:**	Insoluble in water
Boiling range:	Not determined	**Flash point:**	Not determined
Evaporation rate:	Not determined	**Explosive Limits:**	Not determined
Evaporation rate:	Not determined	**Flammability:**	Not determined
Partition coefficient (n-octanol/water):	Not determined	**Autoignition temperature:**	Not determined
Decomposition temperature:	Not determined	**Viscosity:**	800 - 1,200cps @350F
Odor:	Resinous	**Vapor Pressure:**	Not determined
Odor threshold:	Not determined	**Vapor Density:**	Not determined
pH:	Not applicable	**Appearance:**	yellow to Amber solid

10. Stability and Reactivity

Stability:

STABLE

Incompatible Materials:

Hazardous Decomposition Products:

Hazardous polymerization will not occur.

11. Toxicological Information

Mixture Toxicity

Oral Toxicity LD50: 3,478mg/kg

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

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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:

Agency	Proper Shipping Name	UN Number	Packing Group	Hazard Class
DOT	Not regulated			
IATA	Not regulated			

15. Regulatory Information

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

Country	Regulation	All Components Listed

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

For any valid claim presented under the limited warranty, manufacturer will replace the product, or, at its option, refund the purchase price. This replacement/refund resolution is the purchaser's sole and exclusive remedy against manufacturer. The purchaser agrees that no other resolution (including but not limited to lost profits, lost sales, injury to person or property or any other incidental or consequential loss) shall be available to purchaser for claims arising out of any use of the product regardless of the legal theory (contract, tort or other). In no event will manufacturer be obligated to pay damages to purchaser in any amount exceeding the price that the purchaser paid for the product. Manufacturer warrants that our products are manufactured in accordance with manufacturer specifications in effect on the date of manufacture. These specifications are available upon request. This Warranty does not cover test data, or any defects, damages or other harms caused to any extent or in any way by failure to follow applicable manufacturer instructions, if any, or abuse /misuse of the product.

Any claim made or action commenced by purchaser/end user under manufacturer limited warranty as set forth herein must be brought within one

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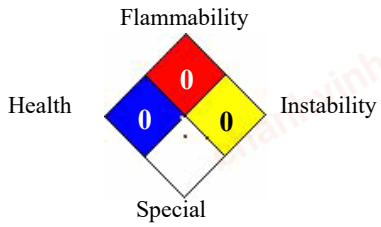
year from date of shipment from manufacturer to the purchaser. Purchaser agrees that all disputes arising from manufacturer sale of product to purchaser shall be brought, if at all, in and before a court located in the state of Wisconsin, to the exclusion of the courts of any other state.

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. Ellsworth Adhesives expressly disclaims any other warranties, including warranties of merchantability and fitness for a particular purpose. Manufacturers 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 manufacturer 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.

Reviewer Revision

Date Prepared: 4/3/2019