MATERIAL SAFETY DATA SHEET

Prepared to U.S. OSHA, CMA, ANSI, Canadian WHMIS Standards, Australian WorkSafe, Japanese Industrial Standard JIS Z 7250:2000, and European Union standards

1. PRODUCT IDENTIFICATION

TRADE NAME (AS LABELED):	**Hot Melt Glue**
PRODUCT NUMBERS:	601, 701, 702, 707, 708, 711, 724, 725, 726, 727, 735, 738, 739, 3120, 3130, 3140, 3145, 3150, 3170, 3190, 3210, 3220, 3240, All DT, GL, CO and HL series
CHEMICAL NAME:	Hot Melt Glue
PRODUCT USE:	Hot Melt Adhesive
MANUFACTURER'S NAME:	**FPC Corporation**
ADDRESS:	355 Hollow Hill Drive Wauconda, IL 60084
BUSINESS PHONE:	847-487-4583
FAX NUMBER:	847-487-0174
DATE OF PREPARATION:	December 4, 2013

2. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW:

Product Description: This product is a solid in various colors, with no odor.

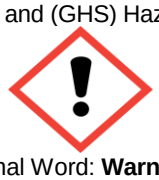
Health Hazards: Contact with molten material will cause thermal burns. This product is not expected to cause adverse health effects when used as intended. Prolonged or extended contact with product may cause skin irritation. Direct contact with eyes may cause irritation. Ingestion of this product is not a likely route of entry. May cause gastrointestinal irritation if swallowed.

Flammability Hazards: This product is combustible above flash point >450°F (>232°C) if exposed to ignition source.

Reactivity Hazards: None known.

Environmental Hazards: This material is not expected to be an environmental hazard

Emergency Considerations: Emergency responders must wear the proper personal protective equipment (and have appropriate fire-suppression equipment) suitable for the situation to which they are responding.

US DOT SYMBOLS	CANADA (WHMIS) SYMBOLS	EUROPEAN and (GHS) Hazard Symbols
Non-Regulated Materal	**Not Controlled**	

Signal Word: **Warning!**

EU LABELING AND CLASSIFICATION:

Classification of the substance or mixture according to Regulation (EC) No1272/2008 Annex 1

CAS# 24937-78-8 is not listed in ESIS
CAS# 69430-35-9 is not listed in ESIS
EC# 232-479-9 This substance is not classified in the Annex I of Directive 67/548/EEC
CAS# 68441-37-2 is not listed in ESIS
CAS# 9002-88-4 is not listed in ESIS
Substances not listed either individually or in group entries must be self classified

COMPONENT(S) DETERMINING HAZARD:

All Ingredients

GHS Hazard Classification(s):

Acute Oral Toxicity Category 5
Eye Irritant Category 2B
Acute Dermal Toxicity Category 5

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Hazard Statement(s):
H320: Causes eye irritation
H303: May be harmful if swallowed
H313: May be harmful in contact with skin

Precautionary Statement(s):
P264: Wash hands thoroughly after handling
P270: Do not eat, drink or smoke when using this product
P280: Wear protective gloves/protective clothing/eye protection/face protection

EU HAZARD CLASSIFICATION PER DIRECTIVE 1999/45/EC:
[Xi] Irritant

Risk Phrases:
R22: Harmful if swallowed
R36/38: Irritating to eyes and skin

Safety Phrases:
S24/25: Avoid contact with skin and eyes
S46: if swallowed, seek medical advice immediately and show container or label.

HEALTH HAZARDS OR RISKS FROM EXPOSURE:

ACUTE: Contact with molten material will cause thermal burns. This product is not expected to cause adverse health effects when used as intended. Prolonged or extended contact with product may cause skin irritation. Direct contact with eyes may cause irritation. Ingestion of this product is not a likely route of entry. May cause gastrointestinal irritation if swallowed. Not expected to cause respiratory irritation.

CHRONIC: None known

TARGET ORGANS: ACUTE: Eye, Skin CHRONIC: None known

3. COMPOSITION and INFORMATION ON INGREDIENTS

Hazardous Ingredients:	CAS #	EINECS #	ICSC #	WT %	Hazard Symbol; Risk Phrases
Ethylene Vinyl Copolymer	24937-78-8	Not Listed in ESIS	Not Listed	55 - 75%	HAZARD CLASSIFICATION: [Xi] Irritant RISK PHRASES: R36/38
Resin	69430-35-9	Not Listed in ESIS	Not Listed	0 – 45%	HAZARD CLASSIFICATION: [Xi] Irritant RISK PHRASES: R36/38
Resin acids and Rosin acids, esters with pentaerythritol	8050-26-8	232-479-9	Not Listed	0 – 45%	HAZARD CLASSIFICATION: [Xi] Irritant RISK PHRASES: R36/38
Hydrocarbon resin	68441-37-2	Not Listed in ESIS	Not Listed	0 – 45%	HAZARD CLASSIFICATION: [Xi] Irritant RISK PHRASES: R36/38
Polyethylene Wax	9002-88-4	Not Listed in ESIS	Not Listed	0 – 10%	HAZARD CLASSIFICATION: [Xi] Irritant RISK PHRASES: R36/38
Balance of other components. Each of the other components is present in less than 1 percent concentration (0.1% concentration for potential carcinogens, reproductive toxins, respiratory tract sensitizers, and mutagens)					

NOTE: ALL WHMIS required information is included in appropriate sections based on the ANSI Z400.1-2010 format. This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR, EU Directives and the Japanese Industrial Standard *JIS Z 7250: 2000*. This material is classified as non-hazardous under OSHA regulations 29 CFR 1910.1200.

4. FIRST-AID MEASURES

Contaminated individuals of chemical exposure must be taken for medical attention if any adverse effect occurs. Rescuers should be taken for medical attention, if necessary. Take copy of label and MSDS to health professional with contaminated individual.

SKIN CONTACT: Exposure to non-molten product is not expected to cause adverse effects. Wash hands after handling. If hot molten product contacts skin, cool under running water. Do not remove solidified product. The contaminated individual should seek medical attention.

EYE CONTACT: Exposure to non-molten product is not expected to cause adverse effects. If hot product enters the eyes, flush with water for at least 15 minutes. Contaminated individual should seek medical attention immediately.

INHALATION: If breathing becomes difficult remove contaminated individual to fresh air. Seek medical attention if breathing difficulties continues.

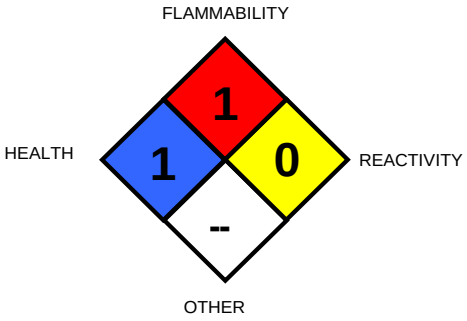
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INGESTION: Routine use of this product is not expected to cause any situation which could lead to ingestion. If this product is swallowed, CALL PHYSICIAN OR POISON CONTROL CENTER FOR MOST CURRENT INFORMATION.
If professional advice is not available, do not induce vomiting. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or unable to swallow.
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None known.
RECOMMENDATIONS TO PHYSICIANS: Treat symptoms and eliminate overexposure.

5. FIRE-FIGHTING MEASURES

FLASH POINT: >450ºF (>232ºC)
AUTOIGNITION TEMPERATURE: Not Established
FLAMMABLE LIMITS (in air by volume, %): Lower NA Upper NA
FIRE EXTINGUISHING MATERIALS: Use fire extinguishing materials appropriate for surrounding fire including water spray (for cooling), dry extinguishing media, carbon dioxide, foam. A solid stream of water may scatter molten product.
UNUSUAL FIRE AND EXPLOSION HAZARDS: This product has no unusual fire or explosion hazards. Do not use water on molten adhesive to avoid splattering and spreading the fire.
Explosion Sensitivity to Mechanical Impact: Not Sensitive
Explosion Sensitivity to Static Discharge: Not Sensitive
SPECIAL FIRE-FIGHTING PROCEDURES: Incipient fire responders should wear eye protection. Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.

NFPA RATING



Hazard Scale: **0** = Minimal **1** = Slight
2 = Moderate
3 = Serious **4** = Severe

6. ACCIDENTAL RELEASE MEASURES

SPILL AND LEAK RESPONSE: Personnel should be trained for spill response operations. Wear appropriate protective equipment such as rubber gloves, safety glasses, and appropriate body protection. Stop discharge if safe to do so.
PELLET OR CHIP SPILL: Collect and contain for salvage or disposal.
MOLTEN ADHESIVE SPILL: Placard "Hot Material", allow to cool and remove. Collect and contain for salvage or disposal. Stop material from contaminating soil or from entering sewers or water streams.

DISPOSAL: Dispose of in accordance with applicable Federal, State, and local procedures (see Section 13, Disposal Considerations). Dispose of recovered material and report spill per regulatory requirements. It is recommended you contact local authorities to determine if there may be other local reporting requirements.

7. HANDLING and STORAGE

WORK PRACTICES AND HYGIENE PRACTICES: As with all chemicals, avoid getting this product ON YOU or IN YOU. Wash thoroughly after handling this product. Do not eat, drink, smoke, or apply cosmetics while handling this product. Use in a well-ventilated location. Remove contaminated clothing immediately.
STORAGE AND HANDLING PRACTICES: All employees who handle this material should be trained to handle it safely. Avoid contact with eyes, skin and clothing. Keep the container tightly closed and dry.
EMPTY CONYAINER PRECAUTION: Attention! Follow label warnings even after container is emptied since empty containers may retain product residues. Do not reuse empty container without professional cleaning for food, clothing, or products for humans or animal consumption, or where skin contact can occur.

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8. EXPOSURE CONTROLS - PERSONAL PROTECTION

VENTILATION AND ENGINEERING CONTROLS: Use with adequate ventilation to ensure exposure levels are maintained below the limits provided below. Use local exhaust ventilation, and process enclosure if necessary, to control airborne dust. Ensure eyewash/safety shower stations are available near areas where this product is used.

EXPOSURE LIMITS/GUIDELINES:

Component Name	CAS#	ACGIH-TLV's	OSHA PEL's	NIOSH- TLV's	Other
Ethylene Vinyl Copolymer	24937-78-8	Not Listed	Not Listed	Not Listed	None
Resin	69430-35-9	Not Listed	Not Listed	Not Listed	None
Resin acids and Rosin acids, esters with pentaerythritol	8050-26-8	Not Listed	Not Listed	Not Listed	None
Hydrocarbon resin	68441-37-2	Not Listed	Not Listed	Not Listed	None
Polyethylene Wax	9002-88-4	Not Listed	Not Listed	Not Listed	None

Currently, International exposure limits are established for the components of this product. Please check with competent authority in each country for the most recent limits in place.

The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132) or equivalent standard of Canada, or standards of EU member states (including EN 149 for respiratory PPE, and EN 166 for face/eye protection), and those of Japan. Please reference applicable regulations and standards for relevant details.

RESPIRATORY PROTECTION: When thermal processing fumes are generated and ventilation is not sufficient to effectively remove them appropriate approved respiratory protection must be provided. Heated product will emit vapors and exposed workers may need to use a NIOSH approved, organic vapor canister type respirator. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93, the European Standard EN149, or EU member states. Oxygen levels below 19.5% are considered IDLH by OSHA. In such atmospheres, use of a full-facepiece pressure/demand SCBA or a full facepiece, supplied air respirator with auxiliary self-contained air supply is required under U.S. Federal OSHA's Respiratory Protection Standard (1910.134-1998) or the regulations of various U.S. States, Canada, EU Member States, or those of Japan. Air-purifying respirators with dust/mist/fume filters are recommended if operations may produce mists or sprays from this product.

EYE PROTECTION: Wear chemical goggles, face shield if handling molten material. If necessary, refer to U.S. OSHA 29 CFR 1910.133, Canadian Standards, and the European Standard EN166, Australian Standards, or relevant Japanese Standards.

HAND PROTECTION: Wear thermal insulating gloves to protect from thermal burns. If necessary, refer to U.S. OSHA 29 CFR 1910.138, the European Standard DIN EN 374, the appropriate Standards of Canada, Australian Standards, or relevant Japanese Standards.

BODY PROTECTION: Work clothing sufficient to prevent skin contact. If necessary, refer to appropriate Standards of Canada, or appropriate Standards of the EU, Australian Standards, or relevant Japanese Standards.

9. PHYSICAL and CHEMICAL PROPERTIES

SOFTENING POINT: 190°F (88°C)
SPECIFIC GRAVITY @ 20°C: 0.918 – 0.960 (water=1)
VAPOR PRESSURE, mm Hg @ 20°C (68°F): NA
ODOR THRESHOLD: No odor
EVAPORATION RATE (n-BuAc=1): Not Applicable
SOLUBILITY IN WATER: Non soluble
pH: NA
APPEARANCE, ODOR and COLOR: This product is a solid in various colors, with no odor.

10. STABILITY and REACTIVITY

STABILITY: Stable.
DECOMPOSITION PRODUCTS: Thermal degradation produces carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

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MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE: The product may react to strong acids, bases and oxidizing agents.

POSSIBILITY OF HAZARDOUS REACTIONS: Will not occur.

CONDITIONS TO AVOID: Avoid excessive overheating. Do not add water or other volatile material to molten adhesive.

11. TOXICOLOGICAL INFORMATION

TOXICITY DATA:

No LD50 Data Available for this product

SUSPECTED CANCER AGENT: The components of this product are not listed by agencies tracking the carcinogenic potential of chemical compounds as follows:

Carcinogenity

NTP Regulated	No
IARC Regulated	No
OSHA Regulated	No

IRITANCY OF PRODUCT: This product can cause skin and eye irritation.

SENSITIZATION TO THE PRODUCT: These products are not known to cause human skin or respiratory sensitization.

REPRODUCTIVE TOXICITY INFORMATION: Listed below is information concerning the effects of this product and its components on the human reproductive system.

Mutagenicity: The components of this product are not reported to produce mutagenic effects in humans.

Embryotoxicity: The components of this product are not reported to produce embryotoxic effects in humans.

Teratogenicity: The components of this product are not reported to produce teratogenicity effects in humans.

Reproductive Toxicity: The components of this product are not reported to produce reproductive effects in humans.

12. ECOLOGICAL INFORMATION

ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.

MOBILITY IN SOIL: These products have not been tested for mobility in soil.

PERSISTENCE/DEGRADABILITY: These products have not been tested for persistence or biodegradability. The components may slowly degrade in the environment and form a variety of organic and inorganic materials; however, no specific information is known.

ENVIRONMENTAL STABILITY: Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways

BIOACCUMULATION/ACCUMULATION: These products have not been tested for bio-accumulation potential.

13. DISPOSAL CONSIDERATIONS

PREPARING WASTES FOR DISPOSAL: Waste disposal must be in accordance with appropriate U.S. Federal, State, and local regulations, those of Canada, Australia, EU Member States and Japan.

14. TRANSPORTATION INFORMATION

US DOT, IATA, IMO, ADR:

U.S. DEPARTMENT OF TRANSPORTATION (DOT) SHIPPING REGULATIONS: This product is not classified as dangerous goods, per U.S. DOT regulations, under 49 CFR 172.101. Non-Regulated

TRANSPORT CANADA, TRANSPORTATION OF DANGEROUS GOODS REGULATIONS: These products are not classified as Dangerous Goods, per regulations of Transport Canada.

INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA): These products are not classified as Dangerous Goods, by rules of IATA:

INTERNATIONAL MARITIME ORGANIZATION (IMO) DESIGNATION: These products are not classified as Dangerous Goods by the International Maritime Organization.

EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD (ADR): These products are not classified by the United Nations Economic Commission for Europe to be dangerous goods

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15. REGULATORY INFORMATION

UNITED STATES REGULATIONS:

U.S. SARA REPORTING REQUIREMENTS: The components of these products are not subject to the reporting requirements of Sections 302, 304, and 313 of Title III of the Superfund Amendments and Reauthorization Act.

U.S. SARA THRESHOLD PLANNING QUANTITY: There are no specific Threshold Planning Quantities for any component of these products. The default Federal MSDS submission and inventory requirement filing threshold of 10,000 lb (4,540 kg) therefore applies, per 40 CFR 370.20.

U.S. CERCLA REPORTABLE QUANTITY (RQ): None.

U.S. TSCA INVENTORY STATUS: The components of these products are listed in the TSCA Inventory.

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65): This product does not contain any component above the 0.1% level which is listed as a California Proposition 65 chemical.

CANADIAN REGULATIONS:

CANADIAN DSL/NDSL INVENTORY STATUS: The components of this product are on the DSL Inventory, or are exempted from listing.

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS: No component of this product is on the CEPA First Priorities Substance Lists.

CANADIAN WHMIS CLASSIFICATION and SYMBOLS: Not Controlled as per the Controlled Product Regulations.

EUROPEAN ECONOMIC COMMUNITY INFORMATION:

SEE SECTION 2 FOR DETAILS

AUSTRALIAN INFORMATION FOR PRODUCT:

AUSTRALIAN INVENTORY OF CHEMICAL SUBSTANCES (AICS) STATUS: The components of this product are listed on the AICS or are exempt.

STANDARD FOR THE UNIFORM SCHEDULING OF DRUGS AND POISONS: Not applicable.

JAPANESE INFORMATION FOR PRODUCT:

JAPANESE MINISTER OF INTERNATIONAL TRADE AND INDUSTRY (MITI) STATUS: The components of this product are not listed as Class I Specified Chemical Substances, Class II Specified Chemical Substances, or Designated Chemical Substances by the Japanese MITI.

INTERNATIONAL CHEMICAL INVENTORIES:

Listing of the components on individual country Chemical Inventories is as follows:

Asia-Pac: Listed or exempt
Australian Inventory of Chemical Substances (AICS): Listed or exempt
Korean Existing Chemicals List (ECL): Listed or exempt
Japanese Existing National Inventory of Chemical Substances (ENCS): Listed or exempt
Philippines Inventory if Chemicals and Chemical Substances (PICCS): Listed or exempt
Swiss Giftliste List of Toxic Substances: Listed or exempt
U.S. TSCA: Listed or exempt

16. OTHER INFORMATION

PREPARED BY: Paul Eigbrett GHS MSDS Compliance PLUS
DATE OF PRINTING: December 4, 2013

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