

-----  
MATERIAL SAFETY DATA SHEET Page 1  
MSDS ID: 771100 Revised 12/08/99  
H/M 2105  
BOSTIK INC. Replaces 11/24/98  
-----

-----  
SECTION 1- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION  
-----

MSDS NUMBER: 771100  
PRODUCT NAME: H/M 2105  
CHEMICAL FAMILY: Hot Melt Adhesive

COMPANY:  
Bostik Inc.  
211 Boston St.  
Middleton, MA 01949

EMERGENCY RESPONSE NUMBERS:  
Transportation:  
In case of emergency, Call  
800-227-0332  
Product Safety and Environmental:  
978-777-0100

-----  
SECTION 2- INGREDIENT AND EXPOSURE LIMIT INFORMATION  
-----

COMPONENT	CAS NUMBER	WT PERCENT*	OEL**	OSHA PEL
No OSHA reportable components.				

\* If the total is less than 100%, the balance of this product is not considered to be hazardous as defined under OSHA's Hazard Communication Standard (29 CFR 1910.1200).

\*\* The Bostik recommended Occupational Exposure Limit (OEL) value represents the lower of the US OSHA PEL, ACGIH TLV, or Manufacturers Recommended Limit.

N/A = Not Available, N/D = Not Determined

-----  
SECTION 3- HAZARDS IDENTIFICATION  
-----

POTENTIAL HEALTH CONSIDERATIONS

HMIS HAZARD RATING

Health: 0  
Flammability: 1  
Reactivity: 0  
Protection: B

Note: Numeric Hazard Ratings are intended only to indicate the relative hazard of the product. Users must read and understand the entire Material Safety Data Sheet prior to use of this product.

CANADIAN WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS) CLASS --  
This product is not a controlled substance under WHMIS regulations.

LIKELY ROUTES OF ENTRY

Inhalation.

TARGET ORGANS

None known to BOSTIK.

POTENTIAL IMMEDIATE EFFECTS FROM OVEREXPOSURE

CONTACT, SKIN and EYE

Contact at application temperatures will cause skin and or eye burns.

SKIN ABSORPTION

No hazard known at this time.

INHALATION

Fumes from hot material may be irritating.

INGESTION

No hazard known at this time.

SYMPTOMS OF OVEREXPOSURE

Irritation of nose and throat from fumes of heated material.

POTENTIAL LONG-TERM EFFECTS FROM OVEREXPOSURE:

CANCER INFORMATION

None of the ingredients in this product exceeding 0.1% are on the IARC, NTP, or OSHA lists of carcinogenic hazards.

CHRONIC EFFECTS

No long term health effects known to BOSTIK.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None known to BOSTIK.

NOTES TO MD AND OTHER HEALTH RELATED INFORMATION

Treat symptomatically and supportively. Contact BOSTIK to determine whether any additional information is available.

---

SECTION 4- FIRST AID MEASURES

---

CONTACT, SKIN AND EYE

SKIN CONTACT AT APPLICATION TEMPERATURE Immediately immerse contacted area in cold water to reduce temperature and relieve pain. Do not attempt to peel adhesive from skin. Call a physician. If the physician agrees, mineral oil may prove useful in softening the adhesive after it cools.

INHALATION

First Aid for inhalation is not normally required.

INGESTION

First Aid for ingestion is not normally required.

---

SECTION 5- FIRE FIGHTING MEASURES

---

FLAMMABILITY DATA

FLASH POINT DEG F: >200  
DEG C: >93

LOWER EXPLOSIVE LIMIT %: N/A  
UPPER EXPLOSIVE LIMIT %: N/A  
AUTOIGNITION POINT DEG F: N/A  
DEG C: N/A

FIRE AND EXPLOSION HAZARDS:  
None known to BOSTIK.

DUST EXPLOSION HAZARD:  
No hazard known to BOSTIK.

SENSITIVITY TO MECHANICAL IMPACT:  
No hazard known to BOSTIK.

SENSITIVITY TO STATIC DISCHARGE:  
No hazard known to BOSTIK.

EXTINGUISHING MEDIA:  
In case of fire use water spray, foam, dry chemical, or carbon dioxide.

HAZARDOUS COMBUSTION PRODUCTS:  
Unknown due to the complex nature of this material. Fumes from complete or incomplete combustion may include carbon dioxide, carbon monoxide, water vapor, oxides of nitrogen, and a wide variety of innocuous or toxic fumes.

---

#### SECTION 6- ACCIDENTAL RELEASE MEASURE

---

##### SPILL CLEAN-UP PROCEDURES

If liquid allow to harden, then sweep up or peel from floor and package solid product in steel drums which are in good condition. Thoroughly clean area where spill occurred.

---

#### SECTION 7- HANDLING AND STORAGE

---

##### STORAGE PRECAUTIONS

Store in a cool location (60-80 degrees F, 15-30 degrees C) away from sunlight and any source of heat. Keep container tightly closed when not being used.

##### HANDLING PRECAUTIONS

Use with adequate ventilation, avoid prolonged or repeated breathing of vapors. Avoid skin contact.

---

#### SECTION 8- EXPOSURE CONTROLS AND PERSONAL PROTECTION

---

##### VENTILATION CONTROLS

Not necessary but may be desirable to reduce odors.

##### EYE PROTECTION

Safety glasses with side shields.

##### RESPIRATORY PROTECTION

Not normally required but is desirable as with handling any industrial product.

## SKIN PROTECTION

Gloves and long sleeve clothing to protect from thermal burns.

-----  
SECTION 9- PHYSICAL AND CHEMICAL PROPERTIES  
-----

APPEARANCE: A glue stick with little odor.  
SPECIFIC GRAVITY: 0.95 (Water = 1)  
DENSITY: 7.93 lb/gal  
SOLUBILITY IN WATER: 0.0%  
PERCENT VOLATILE (WEIGHT): 0.0%  
VOLATILE ORGANIC COMPOUND: 0.00%  
VAPOR PRESSURE: N/D  
BOILING POINT: N/D  
VAPOR DENSITY: N/D  
ODOR THRESHOLD: N/D  
OCTANOL/WATER COEFFICIENT: N/D

-----  
SECTION 10- STABILITY AND REACTIVITY  
-----

STABILITY  
Stable.

HAZARDOUS POLYMERIZATION  
Will not occur.

CONDITIONS TO AVOID  
Strong oxidizers.

-----  
SECTION 11- TOXICOLOGICAL INFORMATION  
-----

ACUTE (SHORT TERM) TOXICITY  
Component LD50, Oral LD50, Dermal LC50, Inhalation  
No OSHA reportable components.

CHRONIC (LONG TERM) TOXICITY AND OTHER INFORMATION  
No long term health effects known to BOSTIK.

-----  
SECTION 12- ECOLOGICAL INFORMATION  
-----

No Data Available

-----  
SECTION 13- DISPOSAL CONSIDERATIONS  
-----

Dispose of in accordance with all Federal, State, and Local rules.  
Be aware that State and Local requirements may differ widely depending on location and may in many cases be different from Federal rules.

When intending to dispose of this material, the user is advised that this product would not be classified as a Hazardous Waste under U.S. Federal Regulations in effect at the time this MSDS was created.

---

SECTION 14- TRANSPORT INFORMATION

---

DOT/IATA/IMDG/TDG PROPER SHIPPING NAME

Not Regulated as a Hazardous Material.

---

SECTION 15- REGULATORY INFORMATION

---

SARA TITLE III -- The following components are listed under Section 313  
No Components Listed.

CALIFORNIA PROPOSITION 65 --

CHEMICALS SHOWN BELOW WHICH ARE NOT LISTED IN SECTION II ARE PRESENT AT  
TRACE LEVELS BELOW THOSE CONSIDERED HAZARDOUS BY OSHA.

CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER:

No Components Listed.

CHEMICALS KNOWN TO THE STATE OF CALIFORNIA AS DEVELOPMENTAL HAZARDS:

No Components Listed.

CHEMICALS KNOWN TO THE STATE OF CALIFORNIA AS MALE REPRODUCTIVE HAZARDS:

No Components Listed.

CHEMICALS KNOWN TO THE STATE OF CALIFORNIA AS FEMALE REPRODUCTIVE HAZARDS:

No Components Listed.

Toxic Substance Control Act (TSCA) INVENTORY STATUS --

All the components of this product are either listed on the TSCA Chemical  
Substance Inventory or are exempted from listing.

CANADIAN DOMESTIC SUBSTANCE LIST STATUS --

DSL Status Not Determined.

EUROPEAN UNION EINECS LIST STATUS--

All components of this product are listed on the EINECS Inventory, or  
exempt from listing under the Polymer Exemption Provision.

---

SECTION 16- OTHER INFORMATION

---

PREPARED BY: Michael S. Fine

IMPORTANT NOTICE: All statements, technical information and recommendations set forth herein are based on information or tests which BOSTIK believes to be reliable. However, BOSTIK cannot guarantee their accuracy or completeness. The buyer should conduct his own tests of this product before use to determine proper preparation technique and suitability for the proposed application. BOSTIK's sale of this product is limited to the terms and conditions set forth on BOSTIK's order acknowledgement.

To summarize, BOSTIK's only warranty is that the product conforms with its written specifications, and is free from defects under normal usage; and BOSTIK's only obligation for non-compliance with this warranty is to replace the product or refund the buyer's purchase price. BOSTIK DISCLAIMS THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. In no case will BOSTIK be liable for direct, consequential, economic or other damage except for the replacement or refund as set forth above.