

MATERIAL SAFETY DATA SHEET

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| PRODUCT NAME: | HOT MELT | HMIS CODES: | HEALTH: 0 |
| PRODUCT CODE: | BQ-BWA | | FLAMMABILITY: 0 |
| PRODUCT USE: | HOT MELT ADHESIVE | | REACTIVITY: 0 PROTECTION: B |

SECTION I – MANUFACTURER IDENTIFICATION

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|-----------------------------|--|
| MANUFACTURER'S NAME: | STANDARD DUPLICATING MACHINES CORPORATION |
| ADDRESS: | 10 CONNECTOR ROAD ANDOVER, MA 01810 |
| EMERGENCY PHONE: | 978-470-1920 |
| INFORMATION PHONE: | 978-470-1920 |
| PREPARED BY: | DAN DESMOND |
| DATE REVISED: | April 23, 2003 |
| REASON REVISED: | PHONE NUMBER UPDATE |

SECTION II – HAZARDOUS INGREDIENTS

This Material Safety Data Sheet is prepared to comply with the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29CFR 1910.1200)

OCCUPATIONAL EXPOSURE LIMITS

HAZARDOUS COMPONENTS: NONE

SECTION III – PHYSICAL / CHEMICAL CHARACTERISTICS

BOILING RANGE: No data
SPECIFIC GRAVITY: ($h_2o = 1$): 1.00
VAPOR DENSITY: Heavier than air
EVAPORATION RATE: Slower than n-Butyl Acetate
SOLUBILITY IN WATER: None
APPEARANCE AND ODOR: Amber/ivory colored solid with practically no odor.
FREEZING POINT: n/a
PH: n/a
COEFFICIENT OF WATER/OIL DIST.: n/a
ODOR THRESHOLD: n/a

SECTION IV – FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: No data

FLAMMABLE LIMITS IN AIR BY VOLUME – LOWER: No Data **UPPER:** No data

EXTINGUISHING MEDIA: FOAM, CO², DRY CHEMICAL

SPECIAL FIREFIGHTING MEDIA:

This material is in solid form at room temperature, but in fire conditions fumes and decomposition will produce acetic acid and carbon monoxide. Full protective clothing and breathing apparatus should be worn.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Cooling with water will solidify the material very rapidly. No unusual fire and explosion hazards are known.

HAZARDOUS COMBUSTION PRODUCTS:

Incomplete combustion produces acetic acid and carbon monoxide.

SECTION V – REACTIVITY DATA

STABILITY: Stable

CONDITIONS TO AVOID: None

INCOMPATIBILITY (MATERIALS TO AVOID): None

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: High temperatures (450°F or above) are to be avoided as small amounts of acetic acid fumes can be generated.

HAZARDOUS POLYMERIZATION: Will not occur

SECTION VI – HEALTH HAZARD DATA

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE:

Inhalation of molten material fumes may result in headache, if insufficient ventilation.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE:

Eyes: Molten material will cause severe eye damage if contact occurs. Fumes from molten material may cause some irritation if adequate ventilation is not used.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE:

Skin: Molten material will cause intense skin burns as would any other molten thermoplastic material.

SECTION VI – HEALTH HAZARD DATA – continued

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE:

Ingestion: Should this occur, the molten polymer will burn the internal organs severely. Solid material if ingested will cause no damage at all.

HEALTH HAZARDS (ACUTE AND CHRONIC):

Inhalation: Not possible if material is in solid form. If molten, overexposure will cause a headache. **Eyes:** Solid material has no effect. Molten material will burn until polymer is cool. **Ingestion:** Solid material has no effect. Molten material will burn intensely. If personal contact with molten material produces a burn, see a physician or burn center immediately.

CARCINOGENICITY: NTP? No

IRC MONOGRAPHS? No

OSHA REGULATED? No

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

Headaches

EMERGENCY FIRST AID PROCEDURES:

Inhalation: Remove to fresh air.

Eyes: If molten rinse with cold water immediately and see a physician immediately.

Skin: Immediately submerge burned skin area in cold clean water. Do not attempt to pull away solid material adhering to skin. Seek medical attention.

Ingestion of molten material: Bring to hospital immediately.

This material at room temperature is a solid material but is normally used as a hot-melt in molten form, so treat any personal contact with molten material as a normal burn.

SECTION VII – PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Normal housekeeping for solid material. Clean machinery of resolidified material with solvent, taking care to eliminate all heat and spark sources. For large spills of molten liquid, allow to solidify and scrape up.

WASTE DISPOSAL:

Normal disposal for solid waste as might be used for other plastic materials such as polyethylene. Dispose of in accordance with all local, state and federal regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Not applicable in solid form. Review emergency and first aid procedures before handling molten material.

OTHER PRECAUTIONS:

None in solid form.

SECTION VIII – CONTROL MEASURES

RESPIRATORY PROTECTION:

Not required for normal usage conditions with adequate ventilation.

VENTILATION:

Local exhaust if used in a confined area. Mechanical ventilation required for large volume use.

PROTECTIVE GLOVES:

Yes, if handling molten material.

EYE PROTECTION:

Always use safety glasses when dealing with chemicals. Splashing could occur.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

Full body covering clothes if splashing or spraying the molten material.

WORK/HYGIENIC PRACTICES:

Always handle chemicals with care. Be sure to have eye rinse and shower station within the working area.

SECTION IX – REGULATORY INFORMATION

TOXIC SUBSTANCES CONTROL ACT (TSCA): All components of this product are on the public inventory and therefore are in compliance with this legislation.

SARA TITLE III: SECTION 313: This product does not contain any toxic chemicals subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR part 372.

SECTION X – DISCLAIMER

DISCLAIMER: To the best of our knowledge, the information herein is accurate as provided by our references and suppliers.