SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Glue Stick PVP
SYNONYMS:
PRODUCT CODES: CEB017412, CEB017403, CEB012618, CEB012603, CEB012708, CEB012703

MANUFACTURER: Corporate Express US Inc
DIVISION:
ADDRESS: 1 Environmental Way Broomfield CO 80021

EMERGENCY PHONE:
CHEMTREC PHONE: 800-424-9300
OTHER CALLS:
FAX PHONE:

CHEMICAL NAME: N/A
CHEMICAL FAMILY: SYNTHETIC POLYMER MIXTURE
CHEMICAL FORMULA: See Section 2
PRODUCT USE: Adhesion for paper.
PREPARED BY: Joe Chou

SECTION 1 NOTES:

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>INGREDIENT</th>
<th>CAS NO.</th>
<th>% WT</th>
<th>% VOL</th>
<th>SARA 313 REPORTABLE</th>
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<tbody>
<tr>
<td></td>
<td>9003-39-8</td>
<td>18</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>9002-89-5</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>56-81-5</td>
<td>10.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>822-16-2</td>
<td>8</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>9006-65-9</td>
<td>0.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>497-19-8</td>
<td>1.3</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>7732-18-5</td>
<td>59.7</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ppm</td>
<td>mg/m3</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

OSHA PEL-TWA:
OSHA PEL STEL:
OSHA PEL CEILING:
ACGIH TLV-TWA:
ACGIH TLV STEL:
ACGIH TLV CEILING:

SECTION 2 NOTES:

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:
Appearance                          White/Semi-transparent solid
Odor                                Slight bland
CAUTION!
Not a significant fire hazard.

ROUTES OF ENTRY: Contact, inhalation.

POTENTIAL HEALTH EFFECTS
EYES: May cause irritation on prolonged or repeated contact.
SKIN: May cause irritation on prolonged or repeated contact.
INGESTION: Not expected to be harmful under normal conditions of use.
INHALATION: Not expected to be harmful under normal conditions of use. However, if allowed to become airborne, may cause irritation of nose, throat and lungs.

ACUTE HEALTH HAZARDS:
EYES: May cause irritation on prolonged or repeated contact.
SKIN: May cause irritation on prolonged or repeated contact.
INGESTION: Not expected to be harmful under normal conditions of use.
INHALATION: Not expected to be harmful under normal conditions of use. However, if allowed to become airborne, may cause irritation of nose, throat and lungs.

CHRONIC HEALTH HAZARDS:
None of the components present in this product at concentrations equal to or greater than 0.1% have been listed by NTP, classified by IARC, nor regulated by OSHA as a carcinogen

CARCINOGENICITY
OSHA: ACGIH: NTP: IARC:
OTHER:

SECTION 3 NOTES:

SECTION 4: FIRST AID MEASURES
EYES: Immediately flush eyes with plenty of water. Call a physician if irritation persists.
SKIN: In case of irritation, flush with water.
INGESTION: If accidentally swallowed, dilute by drinking large quantities of water. Immediately contact poison control center or hospital emergency room for any other additional treatment directions.
INHALATION: Remove to fresh air.
NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:
SECTION 4 NOTES:

SECTION 5: FIRE-FIGHTING MEASURES
FLAMMABLE LIMITS IN AIR, UPPER:
(% BY VOLUME) LOWER:
FLASH POINT:
F: Not applicable
C: Not applicable
METHOD USED:
AUTOIGNITION TEMPERATURE:
|F: Not applicable
C: Not applicable
NFPA HAZARD CLASSIFICATION
HEALTH: FLAMMABILITY: REACTIVITY:
OTHER:
HMIS HAZARD CLASSIFICATION
HEALTH: FLAMMABILITY: REACTIVITY:
PROTECTION:
EXTINGUISHING MEDIA: Water
SPECIAL FIRE FIGHTING PROCEDURES: Not applicable
UNUSUAL FIRE AND EXPLOSION HAZARDS: Not applicable
HAZARDOUS DECOMPOSITION PRODUCTS: Not applicable
SECTION 5 NOTES:

SECTION 6: ACCIDENTAL RELEASE MEASURES
ACCIDENTAL RELEASE MEASURES:
Sweep (scoop) up and remove to a chemical disposal area. Prevent entry into natural bodies of water.
SECTION 6 NOTES:
SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE:
Handle in accordance with good industrial hygiene and safety practices. INHALATION: Avoid prolonged or repeated breathing of dust or vapor.
SKIN: Avoid prolonged or repeated contact with skin and clothing.
EYES: Avoid prolonged or repeated contact with eyes.
Storage:
  Keep from freezing.
  Store in a cool, dry place.
  Keep containers tightly closed.
OTHER PRECAUTIONS:

SECTION 7 NOTES:

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Not applicable
VENTILATION: Not applicable
RESPIRATORY PROTECTION: Not applicable
EYE PROTECTION: Use goggles
SKIN PROTECTION: Wear impervious gloves
OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Not applicable
WORK HYGIENIC PRACTICES: Not applicable
EXPOSURE GUIDELINES: Not applicable

SECTION 8 NOTES:

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: White/Semi-transparent Solid
ODOR: Slight bland
PHYSICAL STATE: Solid
pH AS SUPPLIED: 10
pH (Other): Not applicable
BOILING POINT:
  F: 212
  C: 100
MELTING POINT:
  F: 158~176
  C: 70~80
FREEZING POINT:
  F: 32
  C: 0
VAPOR PRESSURE (mmHg): 17.5
  @
    F: 48
    C: 20
VAPOR DENSITY (AIR = 1): < 1
  @
    F:
    C:
SPECIFIC GRAVITY (H2O = 1): 1.0
@ F: C:
EVAPORATION RATE: <1
BASIS (=1):
SOLUBILITY IN WATER: Dispersible
PERCENT SOLIDS BY WEIGHT:
PERCENT VOLATILE: 59
BY WT/ BY VOL @
F: C:
VOLATILE ORGANIC COMPOUNDS (VOC):
WITH WATER: 0 LBS/GAL
WITHOUT WATER: 0 LBS/GAL
MOLECULAR WEIGHT: Not applicable
VISCOSITY: Not applicable
@ F: C:

SECTION 10: STABILITY AND REACTIVITY

<table>
<thead>
<tr>
<th>STABLE</th>
<th>UNSTABLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>STABILITY: Normally stable as defined in NFPA 704-12(4-3.1)</td>
<td></td>
</tr>
<tr>
<td>CONDITIONS TO AVOID (STABILITY): keep from Oxidizers, acids or bases</td>
<td></td>
</tr>
<tr>
<td>INCOMPATIBILITY (MATERIAL TO AVOID): Oxidizers, acids or bases.</td>
<td></td>
</tr>
<tr>
<td>HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:</td>
<td></td>
</tr>
<tr>
<td>HAZARDOUS POLYMERIZATION: Will not occur.</td>
<td></td>
</tr>
<tr>
<td>CONDITIONS TO AVOID (POLYMERIZATION): Will not occur.</td>
<td></td>
</tr>
</tbody>
</table>

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: See Section 3 Hazards Identification information.

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: Not determined.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose of according to local, state/provincial, and federal requirements.
RCRA HAZARD CLASS: N/A
SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION
PROPER SHIPPING NAME: Glue Stick PVP
HAZARD CLASS:
ID NUMBER:
Packing GROUP:
LABEL STATEMENT:

WATER TRANSPORTATION
PROPER SHIPPING NAME: Glue Stick PVP
HAZARD CLASS:
ID NUMBER:
Packing GROUP:
LABEL STATEMENTS:

AIR TRANSPORTATION
PROPER SHIPPING NAME: Glue Stick PVP
HAZARD CLASS:
ID NUMBER:
Packing GROUP:
LABEL STATEMENTS:

OTHER AGENCIES:

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS
TSCA (TOXIC SUBSTANCE CONTROL ACT):

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT):

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):
311/312 HAZARD CATEGORIES:
313 REPORTABLE INGREDIENTS:

STATE REGULATIONS:

INTERNATIONAL REGULATIONS:

SECTION 16: OTHER INFORMATION

OTHER INFORMATION: Kaida Glue Stick (PVP) conforms to ASTM D4236 and CE EN71 Part 3

PREPARATION INFORMATION:

User's Responsibility
The OSHA Hazard Communication Standard 29CFR 1910.1200 and the Workplace Hazardous Materials Information System (WHMIS) require that the information contained on these sheets be made available to your workers. Educate and train your workers regarding OSHA and WHMIS precautions. Instruct your workers to handle this product properly. Consult with appropriate experts to guard against hazards associated with use of this product and its ingredients.

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