1. Identification

Product Name: Plastic Resin Glue

Product UPC Number: 070798002081

Manufacturer: DAP Products Inc.
2400 Boston Street Suite 200
Baltimore, MD 21224-4723
888-327-8477 (non - emergency matters)

SDS Coordinator: MSDS@dap.com

Emergency Telephone: 1-800-535-5053, 1-352-323-3500, 1-800-222-1222

Revision Date: 3/8/2017
Supercedes Date: New SDS
Product Use/Class: Glue
SDS No: 00011643004
Preparer: Regulatory and Environmental Affairs

2. Hazards Identification

GHS Classification
Acute Tox. 4 Dermal, Acute Tox. 4 Inhalation, Carc. 1B, Eye Irrit. 2, Muta. 2, Skin Irrit. 2, Skin Sens. 1

Symbol(s) of Product

Signal Word
Danger

Possible Hazards
5% of the mixture consists of ingredients of unknown acute toxicity

GHS HAZARD STATEMENTS
Acute Toxicity, Dermal, category 4 H312 Harmful in contact with skin.
Skin Irritation, category 2 H315 Causes skin irritation.
Skin Sensitizer, category 1 H317 May cause an allergic skin reaction.
Eye Irritation, category 2  H319  Causes serious eye irritation.
Acute Toxicity, Inhalation, category 4  H332  Harmful if inhaled.
Germ Cell Mutagenicity, category 2  H341  Suspected of causing genetic defects.
Carcinogenicity, category 1B  H350  May cause cancer.

GHS LABEL PRECAUTIONARY STATEMENTS
P201  Obtain special instructions before use.
P261  Avoid breathing dust/fume/gas/mist/vapours/spray.
P264  Wash thoroughly after handling.
P271  Use only outdoors or in a well-ventilated area.
P272  Contaminated work clothing should not be allowed out of the workplace.
P280  Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352  IF ON SKIN: Wash with plenty of soap and water.
P304+P340  IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313  IF exposed or concerned: Get medical advice/attention.
P312  Call a POISON CENTER or doctor/physician if you feel unwell.
P321  Specific treatment (see … on this label).
P322  Specific measures (see … on this label).
P332+P313  If skin irritation occurs: Get medical advice/attention.
P333+P313  If skin irritation or rash occurs: Get medical advice/attention.
P337+P313  If eye irritation persists: Get medical advice/attention.
P362  Take off contaminated clothing.
P405  Store locked up.
P501  Dispose of contents/container to …

3. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Wt. %</th>
<th>GHS Symbols</th>
<th>GHS Statements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Urea-formaldehyde polymer</td>
<td>9011-05-6</td>
<td>80-100</td>
<td>GHS07</td>
<td>H315-319-332</td>
</tr>
<tr>
<td>Barium sulfate</td>
<td>7727-43-7</td>
<td>1-5</td>
<td>GHS07</td>
<td>H312</td>
</tr>
<tr>
<td>Tri Calcium Phosphate</td>
<td>1306-06-5</td>
<td>1-5</td>
<td>No Information</td>
<td>No Information</td>
</tr>
<tr>
<td>Formaldehyde</td>
<td>50-00-0</td>
<td>1-5</td>
<td>GHS05-GHS06-</td>
<td>H301-311-314-317-330-335-341-350</td>
</tr>
<tr>
<td>Ammonium sulfate</td>
<td>7783-20-2</td>
<td>1-5</td>
<td>GHS07</td>
<td>H312</td>
</tr>
</tbody>
</table>

The text for GHS Hazard Statements shown above (if any) is given in the "Other information" Section.

4. First-aid Measures

FIRST AID - INHALATION: If inhaled, remove to fresh air. If breathing is difficult, leave the area to obtain fresh air. If continued breathing difficulty is experienced, get medical attention immediately.

FIRST AID - SKIN CONTACT: Wash skin with soap and water for 15 minutes. Get medical aid if symptoms persist. Remove and wash contaminated clothing.

FIRST AID - EYE CONTACT: In case of contact, immediately flush eyes with large quantities of water for at least 15 minutes until irritation subsides. Get medical attention immediately.

FIRST AID - INGESTION: If swallowed, DO NOT INDUCE VOMITING. Get medical attention immediately.

5. Fire-fighting Measures

UNUSUAL FIRE AND EXPLOSION HAZARDS: Possible dust explosion if dispersed in air in large quantities.

SPECIAL FIREFIGHTING PROCEDURES: Wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear. Use water spray to cool exposed surfaces.

EXTINGUISHING MEDIA: Carbon Dioxide, Dry Chemical, Foam, Water Fog

6. Accidental Release Measures

ENVIRONMENTAL MEASURES: No Information
STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: In case of spillage, absorb with inert material and dispose of in accordance with applicable regulations. Sweep up excess powder. Place remaining powder into containers.

7. Handling and Storage

HANDLING: KEEP OUT OF REACH OF CHILDREN! DO NOT TAKE INTERNALLY. Keep containers away from excessive heat and freezing. Use in well ventilated area. Provide fresh air such that chemical odors cannot be detected during use and while drying. Do not inhale dusts of this product. Keep away from sources of ignition. Store in a cool, dry, well-ventilated area, away from incompatible substances.

STORAGE: Avoid excessive heat and freezing. Keep containers closed when not in use. Do not store at temperatures above 120 degrees F. Do not store near acids.

8. Exposure Controls/Personal Protection

### Ingredients with Occupational Exposure Limits

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV-TWA</th>
<th>ACGIH-TLV STEL</th>
<th>OSHA PEL-TWA</th>
<th>OSHA PEL-CEILING</th>
</tr>
</thead>
<tbody>
<tr>
<td>Urea-formaldehyde polymer</td>
<td>N.E.</td>
<td>N.E.</td>
<td>N.E.</td>
<td>N.E.</td>
</tr>
<tr>
<td>Barium sulfate</td>
<td>N.E.</td>
<td>N.E.</td>
<td>N.E.</td>
<td>N.E.</td>
</tr>
<tr>
<td>Tri Calcium Phosphate</td>
<td>N.E.</td>
<td>N.E.</td>
<td>N.E.</td>
<td>N.E.</td>
</tr>
<tr>
<td>Formaldehyde</td>
<td>N.E.</td>
<td>N.E.</td>
<td>0.75 ppm TWA</td>
<td>N.E.</td>
</tr>
<tr>
<td>Ammonium sulfate</td>
<td>N.E.</td>
<td>N.E.</td>
<td>N.E.</td>
<td>N.E.</td>
</tr>
</tbody>
</table>

Further Advice: MEL = Maximum Exposure Limit  OES = Occupational Exposure Standard  SUP = Supplier’s Recommendation  Sk = Skin Sensitizer  N.E. = Not Established

**Personal Protection**

**RESPIRATORY PROTECTION:** Respirator use is not expected to be necessary under normal conditions of handling. In emergency situations, use of a NIOSH-approved respirator may be required. A respiratory protection program that meets the OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator’s use.

**SKIN PROTECTION:** Wear rubber gloves.

**EYE PROTECTION:** Goggles or safety glasses with side shields.

**OTHER PROTECTIVE EQUIPMENT:** Provide eyewash. Provide coveralls if body contact may occur.

**HYGIENIC PRACTICES:** Remove and wash contaminated clothing before re-use.
9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance:</td>
<td>Colored</td>
</tr>
<tr>
<td>Odor:</td>
<td>Slight Formaldehyde</td>
</tr>
<tr>
<td>Density, g/cm³:</td>
<td>0.70 - 0.70</td>
</tr>
<tr>
<td>Freeze Point, °C:</td>
<td>Not Established</td>
</tr>
<tr>
<td>Solubility in Water:</td>
<td>No Information</td>
</tr>
<tr>
<td>Decomposition Temperature, °C:</td>
<td>Not Established</td>
</tr>
<tr>
<td>Boiling Range, °C:</td>
<td>N.I. - N.I.</td>
</tr>
<tr>
<td>Minimum Flash Point, °C:</td>
<td>No Information</td>
</tr>
<tr>
<td>Evaporation Rate:</td>
<td>No Information</td>
</tr>
<tr>
<td>Vapor Density:</td>
<td>Heavier Than Air</td>
</tr>
<tr>
<td>Combustible Dust:</td>
<td>Does not support combustion</td>
</tr>
<tr>
<td>Physical State:</td>
<td>No Information</td>
</tr>
<tr>
<td>Odor Threshold:</td>
<td>Not Established</td>
</tr>
<tr>
<td>pH:</td>
<td>No Information</td>
</tr>
<tr>
<td>Viscosity (mPa.s):</td>
<td>Not Established</td>
</tr>
<tr>
<td>Partition Coeff., n-octanol/water:</td>
<td>Not Established</td>
</tr>
<tr>
<td>Explosive Limits, %:</td>
<td>N.I. - N.I.</td>
</tr>
<tr>
<td>Auto-Ignition Temperature, °C:</td>
<td>Not Established</td>
</tr>
<tr>
<td>Vapor Pressure, mmHg:</td>
<td>Not Established</td>
</tr>
<tr>
<td>Flash Method:</td>
<td>Seta Closed Cup</td>
</tr>
<tr>
<td>Flammability, NFPA:</td>
<td>Non-Flammable</td>
</tr>
</tbody>
</table>

(See "Other information" Section for abbreviation legend)
(If product is an aerosol, the flash point stated above is that of the propellant.)

10. Stability and Reactivity

STABILITY: Stable under normal conditions.

CONDITIONS TO AVOID: Excessive heat and freezing.

INCOMPATIBILITY: Strong oxidizing agents. Strong bases.

HAZARDOUS DECOMPOSITION PRODUCTS: Normal decomposition products, i.e., COx, NOx.

11. Toxicological Information

EFFECT OF OVEREXPOSURE - INHALATION: May cause sensitization of susceptible persons by inhalation of aerosol or dust. May cause allergic respiratory reaction. May cause irritation of respiratory tract.

EFFECT OF OVEREXPOSURE - SKIN CONTACT: May cause skin irritation. May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material. Prolonged exposure to the skin may dry the skin and cause dermatitis or burns.

EFFECT OF OVEREXPOSURE - EYE CONTACT: May cause eye irritation. Signs and symptoms may include: pain, tears, swelling, redness and blurred vision.

EFFECT OF OVEREXPOSURE - INGESTION: Acute intoxication by inhalation or ingestion of water soluble barium salts causes vomiting, diarrhea, convulsive tremors and muscular paralysis. Ingestion may cause raising of blood pressure. May cause severe gastrointestinal disturbance with headache, nausea, vomiting and diarrhea.

CARCINOGENICITY: No Information

EFFECT OF OVEREXPOSURE - CHRONIC HAZARDS: Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitization of susceptible persons. Some reports suggest that formaldehyde may cause respiratory sensitization, such as asthma, and that pre-existing respiratory and skin disorders may be aggravated by exposure. OSHA has identified 0.5 ppm as the "Action Level", 29 CFR.1048. Please refer to the OSHA Standard for guidance applicable to your specific operation.

Primary Route(s) of Entry: Eye Contact, Inhalation, Skin Contact

Acute Toxicity Values
The acute effects of this product have not been tested. Data on individual components are tabulated below:

<table>
<thead>
<tr>
<th>CAS-No.</th>
<th>Chemical Name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Vapor LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>9011-05-6</td>
<td>Urea-formaldehyde polymer</td>
<td>&gt;8394 mg/kg Rat</td>
<td>&gt;2000 mg/kg</td>
<td>&gt;20 mg/L</td>
</tr>
<tr>
<td>S<strong>BA</strong>+C</td>
<td>Barium sulfate</td>
<td>364000 mg/kg Rat</td>
<td>2000 mg/kg Rat</td>
<td>N.I.</td>
</tr>
<tr>
<td>1306-06-5</td>
<td>Tri Calcium Phosphate</td>
<td>&gt;5000 mg/kg Rat</td>
<td>&gt;2000 mg/kg Rabbit</td>
<td>&gt;20 mg/L</td>
</tr>
<tr>
<td>50-00-0</td>
<td>Formaldehyde</td>
<td>100 mg/kg Rat</td>
<td>270 mg/kg Rabbit</td>
<td>0.578 mg/L Rat</td>
</tr>
</tbody>
</table>
12. Ecological Information

ECOLOGICAL INFORMATION: Ecological injuries are not known or expected under normal use.

13. Disposal Information

DISPOSAL INFORMATION: This product does not meet the definition of a hazardous waste according to U.S. EPA Hazardous Waste Management Regulation, 40 CFR Section 261. Dispose as hazardous waste according to all local, state, federal and provincial regulations. State and Local regulations/restrictions are complex and may differ from Federal regulations. Responsibility for proper waste disposal is with the owner of the waste.

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: In case of spillage, absorb with inert material and dispose of in accordance with applicable regulations. Sweep up excess powder. Place remaining powder into containers.

14. Transport Information

| DOT UN/NA Number: | No Information |
| DOT Proper Shipping Name: | No Information |
| DOT Technical Name: | N.A. |
| DOT Hazard Class: | N.A. |
| Hazard SubClass: | No Information |
| Packing Group: | No Information |

15. Regulatory Information

SARA SECTION 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

| Chemical Name | CAS-No. |
| Formaldehyde | 50-00-0 |

TOXIC SUBSTANCES CONTROL ACT:

All ingredients in this product are either on TSCA inventory list, or otherwise exempt.
This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

No TSCA 12(b) components exist in this product.
16. Other Information

Revision Date: 3/8/2017
Supersedes Date: New MSDS
Reason for revision: HazCom2012/GHS Conversion
Datasheet produced by: Regulatory Department

HMIS Ratings:

<table>
<thead>
<tr>
<th>Health:</th>
<th>Flammability:</th>
<th>Reactivity:</th>
<th>Personal Protection:</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>1</td>
<td>0</td>
<td>X</td>
</tr>
</tbody>
</table>

VOC Less Water Less Exempt Solvent, g/L: 14.0
VOC Material, g/L: 14
VOC as Defined by California Consumer Product Regulation, Wt/Wt%: 2.00
VOC Actual, Wt/Wt%: No Information

Text for GHS Hazard Statements shown in Section 3 describing each ingredient:

H301 Toxic if swallowed.
H311 Toxic in contact with skin.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H330 Fatal if inhaled.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H341 Suspected of causing genetic defects.
H350 May cause cancer.

Icons for GHS Pictograms shown in Section 3 describing each ingredient:

GHS05
GHS06
GHS07
GHS08

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

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