MATERIAL SAFETY DATA SHEET

SECTION I

MANUFACTURER'S NAME
Ross Chemical Co.

EMERGENCY TELEPHONE NO.
1-313-842-7370

ADDRESS (Number, Street, City, State, and ZIP Code)
1655 Melville St., Detroit, Michigan 48209

CHEMICAL NAME AND SYNONYMS
White Glue

TRADE NAME AND SYNONYMS
Polyvinyl Acetate Aqueous Dispersion

FORMULA
Ross #114, #111, #118, #252, #253, #254

SECTION II - HAZARDOUS INGREDIENTS

<table>
<thead>
<tr>
<th>COMPONENTS</th>
<th>%</th>
<th>TLV (Unit)</th>
<th>ALLOYS AND METALLIC COATINGS</th>
<th>%</th>
<th>TLV (Unit)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BASE METAL</td>
<td></td>
<td></td>
<td>ALLOYS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>METALLIC COATINGS</td>
<td></td>
<td></td>
<td>FILLER METAL PLUS COATING OR CONT FLUX</td>
<td></td>
<td></td>
</tr>
<tr>
<td>OTHERS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES

SECTION III - PHYSICAL DATA

<table>
<thead>
<tr>
<th>PROPERTIES</th>
<th>VALUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>MELTING POINT (°F)</td>
<td>212°F</td>
</tr>
<tr>
<td>SPECIFIC GRAVITY (H2O=1)</td>
<td>1.10</td>
</tr>
<tr>
<td>VAPOR PRESSURE (mm Hg)</td>
<td>PERCENT, VOLATILE BY VOLUME (%)</td>
</tr>
<tr>
<td>VAPOR DENSITY (AIR=1)</td>
<td>EVAPORATION RATE (WATER=1)</td>
</tr>
<tr>
<td>SOLUBILITY IN WATER</td>
<td>COMPLETE</td>
</tr>
<tr>
<td>APPEARANCE AND ODOR</td>
<td>Milky White - Characteristic Odor</td>
</tr>
</tbody>
</table>

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

<table>
<thead>
<tr>
<th>PROPERTIES</th>
<th>VALUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLASH POINT (Method used)</td>
<td>NONE</td>
</tr>
<tr>
<td>FLAMMABLE LIMITS</td>
<td>Le</td>
</tr>
<tr>
<td>EXTINGUISHING MEDIA</td>
<td>NOT APPLICABLE</td>
</tr>
<tr>
<td>SPECIAL FIRE FIGHTING PROCEDURES</td>
<td>NOT APPLICABLE</td>
</tr>
</tbody>
</table>
SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE
Not Applicable

EFFECTS OF OVEREXPOSURE

EMERGENCY AND FIRST AID PROCEDURES

SECTION VI - REACTIVITY DATA

STABILITY
UNSTABLE
STABLE

CONDITIONS TO AVOID
X

INCOMPATIBILITY (Materials to avoid)

HAZARDOUS DECOMPOSITION PRODUCTS

HAZARDOUS POLYMERIZATION
MAY OCCUR
WILL NOT OCCUR

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
Use water to clean up.
Method similar to that used for water based protective coatings.

WASTE DISPOSAL METHOD
Method similar to that used for water based protective coatings.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)
Not applicable.

VENTILATION
LOCAL EXHAUST
MECHANICAL (General)

PROTECTIVE GLOVES

OTHER PROTECTIVE EQUIPMENT

EYE PROTECTION

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING
Keep from freezing

OTHER PRECAUTIONS
SECTION V - ACUTE HEALTH AND SAFETY DATA

TEST TYPE | RESULT | ANIMAL SPECIES | HAZARD DESCRIPTION
---|---|---|---
None conducted by Ross Adhesives.

SECTION VI - HANDLING PRECAUTIONS / FIRST AID RECOMMENDATIONS

SKIN AND EYE CONTACT:

This product is considered non-irritating to skin and eyes on the basis of safety data reported for individual components.

First Aid: If contact occurs, flush eyes thoroughly with plenty of clean water; flush skin and wash with soap and water.

SECTION VII - SPILL PROCEDURES

STEPS TO TAKE IF SPILLED

Dike to contain spilled liquid. Pick up and containerize bulk of liquid. Add dry material to absorb remaining liquid; pick up and containerize for recovery or disposal. Flush area with water to remove residues.

WASTE DISPOSAL

This product, if disposed as shipped, is not a hazardous waste as specified in 40 CFR 261. Consult state or local officials for proper disposal methods.

SECTION VIII - SPECIAL PROTECTION INFORMATION

REGULATION REQUIREMENTS

GENERAL AREA EXHAUST [ ] LOCAL EXHAUST [X] NOT NECESSARY UNDER NORMAL USE CONDITIONS

PERSONAL PROTECTIVE EQUIPMENT RECOMMENDED FOR NORMAL USE CONDITIONS

[ ] TYPE PROTECTION  [ ] SKIN PROTECTION TYPE  [ ] RESPIRATORY PROTECTION TYPE

Safety glasses with side shields  N/A  N/A

SECTION IX - SPECIAL PRECAUTIONS

NONE