INSTRUCT YOUR WORKERS TO HANDLE THIS PRODUCT PROPERLY.

| NAME | ELMER'S WATERPROOF GLUE RESIN PART 1 |
| TYPE | RESORCINOL RESIN, PART 1 |
| APPLICATION | DURABLE ADHESIVE FOR EXTERIOR USE; ITEMS E-232 (Part 1), E-241 (Part 1) |
| DATE | 11-Dec-86 |

**SIGNAL WORD CAUTION**

THIS MATERIAL IS A “HEALTH HAZARD” AND/OR A “PHYSICAL HAZARD” AS DETERMINED WHEN REVIEWED ACCORDING TO THE REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION CFR PART 1910.1200 “HAZARD COMMUNICATION” STANDARD.

**CHEMICAL HAZARD RATING**

| HEALTH | 2 (MODERATE) |
| FIRE | 2 (MODERATE) |
| REACTIVITY | 0 (LEAST) |
| CHRONIC | * |

**29CFR1910.1200 HAZARDOUS INGREDIENTS/REPORTED HEALTH EFFECTS**

<table>
<thead>
<tr>
<th>CAS REGISTRY NO.</th>
<th>MATERIAL DESCRIPTION</th>
<th>% RANGE</th>
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<tbody>
<tr>
<td>64-17-5 ETHYL ALCOHOL</td>
<td>15-30</td>
<td></td>
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<tr>
<td>108-46-3 RESORCINOL</td>
<td>1-5</td>
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</table>

**FOOTNOTE C AS OF THE DATE OF ISSUANCE OF THIS DOCUMENT. THIS MATERIAL HAS NOT BEEN LISTED BY NTP, IARC OR OSHA AS A CARCINOGEN.**

**PHYSICAL DATA**

| SPECIFIC GRAVITY | 1.15 |
| PERCENT VOLATILES | 45 |
| APPEARANCE | RED-BROWN LIQUID |
| ODOR | MILD ALCOHOL |
| FLASH POINT | 110 DEGREES F (TOC) |

**ACUTE HEALTH HAZARD DATA**

SKIN ABSORPTION: NOT EXPECTED TO BE HARMFUL UNDER NORMAL CONDITIONS OF USE.

INGESTION: MAY BE HARMFUL IF SWALLOWED.

INHALATION: MAY BE HARMFUL IF INHALED. LIQUID OR VAPOR CAN CAUSE IRRITATION OF NOSE, THROAT AND LUNGS.

SKIN MAY CAUSE IRRITATION ON PROLONGED OR REPEATED CONTACT.

EYES: CAUSES IRRITATION.

**HANDLING PRECAUTIONS**

SKIN ABSORPTION: AVOID PROLONGED OR REPEATED CONTACT WITH EYES, SKIN OR CLOTHING.

INGALATION: AVOID BREATHING VAPOR.

USE WITH APPROPRIATE VENTILATION.

SKIN: AVOID PROLONGED OR REPEATED CONTACT WITH SKIN.

EYES: AVOID CONTACT WITH EYES.

HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICES. THESE PRACTICES INCLUDE AVOIDING UNNECESSARY EXPOSURE AND REMOVAL OF THE MATERIAL FROM EYES, SKIN AND CLOTHING.

WASH THROUGHFULLY AFTER HANDLING.

**EMERGENCY AND FIRST AID PROCEDURES**

SKIN ABSORPTION IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES OR SKIN WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES.

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. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION, PREFERRED MOUTH-TO-MOUTH. IF BREATHING IS DIFFICULT, GIVE OXYGEN. CALL A PHYSICIAN.

SKIN CONTACT: IN CASE OF IRRITATION, FLUSH WITH WATER.

EYE CONTACT: IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. EYELIDS SHOULD BE HELD APART DURING IRRIGATION TO INSURE WATER CONTACT WITH ENTIRE SURFACE OF EYES AND LIDS. CALL A PHYSICIAN.

**FIRE AND EXPLOSION HAZARD DATA**

COMBUSTIBLE

KEEP AWAY FROM HEAT AND FLAME. IN CASE OF FIRE USE WATER SPRAY, DRY CHEMICAL, "ALCOHOL" FOAM OR CO2. USE WATER TO KEEP FIRE EXPOSED CONTAINERS COOL.

**REACTIVITY DATA**

NORMALLY STABLE AS DEFINED IN NFPA 704-12(4.3.1).

**CONTROL MEASURES**

IF AIRBORNE CONTAMINANTS ARE GENERATED WHEN THE MATERIAL IS HEATED OR HANDLED, SUFFICIENT VENTILATION IN VOLUME AND AIR FLOW PATTERN SHOULD BE PROVIDED TO KEEP AIR CONTAMINANT CONCENTRATION LEVELS BELOW ACCEPTABLE CRITERIA.

ENGINEERING CONTROLS: EFFICIENT EXHAUST SYSTEMS MAY BE USED TO EFFECTIVELY MINIMIZE EXHAUSTED AIR. ADEQUATE EXHAUST SYSTEMS SHOULD BE USED TO REMOVE CONTAMINANTS FROM THE WORK AREA IN COMBINATION WITH APPROPRIATE USE OF PERSONAL PROTECTIVE EQUIPMENT AND PRUDENT WORK PRACTICES. THESE TECHNIQUES MAY NOT NECESSARILY ADDRESS ALL ISSUES PERTAINING TO YOUR OPERATIONS. WE, THEREFORE, RECOMMEND THAT YOU CONSULT WITH EXPERTS OF YOUR CHOICE TO DETERMINE WHETHER OR NOT YOUR PROGRAMS ARE ADEQUATE.

**PERSONAL PROTECTION INFORMATION**

WHERE AIR CONTAMINANTS CAN EXCEED ACCEPTABLE CRITERIA, USE MSHA/NIOSH APPROVED RESPIRATORY PROTECTION EQUIPMENT. RESPIRATORS SHOULD BE SELECTED BASED ON THE FORM AND CONCENTRATION OF CONTAMINANTS IN AIR IN ACCORDANCE WITH OSHA 29 CFR 1910.134 OR OTHER APPLICABLE STANDARDS OR GUIDELINES.

USE GOGGLES IF CONTACT IS LIKELY.

WEAR IMPERVIOUS GLOVES AS REQUIRED TO PREVENT SKIN CONTACT.

**SPILL OR LEAK PROCEDURES**

ELIMINATE ALL IGNITION SOURCES.

SOAK UP WITH ABSORBENT MATERIAL AND REMOVE TO A CHEMICAL DISPOSAL AREA.

PREVENT ENTRY INTO NATURAL BODIES OF WATER.
WASTE DISPOSAL METHOD
RECOVER FREE LIQUID, ABSORB RESIDUE AND DISPOSE OF ACCORDING TO LOCAL, STATE, AND FEDERAL REQUIREMENTS.
EMPTY CONTAINER MAY CONTAIN EXPLOSIVE VAPORS. DO NOT CUT, PUNCTURE OR WELD ON OR NEARBY.

STORAGE PRECAUTIONS
NOT HARMED BY FREEZING. BUT THAW FROZEN RESIN SLOWLY AND STIR BEFORE USING.
STORE IN A COOL, DRY PLACE.
KEEP CONTAINER CLOSED.

DOT CLASSIFICATION
COMBUSTIBLE.

DISCLAIMER
SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, CONCERNING THE PRODUCT OR THE MERCHANTABILITY OR FITNESS THEREOF FOR ANY PURPOSE OR CONCERNING THE ACCURACY OF ANY INFORMATION PROVIDED BY BORDEN, except that the product shall conform to contracted specifications, and that the product does not infringe any valid United States patent. The information provided herein was believed by Borden to be accurate at the time of preparation or prepared from sources believed to be reliable, but it is the responsibility of the user to investigate and understand other pertinent sources of information, to comply with all laws and procedures applicable to the safe handling and use of product and to determine the suitability of the product for its intended use. Buyer's exclusive remedy shall be for damages and no claim of any kind, whether as to product delivered or for non-delivery of product, and whether based on contract, breach of warranty, negligence or otherwise shall be greater in amount than the purchase price of the quantity of product in respect of which damages are claimed. In no event shall Seller be liable for incidental or consequential damages, whether Buyer's claim is based on contract, breach of warranty, negligence or otherwise.
INSTRUCT YOUR WORKERS TO HANDLE THIS PRODUCT PROPERLY

SIGNAL WORD CAUTION!
THIS MATERIAL IS A "HEALTH HAZARD" AND/OR A "PHYSICAL HAZARD" AS DETERMINED WHEN REVIEWED ACCORDING TO THE REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION 29 CFR PART 1910.1200 "HAZARD COMMUNICATION" STANDARD.

CHEMICAL HAZARD RATING
- HEALTH = 2 (MODERATE)
- FIRE = 2 (MODERATE)
- REACTIVITY = 0 (LEAST)
- CHRONIC =

29CFR1910.1200 HAZARDOUS INGREDIENTS/REPORTED HEALTH EFFECTS

CAS Registry NO. MATERIAL DESCRIPTION % RANGE

64-17-5 ETHYL ALCOHOL 15-30
CAN CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION. SIGNS AND SYMPTOMS MAY INCLUDE HEADACHE, DIZZINESS, NAUSEA, VOMITING, AND DROWSINESS. SEE FOOTNOTE C.
OSHA TLV: 1000 PPM (1900 MG/M3) TWA
OSHA REL: 1000 PPM (1900 MG/M3) TWA

108-43-3 RESORCINOL 1-5
OVEREXPOSURE MAY CAUSE THYROID DAMAGE BASED ON TEST WITH LABORATORY ANIMALS.
CAUSE ALLERGIC SKIN REACTION. SEE FOOTNOTE C.
ACGIH TLV: 10 PPM (45 MG/M3) TWA 20 PPM (80 MG/M3) STEL
OSHA REL: NONE ESTABLISHED

FOOTNOTE C: AS OF THE DATE OF ISSUANCE OF THIS DOCUMENT, THIS MATERIAL HAS NOT BEEN LISTED BY NTP, IARC OR OSHA AS A CARCINOGEN.

PHYSICAL DATA
SPECIFIC GRAVITY = 1.15
PERCENT VOLATILES = 45
APPEARANCE = RED BROWN LIQUID
ODOR = MILD ALCOHOL
FLASH POINT = 110 DEGREES F (TOC)

ACUTE HEALTH HAZARD DATA
SKIN ABSORPTION: NOT EXPECTED TO BE HARMFUL UNDER NORMAL CONDITIONS OF USE.
INGESTION: MAY BE HARMFUL IF SWALLOWED.
INHALATION: MAY BE HARMFUL IF INHALED. LIQUID OR VAPOR CAN CAUSE IRRITATION OF NOSE, THROAT AND LUNGS.
SKIN MAY CAUSE IRRITATION ON PROLONGED OR REPEATED CONTACT.
EYES: CAUSES IRRITATION.

HANDLING PRECAUTIONS
SKIN ABSORPTION: AVOID PROLONGED OR REPEATED CONTACT WITH EYES, SKIN OR CLOTHING.
INHALATION: AVOID BREATHING VAPOR.
USE ADEQUATE VENTILATION.
SKIN: AVOID PROLONGED OR REPEATED CONTACT WITH SKIN.
EYES: AVOID CONTACT WITH EYES.
HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICES. THESE PRACTICES INCLUDE AVOIDING UNNECESSARY EXPOSURE AND REMOVAL OF THE MATERIAL FROM EYES, SKIN, AND CLOTHING.
WASH THOROUGHLY AFTER HANDLING.

EMERGENCY AND FIRST AID PROCEDURES
SKIN ABSORPTION IN CASE OF CONTACT IMMEDIATELY FLUSH EYES OR SKIN WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES.
INGESTION: IF ACCIDENTALLY SWALLOWED, DILUTE BY DRINKING LARGE QUANTITIES OF WATER. IMMEDIATELY CONTACT POISON CONTROL CENTER OR HOSPITAL EMERGENCY ROOM FOR ANY ADDITIONAL TREATMENT DIRECTIONS.
INHALATION: REMOVE TO FRESH AIR IF NOT BREATHING. GIVE ARTIFICIAL RESPIRATION. PREFERABLY MOUTH-TO-MOUTH. IF BREATHING IS DIFFICULT GIVE OXYGEN. CALL A PHYSICIAN.
SKIN CONTACT IN CASE OF IRRITATION FLUSH WITH WATER.
EYE CONTACT IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. EYELIDS SHOULD BE HELD APART DURING IRRIGATION TO INSURE WATER CONTACT WITH ENTIRE SURFACE OF EYES AND LIDS. CALL A PHYSICIAN.

FIRE AND EXPLOSION HAZARD DATA
COMBUSTIBLE.
KEEP AWAY FROM HEAT AND FLAME. IN CASE OF FIRE USE WATER SPRAY. DRY CHEMICAL "ALCOHOL" FOAM OR CO2. USE WATER TO KEEP FIRE-EXPLODED CONTAINERS COOL.

REACTIVITY DATA
NORMALLY STABLE AS DEFINED IN NFPA 704-124.3.1.

CONTROL MEASURES
IF AIRBORNE CONTAMINANTS ARE GENERATED WHEN THE MATERIAL IS HEATED OR PRESSED, SUFFICIENT VENTILATION IN VOLUME AND AIR FLOW PATTERNS SHOULD BE PROVIDED TO KEEP AIR CONTAMINANT CONCENTRATION LEVELS BELOW ACCEPTABLE CRITERIA.
ENGINEERING CONTROLS: USE THE FOLLOWING EXPOSURE CONTROL TECHNIQUES MAY BE USED TO EFFECTIVELY MINIMIZE EMPLOYEE EXPOSURE: LOCAL EXHAUST VENTILATION, ENCLOSURE SYSTEM DESIGN, PROCESS ISOLATION AND REMOTE CONTROL IN COMBINATION WITH APPROPRIATE USE OF PERSONAL PROTECTIVE EQUIPMENT AND PRUDENT WORK PRACTICES. THESE TECHNIQUES MAY NOT NECESSARILY ADDRESS ALL ISSUES FURTAINING TO YOUR OPERATIONS. WE THEREFORE RECOMMEND THAT YOU CONSULT WITH EXPERTS OF YOUR CHOICE TO DETERMINE WHETHER OR NOT YOUR PROGRAMS ARE ADEQUATE.

PERSONAL PROTECTION INFORMATION
WHERE AIR CONTAMINANTS CAN EXCEED ACCEPTABLE CRITERIA USE NIOSH/MSHA APPROVED RESPIRATORY PROTECTION EQUIPMENT. RESPIRATORS SHOULD BE SELECTED BASED ON THE FORM AND CONCENTRATION OF CONTAMINANTS. IN AIR IN ACCORDANCE WITH OSHA 29 CFR 1910.134 OR OTHER APPlicable STANDARDS OR GUIDELINES.
USE GOGGLES IF CONTACT IS LIKELY.
WEAR IMPERVIOUS GLOVES AS REQUIRED TO PREVENT SKIN CONTACT.

SPILL OR LEAK PROCEDURES
ELIMINATE ALL IGNITION SOURCES.
SOAK UP WITH ABSORBENT MATERIAL AND REMOVE TO A CHEMICAL DISPOSAL AREA.
PREVENT ENTRY INTO NATURAL BODIES OF WATER SEE REVERSE SIDE.
Waste Disposal Method

Recover free liquid; absorb residue and dispose of according to local, state, and federal requirements.

Empty container: may contain explosive vapors. Do not cut, puncture, or weld on or near-by.

Storage Precautions

Not harmed by freezing. But thaw frozen resin slowly and stir before using.

Store in a cool, dry place.

Keep container closed.

DOT Classification

Combustible.