
M A T E R I A L S A F E T Y D A T A S H E E T

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

THIS MATERIAL SAFETY DATA SHEET IS AVAILABLE IN SPANISH UPON REQUEST.

LOS DATOS DE SEGURIDAD DEL PRODUCTO PUEDEN OBTENERSE EN ESPANOL SI LO REQUIERE.

PRODUCT NAME : WELDWOOD WATERPROOF RESORCINOL GLUE(LIQUID RESIN)
 UPC NUMBER : 00226, 00227, 00228, 00229, 00230, 00232
 PRODUCT USE/CLASS : Liquid Resin
 MSDS NUMBER : 30220

MANUFACTURER: DAP INC. 24 HOUR EMERGENCY:
 2400 BOSTON STREET TRANSPORTATION: 1-800-535-5053 (352-323-3500)
 BALTIMORE, MD 21224 MEDICAL : 1-800-327-3874 (513-558-5111)

PREPARE DATE : 08/23/1996 GENERAL INFORMATION:
 REVISION NO. : 9 DAP INC. : 1-888-DAP-TIPS (1-888-327-8477)
 REVISION DATE: 12/30/1999

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

ITEM	CHEMICAL NAME	CAS NUMBER	WT/WT % RANGE
01	Resorcinol	108-46-3	1.0-5.0 %
02	Formaldehyde	50-00-0	0.5-0.7 %
03	Ethanol	64-17-5	10.0-30.0 %
04	Methanol	67-56-1	1.0-5.0 %

ITEM	ACGIH		OSHA		COMPANY	SKIN
	TLV-TWA	TLV-STEL	PEL-TWA	PEL-CEILING	TLV-TWA	
01	N.E.	N.E.	10 ppm	20 ppm	N.E.	NO
02	N.E.	0.3 ppm*	0.75 ppm	N.E.	N.E.	NO
03	1000 ppm	N.E.	1000 ppm	N.E.	N.E.	NO
04	200 ppm	N.E.	200 ppm	N.E.	N.E.	YES

(See Section 16 for abbreviation legend), * - TLV-Ceiling Value

Remaining ingredients are not considered hazardous per the OSHA Hazard Communication Standard.

Listed Permissible Exposure Levels (PEL) are from the U.S. Dept. of Labor OSHA Final Rule Limits (CFR 29 1910.1000); limits may vary between states.
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SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: WARNING! Combustible liquid and vapor. Vapor harmful. Harmful or fatal if swallowed. Liquid and vapor may irritate skin, nose, and respiratory tract.

POTENTIAL HEALTH EFFECTS:

EFFECTS OF OVEREXPOSURE - EYE CONTACT: Will cause eye irritation.

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: May irritate skin. Repeated contact can cause sensitization and dermatitis due to formaldehyde.

EFFECTS OF OVEREXPOSURE - INHALATION: Vapor harmful if inhaled. Vapor may irritate nose and upper respiratory tract. Vapor inhalation may affect the brain or nervous system causing dizziness, headache or nausea. May aggravate colds, allergies, asthma, emphysema, and psoriasis. Vapors may be carcinogenic.

EFFECTS OF OVEREXPOSURE - INGESTION: This material may be harmful or fatal if swallowed. Aspiration of material into the lungs due to vomiting can cause chemical pneumonitis which can be fatal. This product contains methanol, which if ingested may cause blindness, nausea and vomiting leading to severe illness or possible death. If ingested, this product may cause diarrhea, and depressed respiration. May cause stomach and intestinal irritation, vomiting, diarrhea, sweating, weakness, and headache. Ingestion of over about 1 gram/day of barium chloride may raise blood pressure and affect heart action.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: Reports have associated permanent brain and nervous system damage with prolonged and repeated occupational overexposure to solvents. Symptoms include: loss of memory, loss of intellectual ability, and loss of coordination. Formaldehyde is considered a suspect human carcinogen by the IARC and NTP. Risk to one's health depends on level and duration of exposure. Prolonged or repeated exposure may cause asthma or other allergic response and skin sensitization. Resorcinol may cause thyroid damage based on animal data.

MEDICAL CONDITIONS WHICH MAY BE AGGRAVATED BY CONTACT: Allergies, eczema, other skin conditions, asthma and other respiratory disorders.

PRIMARY ROUTE(S) OF ENTRY: SKIN CONTACT INHALATION

SECTION 4 - FIRST AID MEASURES

EYE CONTACT: Flush with large quantities of water until irritation subsides.

SKIN CONTACT: Wash with soap and water. Get medical attention if irritation persists.

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SECTION 4 - FIRST AID MEASURES

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

INGESTION: DO NOT INDUCE VOMITING. Dilute by giving water or milk to drink if victim is conscious.

COMMENTS: Call Medical in Section 1 if irritation or complications arise from any of the above exposures.

SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT: 110 F
(SETAFLASH CLOSED CUP)

LOWER EXPLOSIVE LIMIT: N.A.
UPPER EXPLOSIVE LIMIT: N.A.

AUTOIGNITION TEMPERATURE: N.E.

EXTINGUISHING MEDIA: ALCOHOL FOAM CO2 DRY CHEMICAL FOAM WATER FOG

UNUSUAL FIRE AND EXPLOSION HAZARDS: Combustible liquid. Vapors can travel through a source of ignition and flashback. Containers may explode if exposed to extreme heat. Eliminate sources of ignition: heat, electrical equipment, sparks, and flames. Do not put in contact with oxidizing or caustic materials.

SPECIAL FIREFIGHTING PROCEDURES: Full protective equipment, including self-contained breathing apparatus, is recommended to protect from combustion products. Cool exposed containers with water.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK PROCEDURES: Dike spill area. Immediately eliminate sources of ignition. Use absorbent material or scrape up dried material and place into containers.

SECTION 7 - HANDLING AND STORAGE

HANDLING INFORMATION: KEEP OUT OF REACH OF CHILDREN. Avoid skin and eye contact. Avoid breathing vapors. Use only in a well ventilated area.

STORAGE INFORMATION: Store away from caustics and oxidizers. Keep away from heat, spark, and flame. Keep containers tightly closed when not in use. Keep containers from excessive heat and freezing. Do not store at temperatures above 120 degrees F.

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SECTION 7 - HANDLING AND STORAGE

OTHER PRECAUTIONS: Intentional misuse by deliberately concentrating and inhaling vapors may be harmful or fatal. Do not take internally.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Provide sufficient mechanical ventilation (local or general exhaust) to maintain exposure below PEL and TLV. Vapors are heavier than air and will collect in low areas. Check all low areas (basements, sumps, etc.) for vapors before entering.

RESPIRATORY PROTECTION: If 8 hour exposure limit or value is exceeded for any component, use an approved NIOSH/OSHA respirator. Consult your safety equipment supplier and the OSHA regulation, 29 CFR 1910.134 for respirator requirements. A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

EYE PROTECTION: Goggles or safety glasses with side shields.

SKIN PROTECTION: Solvent impervious gloves.

OTHER PROTECTIVE EQUIPMENT: Provide eyewash and solvent impervious apron if body contact may occur.

HYGIENIC PRACTICES: Remove contaminated clothing and wash before reuse.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

BOILING RANGE	: 210 - 220 F	VAPOR DENSITY	: Is heavier than air
ODOR	: Distinct Alcohol		
APPEARANCE	: Reddish Brown	EVAPORATION RATE:	Is slower than Butyl Acetate
SOLUBILITY IN H2O	: Fair to Poor		
SPECIFIC GRAVITY	: 1.1500		
VAPOR PRESSURE	: 50 mm Hg @ 70 F.		
PHYSICAL STATE	: Liquid		

(See Section 16 for abbreviation legend)

SECTION 10 - STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Excessive heat and freezing.

INCOMPATIBILITY: Strong oxidizers and caustics.

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SECTION 10 - STABILITY AND REACTIVITY

HAZARDOUS DECOMPOSITION PRODUCTS: Normal decomposition products, i.e. COx, NOx, and aldehydes(including formaldehyde).

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

STABILITY: This product is stable under normal storage conditions.

SECTION 11 - TOXICOLOGICAL PROPERTIES

No product or component toxicological information is available.

SECTION 12 - ECOLOGICAL INFORMATION

No Information.

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE MANAGEMENT/DISPOSAL: Dispose of according to Federal, State, and Local Standards. Discarded material should be incinerated at a permitted facility. Liquids cannot be disposed of in a landfill. Do not reuse empty container. 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.

EPA WASTE CODE - If discarded (40 CFR 261): D001-Ignitable.

SECTION 14 - TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME: Adhesive(Consumer Commodity*)

DOT HAZARD CLASS: 3(ORM-D*)

DOT UN/NA NUMBER: UN1133(NONE*) PACKING GROUP: III(NONE*)

RESP. GUIDE PAGE: 171

* For containers of 1 gallon or less.

SECTION 15 - REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS: AS FOLLOWS -

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SECTION 15 - REGULATORY INFORMATION

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)

SARA SECTION 313:

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

CHEMICAL NAME	CAS NUMBER	WT/WT % RANGE
Formaldehyde	50-00-0	0.5-0.7 %
Methanol	67-56-1	1.0-5.0 %

TOXIC SUBSTANCES CONTROL ACT:

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

CHEMICAL NAME	CAS NUMBER
No information is available.	

NEW JERSEY RIGHT-TO-KNOW:

The following materials are non-hazardous, but are among the top five components in this product:

CHEMICAL NAME	CAS NUMBER
Glycerine	56-81-5
Water	7732-18-5

PENNSYLVANIA RIGHT-TO-KNOW:

The following non-hazardous ingredients are present in the product at greater than 3%:

CHEMICAL NAME	CAS NUMBER
Glycerine	56-81-5
Water	7732-18-5

CALIFORNIA PROPOSITION 65:

WARNING: The chemical(s) noted below and contained in this product, are known to the state of California to cause cancer:

CHEMICAL NAME	CAS NUMBER
Formaldehyde	50-00-0

INTERNATIONAL REGULATIONS: AS FOLLOWS -

CANADIAN WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations except for use of the 16 headings.

CANADIAN WHMIS CLASS: B3 Combustible. Consumer Commodity.

SECTION 16 - OTHER INFORMATION

HMIS RATINGS - HEALTH: 3 FLAMMABILITY: 2 REACTIVITY: 1

PREVIOUS MSDS REVISION DATE: 02/01/1997

REASON FOR REVISION:

SECTION 1: Address change and new emergency contact phone numbers.

VOC less water, less exempt solvent: 290-295 gm/l(16.0-17.0%)

VOC material: 290-295 gm/l

LEGEND: ACGIH - AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS

N.A. - NOT APPLICABLE

N.E. - NOT ESTABLISHED

PEL - PERMISSIBLE EXPOSURE LIMIT

NTP - NATIONAL TOXICOLOGY PROGRAM

SARA - SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986

STEL - SHORT TERM EXPOSURE LIMIT

TLV - THRESHOLD LIMIT VALUE(8 HR. TIME WEIGHTED AVERAGE OR TWA)

VOC - VOLATILE ORGANIC COMPOUND

NJRTK - NEW JERSEY RIGHT TO KNOW LAW

N.D. - NOT DETERMINED

MSDS# 30220

This data is offered in good faith as typical values and not as a product specification. No warranty either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review the recommendations in specific context of the intended use and determine if they are appropriate.

< End OF MSDS >