



The Adhesive Products, Inc.

Quality Products Since 1878 • Hot Melt and Water Base Adhesives • Custom Printed Pressure Sensitive Labels • Packaging Tapes

PRODUCT DATA

Flex Glue

1100
WATER BASED RESIN EMULSION
RESIN BOOK PASTE

SUGGESTED APPLICATION: Book binding and padding adhesive. tipping adhesive.

TYPICAL PROPERTIES:

Description: White colored, water based liquid emulsion.

Food Packaging Adhesive: Yes. Meets the FDA requirement 21CFR175.105 for food packaging adhesives.

Weight per gallon: 8.8 to 9.0 lbs.

pH: 4.4 to 5.0

Viscosity: 2550 to 2650 cps @ 25°C., (77°F.)

Solids: 40.0 to 42.0%

Speed of set: Moderate

Stays clear, dries clear

HANDLING AND APPLICATION:

Store at: Room temperature above 40°F.

Storage Life: 90 days in sealed container.

Usable after Freezing: No.

Use: As received.

Diluent: Water.

Cleanup: While wet: Warm water.

Dry: Hot water

CAUTION:

Do not contaminate.

Read MSDS prior to use.

Read notice on the back of this page.

REMARKS: 1100 offers more flexibility and cold temperature resistance than most book pastes and padding adhesive.

9503

NON-WARRANTY: The facts stated and the recommendations made with respect to use of any product are based on our own experiences and/or the experiences of others, and are believed to be reliable. No guarantee of their accuracy is made. Before using, purchaser shall determine the suitability of a product for his intended use, and purchaser assumes all risk and liability for consequential or incidental damages. ALL PRODUCTS ARE SOLD WITHOUT WARRANTIES OF ANY KIND, EXPRESSED OR IMPLIED, AS TO THEIR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. READ THE NOTICE ON THE BACK OF THIS PAGE.

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MATERIAL SAFETY DATA SHEET

PRODUCT 1100

SECTION 1 MATERIAL IDENTIFICATION

Product: 1100

Date Prepared: 1/30/97

Manufacturer: The Adhesive Products, Inc
520 Cleveland Ave
Albany, CA 94710

Telephone Number: 510-526-7616 (8am-5pm M-F)

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

Substances listed below are reportable hazardous ingredients as defined by the OSHA Hazard Communication Standard 29CFR1910.1200.

This product is not hazardous as defined in 29CFR1910.1200.

SECTION 3 HEALTH HAZARDS

Primary Routes of Exposure:

Inhalation
Skin Contact

Inhalation:

Inhalation of vapor or mist can cause mild irritation of nose, throat, and lungs.

Eye Contact:

Direct contact with the material can cause slight irritation.

Skin Contact:

Prolonged or repeated skin contact can cause slight skin irritation.

Ingestion:

Not an anticipated route of exposure. Available data indicate a low odor of toxicity. Excessive quantities may cause irritation of digestive tract.

PRODUCT 1100

Medical Conditions Generally Aggravated By Exposure

None known

Carcinogens Under OSHA, ACGIH, NTP, IARC, Other:

This product contains no carcinogens as defined in 29CFR1910.1200.

SECTION 4 FIRST AID

Inhalation:

Move subject to fresh air.

Eye Contact:

Flush eyes with large amount of water for at least 15 minutes. Seek medical advice if irritation persists.

Ingestion:

If swallowed give 2 glasses of water to drink. Seek medical attention. Never give anything by mouth to an unconscious person.

Skin Contact:

Wash affected area with soap and water

SECTION 5 FIRE AND EXPLOSION DATA

Flash Point Noncombustible

Auto-ignition Temperature Not Applicable

Lower Explosive Limit Not Applicable

Upper Explosive Limit Not Applicable

Extinguishing Agents:

For dry polymer use water or carbon dioxide. Product does not burn. Aqueous mixture is not flammable.

Personal Protective Equipment:

Wear self-contained breathing apparatus (pressure-demand MSHA/NIOSH approved or equivalent) and full protective gear.

Unusual Hazard:

Product can spatter above 100°C./212°F. Dried product can burn. Water, carbon dioxide, carbon monoxide, and smoke are produced.

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SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Protection:

Appropriate protective equipment must be worn when handling a spill of this product. See SECTION 8, EXPOSURE CONTROLS/PERSONAL PROTECTION for recommendations.

Containment:

Stop the leak. Remove any ignition sources. Ventilate the area. Construct a dike of inert material (sand, earth) to prevent spread.

Clean-up Procedures:

If recovery is not possible, mix with dry soil, sand or non reactive absorbent (sodium chloride) and transfer to suitable containers for recovery or disposal. Wash contaminated property quickly before product dries. Flush area with water spray. Keep clean-up run off from municipal sewers or open bodies of water.

Special Notes:

Spilled product is slippery. Use caution and avoid falls.

SECTION 7 HANDLING AND STORAGE

Storage:

Keep from freezing.

Handling:

Avoid breathing vapors. Handle in well ventilated work area

Special Requirements

Have emergency showers and eye wash stations readily available.

SECTION 8 PERSONAL PROTECTION/EXPOSURE CONTROLS

Hazardous Ingredients:

No.	WEIGHT (%)	CAS NUMBER
1)	This product is not hazardous as defined in 29CFR1910.1200.	
2)		
3)		

PRODUCT 1100

Exposure Limits:

	Units	TWA	STEL	CEILING
1) OSHA	N/A	N/A	N/A	N/A
ACGIH	N/A	N/A	N/A	N/A
2) OSHA	N/A	N/A	N/A	N/A
ACGIH	N/A	N/A	N/A	N/A
3) OSHA	N/A	N/A	N/A	N/A
ACGIH	N/A	N/A	N/A	N/A

Eye Protection:

Chemical splash goggles (ANSI Z87.1 or approved equivalent).

Hand Protection:

Neoprene rubber gloves.

Respiratory Protection:

Not required under normal conditions. Use a NIOSH approved organic vapor respirator for severe conditions.

Protective Clothing:

No specific recommendation.

Engineering Controls:

Use local exhaust ventilation with minimum capture velocity of 100ft./min. (1.5m/sec.) at the point of vapor evolution.

Other Protective Equipment:

Eyewash facility.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical Form	Liquid
Color	White
Odor	Sweet
pH	4.0 to 6.0
Vapor Density	No Data
Vapor Pressure	No Data
Melting Point	0°C./32°F.
Boiling Point	>100°C./212°F.
Solubility in Water	Dilutable
Specific Gravity	1.06 to 1.08 (water = 1)
Percent Volatility	58.0 to 60.0%

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SECTION 10 STABILITY AND REACTIVITY

Chemical Stability:

Stable at ambient temperatures. Freezing or boiling may cause coagulation.

Incompatibility:

Avoid mineral acids (i.e. Sulfuric, phosphoric, etc.) Avoid alkalis (i.e. sodium or potassium hydroxide) and acetic acid.

Hazardous Polymerization:

Will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

Please refer to Section 3, HAZARD IDENTIFICATION, for available information on potential health effects.

SECTION 12 ECOLOGICAL INFORMATION

No available data

SECTION 13 DISPOSAL CONSIDERATIONS

Waste Disposal:

Comply with all Federal, State, Provincial and Local Regulations. This product can be chemically or biologically degraded. If necessary a licensed waste disposal facility maybe used. The product can be incinerated, though chemical or biological treatment is sufficient.

SECTION 14 TRANSPORT INFORMATION

DOT SHIPPING NAME:

RESIN COMPOUND - Not DOT Regulated
Keep From Freezing

SECTION 15 REGULATORY INFORMATION

Food and Drug Administration (FDA):

This product can be used in compliance with FDA regulation 21 CFR 175.105 Adhesives, subject to the end use extractive limitations cited in the regulation.

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Toxic Substance Control Act (TSCA):

All components are included in the EPA Toxic Substance Control Act Chemical Substance Inventory.

OSHA Hazard Communication Standard (29CFR1910.1200):

Hazard class is none

EPA SARA Title III Section 312 (40CFR370):

Hazard class is none

EPA SARA Title III Section 313 (40CFR372):

No toxic chemicals above the "de minimis" level.

CERCLA (40CFR302.4):

Releases of this product to air, land, or water are not reportable to the National Response Center or to local and state emergency planning committees.

Waste Classification:

If discarded as supplied this product does not meet the RCRA definition of ignitability, corrosivity, or reactivity, and is not listed in 40CFR261.33.

WHMIS HAZARD CLASSIFICATION:

None

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

California Proposition 65:

This product contains a trace component or trace components known to the state of California to cause cancer and/or reproductive toxicity and subject to warning and discharge requirements under the "Safe Drinking Water and toxic Enforcement Act of 1986: Formaldehyde

SECTION 16 - OTHER INFORMATION

HMIS RATING:

Health	1	Flammability	0	Reactivity	0	SCALE
						Severe = 4
						Serious = 3
						Moderate = 2
						Slight = 1
						Minimal = 0

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Abbreviations:

ACGIH	American Conference of Governmental Industrial Hygienists
ANSI	American National Institute Standard
CAS	Chemical Abstract Service Number
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CPR	Controlled Products Regulations
DOT	Department of Transportation
EPA	Environmental Protection Agency
Hg	Mercury
HMIS	Hazardous Materials Identification System
IARC	International Agency for Research on Cancer
L.D	Lethal Dose
mg/kg	Milligram per kilogram
mm	Milligram
MSDS	Material Safety Data Sheet
MSHA	Mine Safety and Health Administration
N/A	Not Applicable
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
ppm	Parts per million
SARA	Superfund Amendment and Reauthorization Act
STEL	Short-Term Exposure Limit
TSCA	Toxic Substance Control Act
TWA	Time Weighted Average
WHMIS	Workplace Hazardous Materials Information System

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