Safety Data Sheet

SDS No. 220-99
Date of Preparation: Jan. 12, 1999 **Revised May 13, 2015**

1. PRODUCT IDENTIFICATION

Product Name:	Ad-Tech 220
Product Description:	Hot Melt Adhesive
Suggested Purpose and Limitations:	Bonding, adhesion
Manufacturer, Importer, Supplier:	Adhesive Technologies, Inc. 3 Merrill Ind. Dr. Hampton, NH 03842 Taipei Hsien, Taiwan
Phone:	(603) 926-1616
Fax:	(603) 926-1780

2. HAZARD IDENTIFICATION

Toxicity Data: Conforms to ASTM D-4236 as non-toxic.

Product is non-hazardous as defined in 29 CFR 1910.1200

GHS Label: None

Label Content: **Symbol:** None
Warnings: None
Hazard Warning Message: None
Hazard Prevention Measure: None
Other Hazards: Touching adhesive directly while melting by heat will cause contact burns.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Substance Name	CAS No.	Concentration (%)
Ethylene Vinyl Acetate Copolymers	24937-78-8	70-90 %
Rosin Ester	8050-26-8	10-30 %
Anti-Oxidant	6683-19-8	0.02-2 %

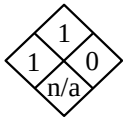
Hazardous Ingredients	None	

4. FIRST-AID MEASURES

Potential Health Effects	
Eyes	Vapors and fumes released at or above application temperature may cause irritation.
Inhalation	Vapors and fumes released at or above application temperature may cause irritation of the nose, throat and respiratory tract.
Skin	Hot molten adhesive will burn and blister skin tissue.
Ingestion	Ingestion is not a likely route of exposure. Small amounts are not anticipated to be harmful.
Carcinogenicity	IARC, NTP, and OSHA do not list Ad-Tech 220 as a carcinogen.
Medical Conditions Aggravated by Long-Term Exposure	No known effects on other illnesses.
Chronic Effects	No anticipated chronic effects.
Emergency and First Aid Procedures	
Inhalation:	If irritation occurs, remove to fresh air. Seek medical attention if symptoms persist.
Eye Contact:	Hot molten adhesive will adhere to and burn eye and surrounding skin upon contact. Immediately flush affected area with cold water to cool adhesive. Do not pull solidified adhesive from eye. Seek medical attention.
Skin Contact:	Hot molten adhesive will adhere to and burn skin upon contact. Immediately immerse affected area in ice water. Do not pull solidified adhesive from skin. Seek medical attention.
Ingestion:	If ingested, seek medical attention.
Note to Physicians:	This adhesive was determined by a toxicologist to be non-toxic.
Special Precautions / Procedures:	None

5. FIRE FIGHTING MEASURES

Flash Point:	> 450° F (232° C)	
Flash Point Method:	CC.	

Autoignition Temperature:	>800° F (>427° C)	NFPA 
Extinguishing Media:	Carbon Dioxide, Foam	
Unusual Fire or Explosion Hazards:	None	
Special Fire-Fighting Instructions:	None	
Fire-Fighting Equipment:	Fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face-piece operated in pressure-demand or positive-pressure mode, and protective clothing.	
Explosion Bottom Line:	Upper limit - not applicable. Lower limit – not applicable.	

6. ACCIDENTAL RELEASE MEASURES

Individual Precautions:	Avoid getting burns by avoiding contact with the hot melting materials.
Environmental Precautions:	In accordance with international conventions or local regulations. Incineration at the government-approved incineration facilities.
Cleanup:	Normal housekeeping and clean up (no special procedures).
Disposal:	Follow applicable Federal, state, and local regulations for proper disposal procedures.

7. HANDLING AND STORAGE

Handling Precautions:	Avoid contacting the hot material with the skin.
Storage Requirements:	Store in cool dark area.

8. EXPOSURE CONTROLS – PERSONAL PROTECTION

Engineering Control:	Local ventilation recommended.	**HMIS** H 0 F 0 R 0 PPE B
Control Parameters:	Time weighted average for 8 hour shift(TWA) – No data Short Term Exposure Limit (STEL) – No data Ceiling – No data Biological Exposure Index (BEI) – No data	
Respiratory Protection:	Though the smoke and odor generated by hot melting glue is not toxic, each person has different sensitivity tolerances, it is recommended to wear a mask.	

Personal Protective Equipment:	Hand protection – heat insulated gloves Eye protection – safety goggles Skin protection – wear long-sleeved or protective clothing.
Sanitary Measures:	No specific requirements.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Solid
Olfactory Threshold:	Not applicable
pH:	7.8
Flash Point:	Over 450°F / 232°C
Test Method:	Closed cup
Auto-ignition Temperature:	>800°F/>427°C
Specific Gravity:	.98 (H2O=1 @ 4°C)
Evaporation Rate:	Not applicable
Odor:	Resin
Melting Point:	185°F (85°C)
Boiling Point:	Not applicable
Flammability:	Not applicable
Decomposition Temperature:	Not applicable
Explosion Limit:	Not applicable
Water Solubility:	Nil
Octanol / Water Partition Coefficient (Low Kow):	Not applicable
Color:	Translucent / Clear
Viscosity:	9,370 -15,630 cps @ 350°F

10. STABILITY AND REACTIVITY

Stability:	Stable
Polymerization:	Hazardous polymerization will not occur.
Incompatibilities – Materials to avoid:	Strong oxidizing agents.
Hazardous Decomposition Products:	Thermal oxidative decomposition of Ad-Tech 220 can produce carbon monoxide and /or carbon dioxide.

11. TOXICOLOGICAL INFORMATION

Exposure Approach:	None
Symptoms:	None

Acute Toxicity- Inhalation:	Inhalation of dust and smoke will stimulate the respiratory system.
Skin:	None
Eyes:	None
LD50(testing animal's absorbtion approach):	500mg/24hr(rabbit, skin) – No Data 20mg/24hr(rabbit, eyes) – No Data
Chronic Toxicity or Long-Term Toxicity:	None

12. ECOLOGICAL INFORMATION

Ecological Toxicity:	LC50 (fish)- No Data EC50 (aquatic invertebrates)- No Data
Sustainable and De-toxic:	Difficult to naturally degrade, but can be recycled by appropriate ways.
Ecologic Accumulation:	No Data
Liquidity in Soil:	No Data
Other Effects:	Improper burning may generate hazardous gas.

13. DISPOSAL CONSIDERATIONS

Disposal Considerations:	1. Refer to relevant regulations. 2. Store waste according to storage conditions. 3. Able to apply specific incineration or sanitary landfilling.

14. TRANSPORT INFORMATION

The United Nations Number:	None
The United Nations Shipping Name:	None
D.O.T. Hazard Class:	None
Package Category:	None
Maritime Pollutants:	No
International Transport Regulation:	Not Regulated
Domestic Transport Regulation:	Not Regulated
Special Transport Way and Note:	Not Regulated

15. REGULATORY INFORMATION

EPA Regulations:	
RCRA Hazardous Waste	Not applicable.

Number:	
RCRA Hazardous Waste Classification:	Not applicable.
CERCLA Hazardous Substance (40 CFR 302.4):	Unlisted, specific per RCRA, Sec. 3001; CWA, Sec. 311 (b)(4); CWA, Sec. 307(a), CAA, Sec. 112
CERCLA Reportable Quantity (RQ):	Not applicable.
SARA 311/312 Codes:	Not applicable.
SARA Toxic Chemical (40 CFR 372.65):	Not listed
SARA EHS (Extremely Hazardous Substance) (40 CFR 355):	Not applicable, non-hazardous.
OSHA Regulations:	
Air Contaminant (29 CFR 1910.1000, Table Z-1, Z-1-A):	Not applicable.
OSHA Specifically Regulated Substance (29CFR 1910):	Not applicable.
State Regulations:	None

16. OTHER INFORMATION

Prepared Company:	Adhesive Technologies, Inc. 3 Merrill Industrial Drive Hampton, NH 03842 603-926-1616 www.adhesivetech.com
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