

**MATERIAL SAFETY DATA SHEET**  
For chemicals, coatings and related materials

DATE :	SUPERSEDES	PREPARED BY:
March 2, 1994	March 3, 1993	Mark Horton
<b>Distributor</b>		
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ADDRESS: (317) 842-2600		INFORMATION PHONE NUMBER
ADDRESS:	PHONE:	(317) 842-2600

<b>Section I - Product</b>	
NUMBER: 71-200	H M I S Hazard Codes
	Health: 2 Moderate
	Flammability: 3 Serious
	Reactivity: 0 Minimal
	Personal Protective Equipment: G
NAME: Tubetak-200 Permanent Adhesive	
CLASS : Adhesive	
CAS NUMBER: none - mix	

<b>Section II - Hazardous Ingredients</b>				
Ingredient: Material Description	Percent by Weight	C.A.S. Registry Number	LEL	Vapor Pressure [mm Hg at 20 deg C]
Hexane	5-10	110-54-3	1	150
Light aromatic naphtha	15-40	64742-95-6	<1	8
Kaolin Clay	10-30	1332-58-7	None	None
Calcium carbonate [limestone]	30-60	1317-65-3	None	None
No ingredients reportable under SARA Title 313, Section III				

<b>Section III - Physical Data</b>			
Boiling Range:	142-183 deg F	Freezing Point:	No data
Vapor Pressure:	approx 150 mm Hg at 25 deg C	Vapor Density:	Heavier than air.
Specific Gravity:	1.23	H2O Soluble:	Slight [<1%]
Evaporation Rate(relative to n-butyl acetate)	Faster	% Volatile by Volume:	40-45
pH:	No data	Odor Threshold:	no data
Appearance and Odor:	Smooth semi-paste	odor of paint thinner	

<b>Section IV - Fire and Explosion Hazard Data</b>			
FLASH POINT: (Method Used)	<0 deg F [TCC]	EXPLOSIVE LIMITS: LEL	1.2
		(%V in air) UEL	7.7
AUTOIGNITION TEMP:	no data	METHOD:	N/A

### Section IV - Fire and Explosion Hazard Data

OSHA FLAMMABILITY CLASSIFICATION		Class I B flammable	
EXTINGUISHING MEDIA:	Water Spray (Fog), Foam, Dry Chemical or Carbon Dioxide.		
SPECIAL FIRE FIGHTING PROCEDURES	Fire Fighters must wear self contained breathing apparatus or air masks.	Containers exposed to fire should be kept cool with water spray.	A water stream directed into the fire may cause frothing with subsequent spread of fire
UNUSUAL FIRE AND EXPLOSION HAZARDS:	Closed containers may explode due to build up of pressure when exposed to heat.	Thermal decomposition or combustion of product may generate irritating and/or toxic gases.	Vapor is heavier than air and may travel along the ground or floor and be ignited at locations distant from the source.

### Section V - Toxicological Information

Ingredient Material Description	PEL [mg/m <sup>3</sup> ]	TLV STEL [mg/m <sup>3</sup> ]	TLV[twa]		LD50 [mg/kg]		LC50 [ppm] Rat INHAL
			mg/m <sup>3</sup>	ppm	RAT [oral]	RABBIT [dermal]	
Hexane	50 ppm	Not listed	Not listed	50	No data	No data	No data
Light aromatic naphtha	400 ppm	Not listed	Not Listed	400	No data	No data	No data
Kaolin Clay	10*, 5**	N/A	10*	N/A	N/A	N/A	N/A
Calcium carbonate	10* 5**	Not listed	10*	Not listed	N/A	N/A	N/A
* Total dust ** Respirable dust							

### Section VI - Health Hazard Data and Emergency/first Aid Procedures

THRESHOLD LIMIT VALUES: See Section V	
ACUTE OVEREXPOSURE INFORMATION	
EYES:	Moderate irritant. May cause reversible corneal injury.
SKIN:	Moderate irritant. May cause dermatitis and allergic responses.
INHALATION:	Avoid inhaling. The product can produce central nervous system depression, and cause headaches, drowsiness and lack of coordination.
INGESTION:	May cause nausea and vomiting. No specific effects known.
NOTE:	Preexisting respiratory or skin condition(s) may be aggravated by exposure.
CHRONIC OVEREXPOSURE INFORMATION:	
1) This product does not contain dust as produced and does not generate dust in normal use. Dust generated by abnormal activities, such as sanding or grinding, could contain a trace amount of free, respirable silicon dioxide [quartz]. NTP and IARC have listed free respirable silicon dioxide [quartz] as a suspect human carcinogen. Prolonged and/or repeated overexposure to free respirable silica may cause silicosis or other delayed and serious lung injury. Dusts so generated will contain particles of inert kaolin clay and/or calcium carbonate. Chronic overexposure to dusts from these substances may cause delayed and/or serious lung injury.	
2) No other known components of this product are listed as known or suspected carcinogens per NTP, IARC, or OSHA.	
3) This product contains N-hexane. Individuals exposed to N-hexane in the 1000-1500 ppm range may develop peripheral neuropathy.	
4) This product contains solvents[hexane and light aromatic naphtha]. Reports associate repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Reports also indicate that solvents cause liver damage, kidney damage, and mucous membrane irritation. Be warned that intentional misuse of this product by deliberately inhaling the vapors and/or the contents [a process often called "sniffing"] may be harmful or fatal.	
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Any pre-existing respiratory or skin condition.	
EMERGENCY AND FIRST AID PROCEDURES:	
EYES:	Flush the eyes with plenty of water for at least 15 minutes. If necessary, gently hold the eyelids open during the flush. Obtain immediate medical attention.

### Section VI - Health Hazard Data and Emergency/first Aid Procedures

SKIN:	Remove contaminated clothing and shoes. Wash affected area(s) thoroughly with soap and water. If symptom persist, get medical attention.
INHALATION:	Move the victim into fresh air. If the victim has difficulty breathing, administer oxygen. Administer artificial respiration if the victim is not breathing. Obtain immediate medical attention.
INGESTION:	Obtain immediate medical attention. Do not induce vomiting. Should vomiting occur, be sure to keep victim's head below hips to avoid aspiration of vomitus into the lungs.

### Section VII - Reactivity Data

STABILITY:	Stable
STABILITY CONDITIONS TO AVOID:	None known
INCOMPATIBILITY (MATERIALS TO AVOID CONTACT WITH):	Strong acids and bases
HAZARDOUS DECOMPOSITION PRODUCTS:	Oxides of carbon, other acid/toxic fumes.
HAZARDOUS POLYMERIZATION:	None

### Section VII - Spill or Leak Procedures

STEPS FOR MATERIAL SPILLAGE:
Ventilate the area and remove all sources of ignition. Evacuate unnecessary personnel. Wipe up small spills with rags or towels. Put spent rags or towels in loosely covered containers in a well-ventilated area. Large spills should be handled carefully. Put on respiratory protection. Dike or impound spilled liquid. Cover the spill with absorbent compound [e.g., vermiculite, clay, or sand]. Use non-sparking tools to sweep or shovel into containers. Cover loosely and remove to a well-ventilated waste area. Repeat sorbent/sweep cycle until the spill has dried up. Rinse the spill area thoroughly with water. Flush the rinsings to the sanitary sewer or soak them up with absorbent material. Do not discharge undiluted product to the sanitary sewer. Do not discharge the product or cleanup wastes to lakes, streams, ponds, or sewer. Avoid contact with eyes and skin.
WASTE DISPOSAL METHODS:
Review all local, state, and federal regulations concerning health and pollution for appropriate disposal procedures. Do not incinerate closed containers.

### Section IX - Special Protection Information

RESPIRATORY PROTECTION: Wear NIOSH/MSHA approved respiratory protection when the product is mixed or applied in a poorly ventilated area or if workplace levels of ingredients exceed the TLV. Follow applicable federal, state, and local regulations
VENTILATION: Use local exhaust [e.g., open windows, fans] as needed to keep vapor/dust levels below recommended limits.
PROTECTIVE EQUIPMENT: Wear gloves [Natural rubber, supported PVA, neoprene, nitrile], eye goggles, and clean protective clothing to cover arms and legs and keep exposure to a minimum.

### Section X - Special Precautions

#### HANDLING AND STORAGE PRECAUTIONS

FOR PROFESSIONAL USE ONLY.	DO NOT TAKE INTERNALLY
AVOID CONTACT WITH EYES, CLOTHING, AND SKIN	KEEP CONTAINER CLOSED WHEN NOT IN USE
KEEP OUT OF REACH OF CHILDREN	USE ONLY WITH ADEQUATE VENTILATION

### Section XI - Regulatory Data

VOC CONTENT: 336.8 g/L

CALIFORNIA PROPOSITION 65:

The dust from this product may contain trace amounts of free respirable crystalline silicon dioxide, a substance listed by the State of California as known to cause cancer.

TRANSPORTATION

DOT

UN

### Section XI - Regulatory Data

HAZARD CLASS :	Flammable liquid	flammable liquid
UN/NA NUMBER :	UN1133	UN1133
SHIPPING NAME:	Adhesives [containing a flammable liquid]	Adhesives [containing a flammable liquid]
PLACARD AT	N/A	N/A
CLASS NUMBER :	3	AIR: 3 MARINE: 3
SUBSIDIARY RISK :	N/A	AIR: N/A MARINE: N/A
PACKING GROUP:	II	AIR: II MARINE: II
<b>REPORTING</b>		
CERCLA REPORTABLE QUANTITY: None AS WASTE: 100 lbs		
SARA SECTION 304 EMERGENCY RESPONSE REPORTABLE QUANTITY: None		
SARA SECTION 311/312 INVENTORY REPORTING (Y/N): Y		
SARA SECTION 311/312 HAZARD CLASS(ES): Acute and chronic health hazard. Fire hazard		
SARA SECTION 313 ROUTINE RELEASE REPORTING CHEMICALS: None		
COMPONENTS ON TSCA INVENTORY (Y/N): Y		
<b>DISPOSAL</b>		
EPA RCRA WASTE CLASS: Ignitable		
EPA RCRA WASTE NUMBER: D001		
CALIFORNIA LIST LAND BAN (Y/N): Y		

### ABBREVIATIONS USED:

N/A = Information or data Not Available , NTP = National Toxicology Program.  
 IARC = International Agency for Research on Cancer, NIOSH = National Institute of Occupational Safety and Health.  
 ACGIH = American Conference of Governmental Industrial Hygienists, OSHA = Occupational Safety and Health Administration,  
 PEL = Permissible Exposure Limit (8-hr. TWA) (OSHA), TLV = Threshold Limit Value (8-hr. TWA) (ACGIH),  
 STEL = Short Term Exposure Limit (15-min TWA) (OSHA) , C = Ceiling Value.

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REASON FOR REVISION: Complete review

Revision Required: Y