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### MATERIAL SAFETY DATA SHEET

#### SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

##### COMPANY INFORMATION

TEC Incorporated  
H.B. Fuller Company Subsidiary  
315 South Hicks Road  
Palatine, IL 60067  
Phone: 1-708-358-9500  
Fax: 1-708-358-9510

##### MSDS INFORMATION

Preparation Date: 08/13/96  
Supersedes: None  
Prepared By: Industrial Hygiene  
Phone Number: 612-481-4842

Medical Emergency Phone Number: 1-800-228-5635 ext 018  
Transport Emergency Phone Number (CHEMTREC): 1-800-424-9300

##### PRODUCT INFORMATION

Product Name/Number: TA-0171, TILEBOARD ADHESIVE  
Product Description (product use): SOLVENT ADHESIVE

#### SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

This Material Safety Data Sheet is prepared to comply with the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200) and the Canadian Workplace Hazardous Materials Information System (WHMIS). Unlisted ingredients are not 'hazardous' per the OSHA standard and/or are not found on the WHMIS ingredient disclosure list.

Chemical/CAS Number	Percent	OSHA PEL	ACGIH TLV
n-Hexane (110-54-3)	10-30%	50 ppm	50 ppm
other isomers		500 ppm	500 ppm
LD50: 28,710 mg/kg (oral, rat)		LC50: 48,000 ppm/4h (rat)	
Vapor pressure, in mm Hg @ 20 C: 120			
OSHA, ACGIH STEL: 1000 ppm (for isomers)			
VM&P Naphtha (8032-32-4)	10-30%	300 ppm	300 ppm
LD50: No data found		LC50: 3400 ppm/4h (rat)	
Vapor pressure, in mm Hg @ 20 C: 15			
OSHA, ACGIH STEL: 400 ppm			
Xylene (mixed isomers) (1330-20-7)	1-5%	100 ppm	100 ppm
LD50: 5 gm/kg (oral, rat)		LC50: 4550 ppm/4h (rat)	
Vapor pressure, in mm Hg @ 20 C: 6			
OSHA, ACGIH STEL: 150 ppm (Skin)			

Skin absorption may potentially contribute to the overall exposure to this material. Appropriate measures should be taken to prevent absorption so that the TLV is not invalidated.

See Section 16 for additional information.

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**SECTION 3: HAZARDS IDENTIFICATION****EMERGENCY OVERVIEW**

Flammable

Eye irritant

Contact will dry and defat the skin

Vapors harmful

Harmful if swallowed

May cause adverse reproductive effects, based on tests with laboratory animals.

Possible cancer hazard. Contains a material which may cause cancer.

**POTENTIAL HEALTH EFFECTS**

Eyes: Contact with the product or high vapor levels will cause irritation.

Skin: Liquid contact will dry and defat the skin. Prolonged or repeated contact may cause irritation and sensitization.

Inhalation: Overexposure to vapors in poorly ventilated areas will cause irritation of the nose, throat and respiratory tract and may cause dizziness, headaches, nausea or unconsciousness.

Ingestion: Harmful if swallowed.

Chronic: n-Hexane has been demonstrated to cause peripheral nerve damage in overexposed workers. Symptoms include loss of feeling and weakness in the hands and feet and loss of manual dexterity. Overexposure to xylene may cause female and male reproductive disorders, based on tests with laboratory animals.

**REGULATED CARCINOGEN STATUS:**

Crystalline silica is listed as a potential carcinogen by NTP and IARC.

Existing Health Conditions Affected by Exposure: No known effects on other illnesses.

**SECTION 4: FIRST AID MEASURES**

If in eye: Flush immediately with large amounts of water for at least 15 minutes. Call a physician.

If on skin: Wash affected area with soap and water. Launder contaminated clothing before reuse.

If vapors inhaled: Remove from exposure. Restore breathing if necessary. Keep warm and quiet. Call a physician.

If ingested: If person can swallow, give one glass of water or milk. Do not induce vomiting. Get immediate medical attention. Never give anything by mouth to an unconscious person.

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**SECTION 5: FIRE FIGHTING MEASURES**

Flash Point/Method: LESS THAN 100 degrees F SETA

Upper Explosive Limit/Lower Explosive Limit: Not established

Autoignition Temperature: Not established

Appropriate Extinguishers: Use water spray, foam, dry chemical or carbon dioxide.

Special Fire Fighting Procedures: Persons exposed to products of combustion should wear self-contained breathing apparatus and full protective equipment.

Unusual Fire and Explosion Hazards: There is the possibility of pressure buildup in closed containers when heated. Water spray may be used to cool the containers.

Solvent vapors are heavier than air and may travel along the ground or be moved by ventilation and ignited by heat, pilot lights, other flames and ignition sources at locations distant from the material handling point. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

Hazardous Combustion Product: Incomplete combustion can yield low molecular weight hydrocarbons, carbon monoxide

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

Spill or Leak Procedures: Remove all sources of ignition. Ventilate area. Avoid breathing vapors. Dike and contain spill with inert absorbent and transfer to container for disposal. Use non-sparking tools. Keep spill out of sewers.

**SECTION 7: HANDLING AND STORAGE****HANDLING INFORMATION**

Keep away from heat, sparks and flame  
Avoid breathing vapors  
Use only with adequate ventilation  
Avoid contact with eyes, skin and clothing  
Wash thoroughly after handling  
Keep container closed  
Emptied container retains vapor and product residue  
Observe all labeled precautions until container is cleaned  
DO NOT CUT OR WELD ON OR NEAR THIS CONTAINER

**STORAGE INFORMATION**

Consult the Technical Data Sheet for specific storage instructions.

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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

Eye Protection: Wear safety glasses to reduce the potential for eye contact; chemical safety goggles are appropriate if splashing is likely. Have eye washes available where eye contact can occur.

Skin Protection: Prevent contact by using rubber gloves and appropriate protective clothing. Launder contaminated clothing before reuse.

Respiratory Protection: Use NIOSH approved supplied air respirator if conditions warrant.

Ventilation: Local exhaust ventilation preferred. Provide ventilation to control contaminant levels below airborne exposure limits.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Physical State:	SOFT PASTE
Color:	LIGHT TAN
Odor:	SOLVENT
Odor Threshold:	Not established
Weight per Gallon:	9.92
Specific Gravity:	1.189
% Solids by Weight:	70
pH:	Not applicable
Boiling Range:	Greater than 156 F (69 C)
Freezing/Melting Point:	Not applicable
Vapor Pressure:	Not established
Vapor Density:	Not established
Evaporation Rate:	Not established
Water/Oil Partition Coefficient:	Not established
VOC:	333 GRAM/LITER g VOC/liter of material (VOC analytically determined using Federal method 24)

**SECTION 10: STABILITY AND REACTIVITY DATA**

Stability: Stable

Incompatibility: Not established

Hazardous Decomposition: Not established

Hazardous Polymerization: Will not occur

**SECTION 11: TOXICOLOGICAL INFORMATION**

No data available

**SECTION 12: ECOLOGICAL INFORMATION**

No data available

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**SECTION 13: DISPOSAL CONSIDERATIONS**

This product meets the definition of hazardous waste under the U.S. EPA Hazardous Waste Regulations 40 CFR 261. It is ignitable waste class D001. Disposal via incineration is recommended. Consult your state, local, or provincial authorities for more restrictive requirements.

**SECTION 14: TRANSPORTATION INFORMATION**

UNITED STATES DEPARTMENT OF TRANSPORTATION (DOT)

DOT Proper Shipping Name: ADHESIVES, LIMITED QUANTITY, NMFC ITEM  
#4620, SUB 5  
DOT Hazard Class/I.D. Code: 3, UN1133  
DOT Label: FLAMMABLE LIQUID  
DOT Packaging Group: III

It is our opinion that the information provided here may be used to transport this product in compliance with Canadian Transportation of Dangerous Goods.

**SECTION 15: REGULATORY INFORMATION****FEDERAL**

Toxic Substances Control Act (TSCA)

## Section 8(b) - Inventory Status

This product is in compliance with the Toxic Substances Control Act's Inventory requirements.

## Section 12(b) - Export Notice Requirements

This product contains a chemical substance that is currently on the EPA's Section 12(b) Export List. Within seven days of entering into a contract to export and certainly no later than the day of export, the agent of export must notify the EPA of their intent.

Contact the H.B. Fuller TSCA Compliance Manager at 612/481-4816 for the identity of the Section 12(b) chemical(s).

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## SARA TITLE III

Section 313: This product contains the following toxic chemical(s) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR part 372:

Chemical Name	CAS Number	Percent
n-Hexane	110-54-3	10-30%
Xylene	1330-20-7	1-5%

## STATE REGULATIONS

California Proposition 65: Proposition 65, The Safe Drinking Water and Toxic Enforcement Act of 1986:

This product contains chemical(s) known to the state of California to cause cancer (c) or reproductive (r) damage.

<0.0142% Benzene (c)	71-43-2
listed February 27, 1987	
1-5% Crystalline silica (c)	14808-60-7
listed October 1, 1988	

## WHMIS IDENTIFICATION/OTHER INTERNATIONAL REGULATIONS

B2, D2A, D2B

## SECTION 16: ADDITIONAL INFORMATION

Drums of this material should be grounded when pouring.

This product contains the following substance(s) identified by OSHA, WHMIS, or the ACGIH as hazardous. During normal use, the material will not present an exposure risk. Once the product has reached its final state and is abraded or disturbed, dusting and exposure may occur.

0.1-1.0% Kaolin (1332-58-7)

Exposure limit total dust 10 mg/M3 (OSHA) 10 mg/M3 (ACGIH)

Exposure limit respirable dust 5 mg/M3 (OSHA) 2 mg/M3 (ACGIH)

LD50: No data found LC50: No data found

1-5% Silica-crystalline (14808-60-7)

Exposure limit respirable dust 0.1 mg/M3 (OSHA) 0.1 mg/M3 (ACGIH)

LD50: No data found LC50: No data found

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## HMIS RATING

Health-2      Flammability-3      Reactivity-0

See SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for personal protective equipment recommendations.

The information and recommendations set forth herein are believed to be accurate. Because some of the information is derived from information provided to the H.B. Fuller Company from its suppliers, and because the H.B. Fuller Company has no control over the conditions of handling and use, the H.B. Fuller Company makes no warranty, express or implied, regarding the accuracy of the data or the results to be obtained from the use thereof. The information is supplied solely for your information and consideration, and the H.B. Fuller Company assumes no responsibility from use or reliance thereon. It is the responsibility of the user of H.B. Fuller Company products to comply with all applicable federal, state and local laws and regulations.