

MATERIAL SAFETY DATA SHEET

ThreeBond

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TB1701

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: TB1701

PRODUCT DESCRIPTION: Cyanoacrylate adhesive

DISTRIBUTOR

ThreeBond International, Inc.
6184 Schumacher Park Drive
West Chester, OH 45069

Product Stewardship: (513) 779-7300

24 HR. EMERGENCY TELEPHONE NUMBERS

CHEMTREC (Domestic North America) :(800) 424 - 9300




CHEMTREC (International) :(703) 527 - 3887

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS

Health	Physical
Acute toxicity (oral), Category 4 Acute toxicity (inhalation), Category 2 Skin corrosion/irritation, Category 2 Serious eye damage/Eye irritation, Category 2B Respiratory sensitization, Category 1 Specific target organ toxicity (after single exposure), Category 3	Flammable liquids, Category 4

GHS LABEL

WARNING H227: Combustible liquid H320: Causes eye irritation	 Exclamation mark
	WARNING H302: Harmful if swallowed H315: Causes skin irritation H335: May cause respiratory irritation
 Skull and crossbones	 Health hazard
DANGER H330: Fatal if inhaled	DANGER H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled
Precautionary statement(s) Prevention: P270: Do not eat, drink, or smoke when using this product. P233: Keep container tightly closed. P102: Keep out of reach of children.	

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE: Transparent colorless liquid

IMMEDIATE CONCERNS: May cause irritation to the eyes, skin, and respiratory tract.

POTENTIAL HEALTH EFFECTS

EYES: May cause eye irritation.

SKIN: May cause skin irritation.

SKIN ABSORPTION: May be harmful if absorbed through the skin.

INGESTION: May be harmful if swallowed. Ingestion is an unlikely route of entry in industrial use.

INHALATION: May be harmful if inhaled.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

ACUTE TOXICITY: No data as a product.

CHRONIC EFFECTS: No data as a product.

TARGET ORGAN STATEMENT: Respiratory tract.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS	EINECS
Methyl-2-cyanoacrylate	> 95	137-05-3	205-275-2
Hydroquinone	< 1	123-31-9	

4. FIRST AID MEASURES

EYES: Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Have eyes examined and tested by medical personnel.

SKIN: Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

INGESTION: Rinse mouth well with water. Never give an unconscious person anything to ingest. Do not induce vomiting unless directed to do so by medical personnel. Seek immediate medical attention.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.

5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD: 82°C (179.6°F)

AUTOIGNITION TEMPERATURE: > 200°C (392°F)

FLAMMABLE CLASS: Combustible

EXTINGUISHING MEDIA: Dry powder, alcohol-resistant foam, carbon dioxide gas, dry sand, and spray water.

HAZARDOUS COMBUSTION PRODUCTS: May produce poisonous and irritating gasses.

FIRE FIGHTING EQUIPMENT: As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Absorb with dry sand, soil, sawdust, cloth, etc., then place in a sealable container.

LARGE SPILL: Dike and prevent overflow. Guide to a safe place, then dispose properly.

ENVIRONMENTAL PRECAUTIONS

WATER SPILL: Do not allow product to flow into rivers or affect the environment.

GENERAL PROCEDURES: Extinguish all sources of ignition.

RELEASE NOTES: Keep spilled material from entering storm drains, sewers, or other environmental mediums.

SPECIAL PROTECTIVE EQUIPMENT: Wear appropriate personal protection equipment.

COMMENTS: Disposal of clean-up materials may be governmentally regulated. Observe all applicable local, state, and federal waste

management regulations.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Avoid contact with eyes, skin, and clothing. Use with adequate ventilation.

HANDLING: Wear appropriate personal protection equipment. Wash thoroughly after handling.

STORAGE: Protect from direct sunlight. Store the product at moderate temperature.

STORAGE TEMPERATURE: 5°C (41°F) Minimum to 10°C (50°F) Maximum

SHELF LIFE: 9 months

COMMENTS: Containers, even those that have been emptied, will retain product residue and vapors. Always obey hazard warnings and handle empty containers as if they were full. Do not mix this product with other cleaning agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)					
		EXPOSURE LIMITS			
		OSHA PEL		ACGIH TLV	
Chemical Name		ppm	mg/m ³	ppm	mg/m ³
Methyl-2-cyanoacrylate	TWA			0.2	1
Hydroquinone	TWA		2		1

ENGINEERING CONTROLS: Local exhaust ventilation may be necessary to control any air contaminants to within the TLV control parameters during the use of this product.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Chemical safety goggles.

SKIN: Gloves (impervious).

RESPIRATORY: In case of insufficient ventilation, wear suitable respiratory equipment.

PROTECTIVE CLOTHING: Chemically impervious clothing should be worn if the potential for skin contact exists.

WORK HYGIENIC PRACTICES: Wash hands before eating, smoking, or using restroom. Food or beverages should not be consumed anywhere this product is handled or stored. Wash thoroughly after handling.

OTHER USE PRECAUTIONS: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

ODOR: Irritating

COLOR: Transparent colorless

FLASHPOINT AND METHOD: 82°C (179.6°F)

SOLUBILITY IN WATER: Slight

SPECIFIC GRAVITY: 1.100

VISCOSITY #1: 3 mPa·s

10. STABILITY AND REACTIVITY

STABILITY: This product is stable, but polymerization may occur under conditions described below.

POLYMERIZATION: Polymerization may occur when product is exposed to high temperatures, high humidity, and direct sunlight.

CONDITIONS TO AVOID: High temperature, high humidity, and direct sunlight.

HAZARDOUS DECOMPOSITION PRODUCTS: Incineration may produce poisonous gasses (carbon monoxide, cyanide gas, etc.).

INCOMPATIBLE MATERIALS: Water and basic substances.

11. TOXICOLOGICAL INFORMATION

ACUTE

Chemical Name	ORAL LD ₅₀ (rat)	DERMAL LD ₅₀ (rabbit)
Methyl-2-cyanoacrylate	> 5000 Rat /mg/kg	> 2000
Hydroquinone	302 Rat /mg/kg	

NOTES: No data as a product.

CHRONIC: No data as a product.

CARCINOGENICITY

Chemical Name	IARC Status	Other
Hydroquinone	3	ACGIH: A3

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: No data as a product.

ECOTOXICOLOGICAL INFORMATION: No data as a product.

BIOACCUMULATION/ACCUMULATION: No data as a product.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Waste must be disposed of in accordance with federal, state, and local environmental control regulations. Consult your licensed waste contractor for detailed recommendations.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Combustible liquid, n.o.s.

TECHNICAL NAME: 2-Methyl cyanoacrylate

PRIMARY HAZARD CLASS/DIVISION: Comb liq

UN/NA NUMBER: 1993

PACKING GROUP: III

MARINE POLLUTANT #1: Hydroquinone

15. REGULATORY INFORMATION

UNITED STATES

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

Chemical Name	Wt.%	CERCLA RQ
Hydroquinone	< 1	100 lbs.

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA REGULATORY: All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

TSCA STATUS: All ingredients are in compliance with the TSCA.

STATES WITH SPECIAL REQUIREMENTS

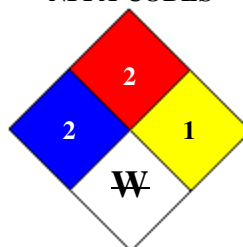
Chemical Name	Requirements
Methyl-2-cyanoacrylate	This product contains a component or components listed on the Massachusetts Right to Know list of hazardous substances. This product contains a component or components listed on the Pennsylvania Right to Know list of hazardous substances.
Hydroquinone	This product contains a component or components listed on the Massachusetts Right to Know list of hazardous substances. This product contains a component or components listed on the Michigan Critical Materials list. This product contains a component or components listed on the New Jersey Right to Know list of hazardous chemicals. This product contains a component or components listed on the Pennsylvania Right to Know list of hazardous substances.

16. OTHER INFORMATION

REVISION SUMMARY: This MSDS replaces the 09/16/2008 MSDS. Revised: **Section 1:** INFORMATION CONTACT. **Section 2:** ACUTE TOXICITY, CHRONIC EFFECTS, EMERGENCY OVERVIEW (PHYSICAL APPEARANCE), POTENTIAL HEALTH EFFECTS (SKIN, SKIN ABSORPTION, INHALATION, INGESTION), SENSITIZATION, SIGNS AND SYMPTOMS OF OVEREXPOSURE - SKIN ABSORPTION TARGET ORGAN STATEMENT. **Section 3:** Wt.%. **Section 4:** EYES, INGESTION, INHALATION, NOTES TO PHYSICIAN, SKIN. **Section 5:** AUTOIGNITION TEMPERATURE, EXTINGUISHING MEDIA, FIRE FIGHTING EQUIPMENT, FIRE FIGHTING PROCEDURES, FLAMMABLE CLASS, FLASHPOINT AND METHOD, GENERAL HAZARD, HAZARDOUS COMBUSTION PRODUCTS. **Section 6:** COMMENTS, GENERAL PROCEDURES, LARGE SPILL, SMALL SPILL, WATER SPILL. **Section 7:** COMMENTS, GENERAL PROCEDURES, HANDLING, SHELF LIFE, STORAGE, STORAGE TEMPERATURE. **Section 8:** PERSONAL PROTECTIVE EQUIPMENT - EYES AND FACE. **Section 9:** APPEARANCE, COLOR, ODOR, SOLUBILITY IN WATER, VISCOSITY #1. **Section 10:** CONDITIONS TO AVOID, HAZARDOUS DECOMPOSITION PRODUCTS, HAZARDOUS POLYMERIZATION, INCOMPATIBLE MATERIALS, POLYMERIZATION, STABILITY. **Section 11:** ACUTE, CHRONIC, NTP, SENSITIZATION, Notes. **Section 12:** COMMENTS, ECOTOXICOLOGICAL INFORMATION, ENVIRONMENTAL DATA, BIOACCUMULATION/ACCUMULATION. **Section 14:** AIR (ICAO/IATA) (TECHNICAL NAME, PRIMARY HAZARD CLASS/DIVISION, UN/NA NUMBER), DOT (DEPARTMENT OF TRANSPORTATION) (TECHNICAL NAME, UN/NA NUMBER, OTHER SHIPPING INFORMATION, MARINE POLLUTANT #1). **Section 15:** ACUTE, FIRE, REACTIVITY, 313 REPORTABLE INGREDIENTS, TSCA STATUS, CALIFORNIA PROPOSITION 65. **Section 16:** HMIS RATING (PERSONAL PROTECTION), NFPA CODES - REACTIVITY.

HMIS RATING

HEALTH	*	2
FLAMMABILITY		2
PHYSICAL HAZARD		1
PERSONAL PROTECTION		B

NFPA CODES

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