

# SAFETY DATA SHEET

Date Prepared : 03/05/2013  
SDS No : 0005-03-2013  
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Revision No : 4

## Threebond1739B

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Threebond1739B  
**PRODUCT DESCRIPTION:** Cyanoacrylate adhesive  
**PRODUCT CODE:** ThreeBond1739B

#### MANUFACTURER

Three Bond International, Inc.  
6184 Schumacher Park Drive  
West Chester, OH 45069  
**Emergency Phone:** (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:

Skin irritation, Category 2  
Eye Irritation, Category 2A

##### Physical:

Combustible liquid, Category 4

#### GHS LABEL



Exclamation  
mark

**SIGNAL WORD:** WARNING

#### HAZARD STATEMENTS

H315: Causes skin irritation.  
H319: Causes serious eye irritation.  
H227: Combustible liquid.

#### Precautionary statement(s)

##### Prevention:

P264: Wash hands thoroughly after handling.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

##### Response:

P302+P352: IF ON SKIN: Wash with plenty of soap and water  
P321: Specific treatment (see First Aid on this label).

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P332+P313: If skin irritation occurs: Get medical advice/attention.

P362+P364: Take off contaminated clothing and wash it before reuse.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists: Get medical advice/attention.

P370+P378: In case of fire: Use ... to extinguish.

### Storage:

P403: Store in a well-ventilated place.

### Disposal:

P501: Dispose of contents/container to appropriate waste facility according to local regulations

## EMERGENCY OVERVIEW

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

## POTENTIAL HEALTH EFFECTS

**EYES:** Vapor may cause eye irritation. Direct contact may cause mild irritation.

**SKIN:** Bonds skin instantly. May cause sensitization.

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

**INGESTION:** Not a likely route of entry. Substance may be harmful if swallowed.

**INHALATION:** May cause irritation to the nose, throat, and respiratory tract.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt. %	CAS
2-Ethyl cyanoacrylate	> 80	7085-85-0
Polymethyl methacrylate	1 - 10	9011-14-7
Sulfur dioxide	< 0.2	7446-09-5
Hydroquinone	< 0.1	123-31-9

## 4. FIRST AID MEASURES

**EYES:** Immediately flush eyes with plenty of water for at least 15 minutes. Do not attempt to pull apart bonded eyelid. Seek medical attention.

**SKIN:** Do not remove by force. While immersed in warm water gently rub affected skin then remove

**INGESTION:** Rinse mouth; Get medical attention

**INHALATION:** In case of poisoning, remove victim to fresh air, calm down, keep warm then get medical advice, attention

## 5. FIRE FIGHTING MEASURES

**FLAMMABLE CLASS:** Combustible liquid

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

**HAZARDOUS COMBUSTION PRODUCTS:** May produce poisonous and irritated gases upon a fire

**FIRE FIGHTING PROCEDURES:** Workers should wear appropriate protection (glasses, clothes, mask for poisonous gasses, etc.), then extinguishing should be performed up wind.

**FIRE FIGHTING EQUIPMENT:** As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear. Then extinguish should be performed up wind.

**HAZARDOUS DECOMPOSITION PRODUCTS:** May emit other toxic fumes under fire conditions.

**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

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

**SPECIAL PROTECTIVE EQUIPMENT:** Workers should wear appropriate protection (glasses, clothes, mask for poisonous gasses, etc.), then extinguishing should be performed up wind.

**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 handling or clean-up of cyanoacrylate adhesive with cellulose fibers, such as cloth gloves, rags, paper towels, or clothing. A reaction containing cellulose fibers can cause smoke and fumes.

**HANDLING:** To avoid fire, minimize ignition sources. Avoid contact with eyes, skin, and clothing. In case of insufficient ventilation, wear suitable respiratory equipment. May react in presence of moisture. May react or be incompatible with alkalis. Wash thoroughly after handling.

**STORAGE:** Contains moisture sensitive material. Store in a dry, cool, well-ventilated area. Keep away from sources of heat and ignition. Keep container tightly closed when not in use.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**EXPOSURE GUIDELINES**

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)					
		EXPOSURE LIMITS			
		OSHA PEL		ACGIH TLV	
Chemical Name		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
2-Ethyl cyanoacrylate	TWA	[1]	[1]	0.2 ppm	1.0
Hydroquinone	TWA		2 mg/m <sup>3</sup>	mg/m <sup>3</sup> (total dust)	1
<b>OSHA TABLE COMMENTS:</b>					
1. Not Established					

**ENGINEERING CONTROLS:** Adequate 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:** Safety glasses. Wear splash goggles if the potential for splashing or spraying exists.

**SKIN:** Gloves (impervious).

**RESPIRATORY:** In case of insufficient ventilation, wear NIOSH approved respiratory equipment when exposure limits are exceeded.

**PROTECTIVE CLOTHING:** Wear chemically impervious clothing, gloves, boots, aprons and gauntlets to prevent

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prolonged or repeated skin contact. Wear protective eyeglasses or chemical safety goggles, per OSHA eye- and face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

**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:** Acrid

**APPEARANCE:** Liquid (content)

**COLOR:** Colorless transparent

**FLASHPOINT AND METHOD:** 84°C

**SOLUBILITY IN WATER:** Insoluble

**VISCOSITY #1:** 12000 to 18300 mPa·s

### 10. STABILITY AND REACTIVITY

**HAZARDOUS POLYMERIZATION:** Yes, due to heat generated during polymerization.

**STABILITY:** May cause sudden polymerization

**CONDITIONS TO AVOID:** Heating, high humidity, direct sunlight.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon oxides. Nitrogen oxides

**INCOMPATIBLE MATERIALS:** Reactive with alkalis, oxidizing agents, and water.

### 11. TOXICOLOGICAL INFORMATION

#### ACUTE

Chemical Name	ORAL LD <sub>50</sub> (rat)	DERMAL LD <sub>50</sub> (rabbit)	INHALATION LC <sub>50</sub> (rat)
2-Ethyl cyanoacrylate	> 5000 rat (mg/kg)	> 2000 Rabbit/mg/kg	
Polymethyl methacrylate	> 2000 rat (mg/kg)	> 3000 Rabbit/mg/kg	> 2 mg/kg
Hydroquinone	302 rat (mg/kg)	5970 mg/kg mammal	

**NOTES:** No data as a product

**SKIN EFFECTS:** No data as a product

#### CARCINOGENICITY

Chemical Name	IARC Status
Sulfur dioxide	3
Hydroquinone	3

**12. ECOLOGICAL INFORMATION**

**ECOTOXICOLOGICAL INFORMATION:** No data

**Notes:** 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 (2-Ethyl cyanoacrylate)

**PRIMARY HAZARD CLASS/DIVISION:** Comb liq

**UN/NA NUMBER:** NA1993

**PACKING GROUP:** III

**AIR (ICAO/IATA)**

**SHIPPING NAME:** Aviation regulated liquid n.o.s. (2-Ethyl cyanoacrylate)

**UN/NA NUMBER:** UN3334

**PRIMARY HAZARD CLASS/DIVISION:** 9

**15. REGULATORY INFORMATION**

**UNITED STATES**

**CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)**

Chemical Name	Wt. %	CERCLA RQ
Hydroquinone	< 0.1	100

**STATES WITH SPECIAL REQUIREMENTS**

Chemical Name	Requirements
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.

**CALIFORNIA PROPOSITION 65:** WARNING: This product contains chemicals known to the state of California to cause cancer and birth defects or other reproductive harm. Sulfur dioxide

**16. OTHER INFORMATION**

**Date-Revised:** 04/10/2015

**REVISION SUMMARY:** This MSDS replaces the 09/16/2013 MSDS.

**HMIS RATING**

<b>HEALTH</b>	*	<b>2</b>
<b>FLAMMABILITY</b>		<b>2</b>
<b>PHYSICAL HAZARD</b>		<b>2</b>
<b>PERSONAL PROTECTION</b>		<b>C</b>

**NFPA CODES**



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