

# SAFETY DATA SHEET

Date Prepared : 03/05/2013  
SDS No : 0005-03-2013  
Date-Revised : 04/10/2015  
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

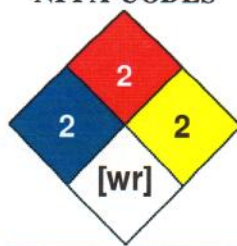
**REVISION SUMMARY:** This MSDS replaces the 09/16/2013 MSDS.



**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**



**MANUFACTURER DISCLAIMER:** To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

# SAFETY DATA SHEET

Date Prepared : 10/16/2012  
SDS No : 0016-10-2012D  
Date-Revised : 04/29/2015  
Revision No : 9

1796N32 (Accelerator #32)

## 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** 1796N32 (Accelerator #32)  
**PRODUCT DESCRIPTION:** Accelerator  
**PRODUCT CODE:** 1796N32

### MANUFACTURER

ThreeBond 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:

Eye Irritation, Category 2A  
Skin irritation, Category 2  
Specific target organ toxicity after single exposure: (Central Nervous system), Category 3

#### Physical:

Flammable Liquids, Category 2

### GHS LABEL



Flame



Exclamation  
mark

**SIGNAL WORD:** DANGER

### HAZARD STATEMENTS

H319: Causes serious eye irritation.  
H315: Causes skin irritation.  
H335: May cause respiratory irritation.  
H336: May cause drowsiness or dizziness.  
H225: Highly flammable liquid and vapour.

### Precautionary statement(s)

#### Prevention:

P264: Wash hands and/or skin thoroughly after handling.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P261: Avoid breathing dust/fume/gas/mist/vapours/spray.  
P271: Use only outdoors or in a well-ventilated area.

## 1796N32 (Accelerator #32)

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233: Keep container tightly closed.

P241: Use explosion-proof [electrical/ventilating/lighting/...] equipment.

P242: Use non-sparking tools.

P240: Ground and bond container and receiving equipment.

P243: Take action to prevent static discharges.

### Response:

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.

P302+P352: IF ON SKIN: Wash with plenty of water

P321: Specific treatment (see Response on this label).

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

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

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312: Call a POISON CENTER/Doctor/Medical Professional if you feel unwell.

P370+P378: In case of fire: Use foam, CO<sub>2</sub>, or dry sand to extinguish.

### Storage:

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

P405: Store locked up.

### Disposal:

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

## EMERGENCY OVERVIEW

**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

**INGESTION:** May be harmful if swallowed; Ingestion is an unlikely route of entry in industrial uses

**INHALATION:** May be harmful if inhaled.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt. %	CAS
Acetone	45 - 55	67-64-1
Ethyl acetate	35 - 45	141-78-6

## 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 (skin irritation or rash) occur. Get medical attention. 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.



**SIGNS AND SYMPTOMS OF OVEREXPOSURE****ACUTE TOXICITY:** No data as a product**CHRONIC EFFECTS:** No data as a product**5. FIRE FIGHTING MEASURES****FLAMMABLE CLASS:** Extremely flammable**GENERAL HAZARD:** Dangerous when exposed to heat, sparks, flame, or oxidants.**EXTINGUISHING MEDIA:** Dry chemical or carbon dioxide.**HAZARDOUS COMBUSTION PRODUCTS:** Carbon oxides.**EXPLOSION HAZARDS:** Welding or cutting torch on or near drum can cause the product to ignite explosively.**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.**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.**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. Take precaution against fire.**HANDLING:** Avoid contact with eyes and skin. Wear appropriate personal protection. Wash thoroughly after handling.**STORAGE:** Protect from direct sunlight. Store the product at moderate temperature. Store in original container at room temperature.**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>
Acetone	TWA	1000 ppm	2400	500 ppm	
	STEL			750	
Ethyl acetate	TWA	400 ppm	1400	400 ppm	1440

**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:** Chemical safety goggles

**SKIN:** Wear appropriate gloves (polyethylene, rubber, solvent impervious materials, etc.).

**RESPIRATORY:** Wear mask that protects against organic gas poisoning.

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

**COLOR:** Colorless to light yellow

**pH:** Acidic

**FLASHPOINT AND METHOD:** < (-3°F)

**SOLUBILITY IN WATER:** Easily soluble in cold water

## 10. STABILITY AND REACTIVITY

**STABILITY:** This product is stable at room temperature in closed containers under normal storage and handling conditions

**HAZARDOUS DECOMPOSITION PRODUCTS:** Complete combustion results in the formation of carbon dioxide and water vapor. Incomplete combustion can yield carbon monoxide.

**INCOMPATIBLE MATERIALS:** Oxidizing agents, acids, and alkalis.

## 11. TOXICOLOGICAL INFORMATION

### ACUTE

Chemical Name	ORAL LD <sub>50</sub> (rat)	DERMAL LD <sub>50</sub> (rabbit)	INHALATION LC <sub>50</sub> (rat)
Acetone	5800 rat (mg/kg)	7426 (rat) mg/kg	50100 Rat (mg/kg)
Ethyl acetate	5620 rat (mg/kg)	> 18000 Rabbit/mg/kg	> 45000 mg/m <sup>3</sup> (mouse)

**CHRONIC:** No data as a product

## 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL DATA:** No data as a product

**ECOTOXICOLOGICAL INFORMATION:** 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:** Flammable liquids, n.o.s. (Acetone, Ethyl Acetate)

**UN/NA NUMBER:** UN1993

**PACKING GROUP:** II

**AIR (ICAO/IATA)**

**SHIPPING NAME:** Flammable liquids, n.o.s. (Acetone, Ethyl Acetate)

**UN/NA NUMBER:** UN1993

**PACKING GROUP:** II

**NOTE:** Follows ICAO/IATA regulation

**15. REGULATORY INFORMATION****UNITED STATES****CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)**

Chemical Name	Wt. %	CERCLA RQ
Acetone	45 - 55	5,000
Ethyl acetate	35 - 45	5,000

**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
Acetone	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.
Ethyl acetate	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.

**16. OTHER INFORMATION**

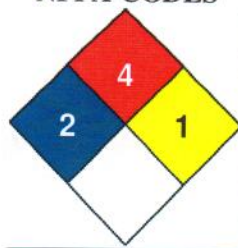
**Date-Revised:** 04/29/2015

**REVISION SUMMARY:** This MSDS replaces the 11/07/2012 MSDS. Revised: **Section 2:** .

**HMIS RATING**

<b>HEALTH</b>	*	<b>2</b>
<b>FLAMMABILITY</b>		<b>4</b>
<b>PHYSICAL HAZARD</b>		<b>1</b>
<b>PERSONAL PROTECTION</b>	<b>F</b>	

**NFPA CODES**



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