

Issue date 14-Nov-2019

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Revision Number 1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product name ThreeBond 1771E

Recommended use of the chemical and restrictions on use

Recommended use Adhesive, Sealant.

Details of the supplier of the safety data sheet

Company Name

ThreeBond International, Inc.

Supplier Address

6184 Schumacher Park Drive, West Chester, OH 45069 U.S.A

Emergency telephone number

24 Hour Emergency Phone Number Chemtrec 1-800-424-9300

Emergency Telephone +1-513-779-7300

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Skin sensitization	Category 1
Specific target organ toxicity (single exposure)	Category 3
Flammable liquids	Category 4

Label elements

Emergency Overview

Warning

Hazard statements

H315 - Causes skin irritation
 H317 - May cause an allergic skin reaction
 H319 - Causes serious eye irritation
 H335 - May cause respiratory irritation
 Combustible liquid



Appearance No information available **Physical state** Liquid **Odor** Irritating odor

Precautionary statements

P264 - Wash face, hands and any exposed skin thoroughly after handling
 P280 - Wear protective gloves
 P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
 P321 - Specific treatment (see supplemental first aid instructions on this label)
 P332 + P313 - If skin irritation occurs: Get medical advice/attention
 P362 - Take off contaminated clothing and wash before reuse
 P280 - Wear protective gloves/protective clothing/eye protection/face protection
 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
 P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
 P272 - Contaminated work clothing should not be allowed out of the workplace
 P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention
 P363 - Wash contaminated clothing before reuse
 P501 - Dispose of contents/ container to an approved waste disposal plant
 P271 - Use only outdoors or in a well-ventilated area
 P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing
 P312 - Call a POISON CENTER or doctor if you feel unwell
 P403 + P233 - Store in a well-ventilated place. Keep container tightly closed
 P405 - Store locked up
 P210 - Keep away from heat/sparks/open flames/hot surfaces. — No smoking
 P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish
 P403 + P235 - Store in a well-ventilated place. Keep cool
 P501 - Dispose of contents/container to industrial incineration plant

Hazards not otherwise classified (HNOC)

Other information

- May be harmful in contact with skin

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%	Remarks
Ethyl 2-cyanoacrylate	7085-85-0	90-<100	
Bis(2.4.6-trimethyl benzoyl)-phenylphosphine oxide	162881-26-7	0.1-<1	

4. FIRST AID MEASURES

Description of first aid measures

General advice

If symptoms persist, call a physician.

Eye contact

Repeatedly wash with water. See doctor. Do not rub eye, nor use organic solvents, remover. Immediately flush with plenty of water. After initial flushing, remove any contact

lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.

Skin contact In the case of skin irritation or allergic reactions see a physician. Soak skin in warm water. Gently remove material from skin.

Inhalation Remove to fresh air. Seek immediate medical attention/advice.

Ingestion Rinse mouth. Get medical attention.

Self-protection of the first aider Use personal protective equipment as required.

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use. Dry chemical. Carbon dioxide (CO₂). Water spray (fog). Alcohol resistant foam. Extinguishing powder. Sand.

Unsuitable extinguishing media Caution: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the chemical

Keep product and empty container away from heat and sources of ignition. May generate irritate, harmful gas.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

Protective equipment and precautions for firefighters

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

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Use personal protective equipment as required. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Pay attention to flashback. Take precautionary measures against static discharges.

Environmental precautions

Environmental precautions Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. See Section 12 for additional ecological information.

Methods and material for containment and cleaning up

Methods for containment Wear glove made from polyethylene. Wipe small amount of spill with cloth. Do not wipe large amount of spill at once. The spill could rapidly react and generate heat.

Methods for cleaning up Soak up with inert absorbent material. Dam up. Pick up and transfer to properly labeled containers. Take precautionary measures against static discharges.

Prevention of secondary hazards Keep ignition source away from spill.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Use with local exhaust ventilation. All equipment used when handling the product must be grounded. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Take equipment measures listed in Section 8. Wear protection gear.

Conditions for safe storage, including any incompatibilities

Storage conditions Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep containers tightly closed in a cool, well-ventilated place. Keep away from heat. Keep in properly labeled containers.

Incompatible materials Water. Bases.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethyl 2-cyanoacrylate 7085-85-0	STEL: 1 ppm TWA: 0.2 ppm	-	-

NIOSH IDLH *Immediately Dangerous to Life or Health*

Other information Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Appropriate engineering controls

Engineering controls Install local ventilation or seal source of substances. Install safety shower, hand wash, and eye wash station. Clearly indicate the location.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin and body protection Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

General hygiene considerations When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Liquid
Appearance	No information available
Odor	Irritating odor
Color	Transparent yellow
Odor threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	No information available	
Melting point/freezing point	No information available	
Boiling point / boiling range	No information available / °F	
Flash point	88 °C / 190 °F	No information available
Evaporation rate	No information available	
Flammability (solid, gas)	No information available	
Flammability limit in air		
Upper flammability limit:	No information available	
Lower flammability limit:	No information available	
Vapor pressure	No information available	
Vapor density	No information available	
Specific gravity	1.05	
Water solubility	Slightly soluble	No information available
Solubility in other solvents	No information available	
Partition coefficient	No information available	
Autoignition temperature	200 °C or above °C / 392 °F	
Decomposition temperature	No information available	
Dynamic viscosity	2 mPa·s	
Explosive properties	No information available	
Oxidizing properties	No information available	

10. STABILITY AND REACTIVITY**Reactivity**

No data available

Chemical stability

Rapid polymerization could occur.

Possibility of hazardous reactions

May cause rapid polymerization reaction by heat, high humidity, or direct sun light.

Conditions to avoid

Direct sunlight. High humidity. Heat. Heat, flames and sparks.

Incompatible materials

Water. Bases.

Hazardous decomposition products

May generate harmful gas by incineration.

11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure**

Product Information No data available

Inhalation	No data available.
Eye contact	No data available.
Skin contact	No data available.
Ingestion	No data available.

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Ethyl 2-cyanoacrylate 7085-85-0	> 5 mL/kg (Rat) > 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	< 21.1 mg/L (Rat) 1 h
Bis(2,4,6-trimethyl benzoyl)-phenylphosphine oxide 162881-26-7	> 2000 mg/kg (Rat)	> 2000 mg/kg (Rat)	-

Information on toxicological effects

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No information available.
Germ cell mutagenicity No information available.
Carcinogenicity This product contains one or more substances which are classified by IARC as carcinogenic to humans (Group I), probably carcinogenic to humans (Group 2A) or possibly carcinogenic to humans (Group 2B).
Reproductive toxicity No information available.
STOT - single exposure No information available.
STOT - repeated exposure No information available.
Aspiration hazard No information available.

Numerical measures of toxicity - Product Information

Unknown Acute Toxicity 0% of the mixture consists of ingredient(s) of unknown toxicity
The following values are calculated based on chapter 3.1 of the GHS document . mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging Dispose containers as same as residual of this product. Do not reuse container.

14. TRANSPORT INFORMATION

DOT

UN/ID No.	UN3334
Proper shipping name	Aviation regulated liquid, n.o.s.
Hazard class	9
Special provisions	A35, A189
Description	UN3334, Aviation regulated liquid, n.o.s. (Hydroquinone), 9
Emergency Response Guide Number	171

TDG

UN/ID No.	UN3334
Proper shipping name	Aviation regulated liquid, n.o.s.
Hazard class	9
Description	UN3334, Aviation regulated liquid, n.o.s. (Hydroquinone), 9

MEX

UN/ID No.	UN3334
Proper shipping name	Aviation regulated liquid, n.o.s.
Hazard class	9
Special provisions	106, 274, 276
Description	UN3334, Aviation regulated liquid, n.o.s. (Hydroquinone), 9

ICAO/IATA (air)

UN/ID No.	UN3334
Proper shipping name	Aviation regulated liquid, n.o.s.
Hazard class	9
Packing group	III
Special provisions	A27
Description	UN3334, Aviation regulated liquid, n.o.s. (Hydroquinone), 9, III

IATA

UN/ID No.	UN3334
Proper shipping name	Aviation regulated liquid, n.o.s.
Hazard class	9
Packing group	III
ERG code	9A
Special provisions	A27
Description	UN3334, Aviation regulated liquid, n.o.s. (Hydroquinone), 9, III

IMDG

UN/ID No.	UN3334
Proper shipping name	Aviation regulated liquid, n.o.s.
Hazard class	9
Special provisions	960
Description	UN3334, Aviation regulated liquid, n.o.s., 9

RID

UN/ID No.	UN3334
Proper shipping name	Aviation regulated liquid, n.o.s.

Hazard class 9
Classification code M11
Description UN3334, Aviation regulated liquid, n.o.s., 9

ADR

UN/ID No. UN3334
Proper shipping name Aviation regulated liquid, n.o.s.
Hazard class 9
Packing group III
Classification code M11
Description UN3334, Aviation regulated liquid, n.o.s., 9

ADN

UN Number UN3334
Proper shipping name Aviation regulated liquid, n.o.s.
Hazard class 9
Classification code M11
Description UN3334, Aviation regulated liquid, n.o.s., 9

15. REGULATORY INFORMATION

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute health hazard Yes
Chronic Health Hazard No
Fire hazard Yes
Sudden release of pressure hazard No
Reactive Hazard No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Ethyl 2-cyanoacrylate 7085-85-0	X	-	-

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION

<u>NFPA</u>	Health hazards 0	Flammability 2	Instability 0	Physical and Chemical Properties -
<u>HMIS</u>	Health hazards 0	Flammability 2	Physical hazards 0	Personal protection X

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Revision note

No information available

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet