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## SECTION 1: Identification

### Identification

Product form : Mixture  
Product name : ThreeBond 1742Z  
Physical state : Liquid

### Recommended use and restrictions on use

Use of the substance/mixture : Adhesives, binding agents  
Restrictions on use : None known

### Supplier

ThreeBond International, Inc.  
6184 Schumacher Park Drive  
West Chester, OH 45069  
T (513) 779-7300

### Emergency telephone number

Emergency number : CHEMTREC (Domestic North America): (800) 424-9300 (International): (703) 527-3887

## SECTION 2: Hazard(s) identification

### Classification of the substance or mixture

#### GHS US classification

Flammable liquids, Category 4	H227	Combustible liquid
Skin corrosion/irritation, Category 2	H315	Causes skin irritation.
Serious eye damage/eye irritation, Category 2A	H319	Causes serious eye irritation.
Carcinogenicity, Category 2	H351	Suspected of causing cancer.
Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation	H335	May cause respiratory irritation.

Full text of H-statements: see section 16

### GHS Label elements, including precautionary statements

#### GHS US labelling

Pictograms :



Signal word : Warning

Hazard statements : H227 - Combustible liquid  
H315 - Causes skin irritation.  
H319 - Causes serious eye irritation.  
H335 - May cause respiratory irritation.  
H351 - Suspected of causing cancer.

Precautionary statements : P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264 - Wash hands, forearms and face thoroughly after handling.

P271 - Use only outdoors or in a well-ventilated area.  
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
 P302+P352 - If on skin: Wash with plenty of water.  
 P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing.  
 P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P308+P313 - If exposed or concerned: Get medical advice/attention.  
 P312 - Call a poison center or doctor if you feel unwell.  
 P321 - Specific treatment (see supplemental first aid instruction on this label).  
 P332+P313 - If skin irritation occurs: Get medical advice/attention.  
 P337+P313 - If eye irritation persists: Get medical advice/attention.  
 P362+P364 - Take off contaminated clothing and wash it before reuse.  
 P370+P378 - In case of fire: Use media other than water to extinguish.  
 P403+P233 - Store in a well-ventilated place. Keep container tightly closed.  
 P403+P235 - Store in a well-ventilated place. Keep cool.  
 P405 - Store locked up.  
 P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

**Other hazards which do not result in classification**

No additional information available

**Unknown acute toxicity**

Not applicable

**SECTION 3: Composition/information on ingredients**

Name	Product identifier	%	GHS US classification
Ethyl cyanoacrylate	(CAS-No.) 7085-85-0	90 – 99	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
Butylated hydroxyanisole	(CAS-No.) 25013-16-5	0.1 – 0.5	Carc. 2, H351

Full text of hazard classes and H-statements : see section 16

**SECTION 4: First-aid measures****Description of first aid measures**

First-aid measures general : IF exposed or concerned: Get medical advice/attention.  
 First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell.  
 First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.  
 First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.  
 First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

**Most important symptoms and effects (acute and delayed)**

Symptoms/effects after inhalation : May cause respiratory irritation.  
 Symptoms/effects after skin contact : Irritation.  
 Symptoms/effects after eye contact : Eye irritation.

**Immediate medical attention and special treatment, if necessary**

Treat symptomatically.

**SECTION 5: Fire-fighting measures****Suitable (and unsuitable) extinguishing media**

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.  
 Unsuitable extinguishing media : Do not use a heavy water stream.

**Specific hazards arising from the chemical**

Fire hazard : Combustible liquid.

**Special protective equipment and precautions for fire-fighters**

Precautionary measures fire : Do not allow contact with water.  
 Firefighting instructions : Fight fire with normal precautions from a reasonable distance.  
 Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures

#### **For non-emergency personnel**

Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.

#### **For emergency responders**

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

### Environmental precautions

Avoid release to the environment.

### Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.

Other information : Dispose of materials or solid residues at an authorized site.

### Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### Precautions for safe handling

Precautions for safe handling : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.

Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

### Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool. Store locked up. Keep container tightly closed.

## SECTION 8: Exposure controls/personal protection

### Control parameters

Ethyl cyanoacrylate (7085-85-0)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA [ppm]	0.2 ppm (Cyanoacrylates)
ACGIH OEL STEL [ppm]	1 ppm (Cyanoacrylates)
ACGIH chemical category	dermal sensitizer

### Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

### Individual protection measures/Personal protective equipment

#### **Hand protection:**

Protective gloves

#### **Eye protection:**

Safety glasses

#### **Skin and body protection:**

Wear suitable protective clothing

#### **Respiratory protection:**

In case of insufficient ventilation, wear suitable respiratory equipment

### **Personal protective equipment symbol(s):**



## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Clear.
Colour	: Colourless
Odour	: Pungent
Odour threshold	: No data available
pH	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 86 °C
Relative evaporation rate (butylacetate=1)	: No data available
Flammability	: Not applicable.
Vapour pressure	: No data available
Relative vapour density at 20°C	: No data available
Relative density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
No data availableViscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive limits	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available

### Other information

No additional information available

## SECTION 10: Stability and reactivity

### Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### Chemical stability

Stable under normal conditions.

### Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

### Incompatible materials

Acids. Bases. Strong oxidizing agents.

### Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### Information on toxicological effects

Acute toxicity (oral)	: Not classified.
Acute toxicity (dermal)	: Not classified.

Acute toxicity (inhalation) : Not classified.

<b>Ethyl cyanoacrylate (7085-85-0)</b>	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 Inhalation - Rat	< 21.1 mg/l (Exposure time: 1 h)

<b>Butylated hydroxyanisole (25013-16-5)</b>	
LD50 oral rat	2 g/kg
LD50 dermal rat	> 2000 mg/kg
ATE US (oral)	2000 mg/kg bodyweight

Skin corrosion/irritation : Causes skin irritation.  
 Serious eye damage/irritation : Causes serious eye irritation.  
 Respiratory or skin sensitisation : Not classified.  
 Germ cell mutagenicity : Not classified.  
 Carcinogenicity : Suspected of causing cancer.

<b>Butylated hydroxyanisole (25013-16-5)</b>	
IARC group	2B - Possibly carcinogenic to humans
National Toxicity Program (NTP) Status	Reasonably anticipated to be Human Carcinogen
In OSHA Hazard Communication Carcinogen list	Yes

Reproductive toxicity : Not classified.

STOT-single exposure : May cause respiratory irritation.

<b>Ethyl cyanoacrylate (7085-85-0)</b>	
STOT-single exposure	May cause respiratory irritation.

STOT-repeated exposure : Not classified.

Aspiration hazard : Not classified.  
 Viscosity, kinematic : No data available

Symptoms/effects after inhalation : May cause respiratory irritation.  
 Symptoms/effects after skin contact : Irritation.  
 Symptoms/effects after eye contact : Eye irritation.

## SECTION 12: Ecological information

### Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

### Persistence and degradability

No additional information available

### Bioaccumulative potential

<b>Butylated hydroxyanisole (25013-16-5)</b>	
Partition coefficient n-octanol/water (Log Pow)	2.82 (at 25 °C)

### Mobility in soil

No additional information available

### Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

**SECTION 14: Transport information**

**Department of Transportation (DOT)**

In accordance with DOT

- Transport document description (DOT) : UN3334 Aviation regulated liquid, n.o.s. (2-ETHYL CYANOACRYLATE), 9
- UN-No.(DOT) : UN3334
- Proper Shipping Name (DOT) : Aviation regulated liquid, n.o.s.  
2-ETHYL CYANOACRYLATE
- Class (DOT) : 9 - Class 9 - Miscellaneous hazardous material 49 CFR 173.140
- Hazard labels (DOT) : 9 - Class 9 (Miscellaneous dangerous materials)



- DOT Packaging Non Bulk (49 CFR 173.xxx) : 204
- DOT Symbols : A - Material is regulated as a hazardous material only when transported by air,G - Identifies PSN requiring a technical name
- DOT Special Provisions (49 CFR 172.102) : A35 - This includes any material which is not covered by any of the other classes but which has an anesthetic, narcotic, noxious or other similar properties such that, in the event of spillage or leakage on an aircraft, extreme annoyance or discomfort could be caused to crew members so as to prevent the correct performance of assigned duties.  
A189 - Except where the defining criteria of another class or division are met, concentrations of formaldehyde solution: a. With less than 25 percent but not less than 10 percent formaldehyde, must be described as UN3334, Aviation regulated liquid, n.o.s; and b. With less than 10 percent formaldehyde, are not subject to this subchapter.
- DOT Packaging Exceptions (49 CFR 173.xxx) : 155
- DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 450 L
- DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 450 L
- DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
- Emergency Response Guide (ERG) Number : 171
- Other information : No supplementary information available.

**Transport by sea**

Not subject

**Air transport**

- Transport document description (IATA) : UN 3334 Aviation regulated liquid, n.o.s. (2-ETHYL CYANOACRYLATE), 9, III
- UN-No. (IATA) : 3334
- Proper Shipping Name (IATA) : Aviation regulated liquid, n.o.s.
- Class (IATA) : 9 - Miscellaneous Dangerous Substances and Articles
- Packing group (IATA) : III - Low danger

**SECTION 15: Regulatory information**

**US Federal regulations**

<b>ThreeBond 1742Z</b>	
SARA Section 311/312 Hazard Classes	Physical hazard - Flammable (gases, aerosols, liquids, or solids) Health hazard - Carcinogenicity Health hazard - Serious eye damage or eye irritation Health hazard - Skin corrosion or Irritation Health hazard - Specific target organ toxicity (single or repeated exposure)

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory


Ethyl cyanoacrylate	CAS-No. 7085-85-0	90 – 99%
Butylated hydroxyanisole	CAS-No. 25013-16-5	0.1 – 0.5%

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

## 15.2. International regulations

<b>Ethyl cyanoacrylate (7085-85-0)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Listed on the TCSI (Taiwan Chemical Substance Inventory) Listed on the NCI (Vietnam - National Chemical Inventory)
<b>Butylated hydroxyanisole (25013-16-5)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Listed on IARC (International Agency for Research on Cancer) Listed on the TCSI (Taiwan Chemical Substance Inventory) Listed on the NCI (Vietnam - National Chemical Inventory)

## US State regulations

 **WARNING:** This product can expose you to Butylated hydroxyanisole, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

Component	State or local regulations
Ethyl cyanoacrylate(7085-85-0)	U.S. - New Jersey - Right to Know Hazardous Substance List
Butylated hydroxyanisole(25013-16-5)	U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Massachusetts - Right To Know List

## SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date : 7/28/2023

Full text of H-statements:

H227	Combustible liquid
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.

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