

Issue date 16-Sep-2014

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Version 3

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

### Product identifier

**Product name** ThreeBond 1741

### Recommended use of the chemical and restrictions on use

**Recommended use** Adhesive, Sealant

### Details of the supplier of the safety data sheet

#### Manufacturer

ThreeBond Fine Chemical Co., Ltd.

#### Department in charge & Address

Production Engineering Division  
1-1 Oyama-cho, Midori-ku  
Sagamihara-shi, Kanagawa, Japan

### Emergency telephone number

+81-42-774-1333

## Section 2: HAZARDS IDENTIFICATION

### Classification of the substance or mixture

Flammable liquids	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2B
Skin sensitization	Category 1
Germ cell mutagenicity	Category 1B
Specific target organ toxicity (single exposure)	Category 3
<b>Category 3 Respiratory irritation.</b>	
Acute aquatic toxicity	Category 3
Chronic aquatic toxicity	Category 3

### Label elements



**Signal word**

**Danger**

### Hazard statements

H227 - Combustible liquid  
H315 - Causes skin irritation  
H317 - May cause an allergic skin reaction  
H320 - Causes eye irritation  
H335 - May cause respiratory irritation  
H340 - May cause genetic defects  
H412 - Harmful to aquatic life with long lasting effects

### Precautionary Statements - Prevention

- Obtain special instructions before use
- Do not handle until all safety precautions have been read and understood
- Use personal protective equipment as required
- Wash face, hands and any exposed skin thoroughly after handling
- Avoid breathing dust/fume/gas/mist/vapors/spray
- Contaminated work clothing should not be allowed out of the workplace

- Wear protective gloves
- Use only outdoors or in a well-ventilated area
- Avoid release to the environment.
- Keep away from heat/sparks/open flames/hot surfaces. — No smoking
- Keep cool

**Precautionary Statements - Response**

- IF exposed or concerned: Get medical advice/attention
- For first aid procedure, refer to this SDS.
- IF IN EYES: 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
- IF ON SKIN: Wash with plenty of soap and water
- Take off contaminated clothing and wash before reuse
- If skin irritation or rash occurs: Get medical advice/attention
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- In case of fire: Use CO<sub>2</sub>, dry chemical, or foam for extinction

**Precautionary Statements - Storage**

- Store locked up
- Store in a well-ventilated place. Keep container tightly closed

**Precautionary Statements - Disposal**

- Dispose of contents/container to an approved waste disposal plant

**Other hazards**

- May be harmful if swallowed

### Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

**Single substance or mixture**

Mixture

Effective June 1, 2016, regarding Japan's Industrial Safety and Health Law's "Notifiable Dangerous and Harmful", target substances will be subjected to risk assessment in accordance with Japan's Industrial Safety and Health Law's "Harmful Substances Whose Names Are to be Indicated on the Label."

Chemical name	Weight-%	ENCS	ISHL No.	CAS No.
Ethyl 2-cyanoacrylate	95<	(2)-2789	-	7085-85-0
Hydroquinone	<1	(3)-543	-	123-31-9

**Industrial Safety and Health Law**

Law Name	Chemical Name in Regulation	Ordinance Number
Notifiable Substances (Law Art.57-2, Enforcement Order Art.18-2 Item 1, Item 2, Attached Table No.9)	Ethyl 2-cyanoacrylate	205
Notifiable Substances (Law Art.57-2, Enforcement Order Art.18-2 Item 1, Item 2, Attached Table No.9)	Hydroquinone	461

### Section 4: FIRST AID MEASURES

**Inhalation**

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

**Skin contact**

In the case of skin irritation or allergic reactions see a physician.

**Eye contact**

Repeatedly wash with water. See doctor. Do not rub eye, nor use organic solvents, remover.

**Ingestion**

Rinse mouth. Get medical attention.

### Section 5: FIRE FIGHTING MEASURES

**Explosive properties**

No information available.

**Suitable extinguishing media** Water spray (fog) Carbon dioxide (CO<sub>2</sub>) Extinguishing powder Alcohol resistant foam Sand

**Specific hazards arising from the chemical** May generate irritate, harmful gas.

**Special extinguishing media** Wear protection gear and extinguish from windward.

## Section 6: ACCIDENTAL RELEASE MEASURES

**Personal precautions** Wear appropriate protection gear (Refer to Section 8) and avoid eye and skin contact.

**Environmental precautions** Keep out of waterways. Avoid release to the environment.

**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.

**Prevention of secondary hazards** Keep ignition source away from spill.

## Section 7: HANDLING AND STORAGE

### Handling

#### Precautions for safe handling

**Advice on safe handling** Take equipment measures listed in Section 8. Wear protection gear.

**Local and general ventilation** Take equipment measures listed in Section 8. Wear protection gear.

### Storage

**Storage conditions** Close lid. Avoid direct sun light and ignition source. Keep appropriate temperature.

**Material of vessels and packaging** Keep this product in original container. Do not put it back in the container.

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure guidelines

Chemical name	Japan	ISHL Working Environmental Evaluation Standards - Administrative Control Levels	ACGIH TLV
Ethyl 2-cyanoacrylate	-	-	TWA: 0.2 ppm
Hydroquinone	-	-	TWA: 1 mg/m <sup>3</sup>

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

### Personal protective equipment

- **Respiratory protection** In case of inadequate ventilation wear respiratory protection
- **Hand protection** Wear appropriate protection glove (Made from non-permeable material such as polyethylene, rubber)
- **Eye/face protection** Wear safety glasses with side shields (or goggles)
- **Skin and body protection** Wear protection apron, protection boots. Wear long sleeve cloth.

**Other information** Wash hands thoroughly after handling. When using do not eat, drink or smoke.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

**Physical state** Liquid  
**Odor** Irritating odor  
**Color** Transparent clear

<u>Property</u>	<u>Values</u>	<u>Remarks</u>
pH	No data available	
Melting point/freezing point	No data available	
Boiling point / boiling range	No data available	
Flash point	88 °C	
Evaporation rate	No data available	
Flammability (solid, gas)		
Flammability limit in air		
Upper flammability limit:	No data available	
Lower flammability limit:	No data available	
Specific gravity	1.06	
Water solubility	Slightly soluble	
Autoignition temperature	200 °C or above	
Decomposition temperature	No data available	
Dynamic viscosity	3 mPa·s	
Explosive properties	No information available	

## Section 10: STABILITY AND REACTIVITY

<b>Stability</b>	Rapid polymerization could occur.
<b>Possibility of hazardous reactions</b>	May cause rapid polymerization reaction by heat, high humidity, or direct sun light.
<b>Conditions to avoid</b>	Direct sunlight High humidity. Heat
<b>Incompatible materials</b>	Water. Bases.
<b>Hazardous decomposition products</b>	May generate harmful gas by incineration

## Section 11: TOXICOLOGICAL INFORMATION

### Acute toxicity

The following values are calculated based on chapter 3.1 of the GHS document  
**Inhalation LC50** No data available as this product.

**Numerical measures of toxicity** - Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Ethyl 2-cyanoacrylate	> 5 mL/kg ( Rat )	-	-
Hydroquinone	= 298 mg/kg ( Rat )	= 74800 mg/kg ( Rabbit )	-

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

<b>Skin corrosion/irritation</b>	No data available as this product.
<b>Serious eye damage/eye irritation</b>	No data available as this product.
<b>Sensitization</b>	No data available as this product.
<b>Germ cell mutagenicity</b>	No data available as this product.
<b>Carcinogenicity</b>	The table below indicates whether each agency has listed any ingredient as a carcinogen

Chemical name	Japan	IARC
Hydroquinone	2	Group 3

<b>Reproductive toxicity</b>	No data available as this product.
<b>STOT - single exposure</b>	No data available as this product.

**STOT - repeated exposure** No data available as this product.

**Aspiration hazard** No data available as this product.

## Section 12: ECOLOGICAL INFORMATION

**Ecotoxicity**  
**Acute aquatic hazard** No data available as this product.

**Chronic aquatic hazard** No data available as this product.

**Ecotoxicity** Harmful to aquatic life with long lasting effects

Chemical name	Algae/aquatic plants	Fish	Crustacea
Hydroquinone	13.5: 120 h <i>Desmodesmus subspicatus</i> mg/L EC50 0.335: 72 h <i>Pseudokirchneriella subcapitata</i> mg/L EC50	0.044: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 flow-through 0.044: 96 h <i>Pimephales promelas</i> mg/L LC50 flow-through 0.1 - 0.18: 96 h <i>Pimephales promelas</i> mg/L LC50 static 0.17: 96 h <i>Brachydanio rerio</i> mg/L LC50	0.29: 48 h <i>Daphnia magna</i> mg/L EC50

**Persistence and degradability** No data available as this product.

**Bioaccumulation**  
No data available as this product.  
Component Information

Chemical name	Partition coefficient
Hydroquinone	0.5

**Endocrine disruptor information** No data available as this product.

## Section 13: DISPOSAL CONSIDERATIONS

**Waste from residues / unused products** Dispose of in accordance with national, state and local regulations. Consult industrial waste management companies for waste. Do not release this product to natural environment nor reclaim.

**Contaminated packaging** Dispose containers as same as residual of this product.

## Section 14: TRANSPORT INFORMATION

**IMDG** Not regulated

**ICAO/IATA (air)**  
UN/ID No. UN3334  
Proper shipping name AVIATION REGULATED LIQUID, N.O.S.  
Hazard class 9  
Packing group III

**ADR** Not regulated

**Japanese regulations**  
**Marine Transportation Safety** Not applicable

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**Act**  
**Civil Aeronautics Act**

Miscellaneous Dangerous Substances and Articles (MITL Notification for Air Transportation of Explosives etc., Ordinance Art.194, Attached Table 1)

### Section 15: REGULATORY INFORMATION

**Fire protection law criteria**      Group 4 - Petroleums - 3rd Class(not Water solubility)

**Industrial Safety and Health Law**      Notifiable Substances (Law Art.57-2, Enforcement Order Art.18-2 Item 1, Item 2, Attached Table No.9)

**Other information**

Effective June 1, 2016, regarding Japan's Industrial Safety and Health Law's "Notifiable Dangerous and Harmful", target substances will be subjected to risk assessment in accordance with Japan's Industrial Safety and Health Law's "Harmful Substances Whose Names Are to be Indicated on the Label."

### Section 16: OTHER INFORMATION

**Issue date**      16-Sep-2014

**Other information**      Please contact to local sales offices for further information.

**Disclaimer**

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