

Issuing Date 15-Jun-2021  
Revision date 29-Nov-2023  
Revision Number 3

## 1. Identification

**Product Name** ThreeBond 1757

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

#### **Supplier**

ThreeBond Fine Chemical Co., Ltd.  
1-1 Oyama-cho, Midori-ku, Sagamihara-shi, Kanagawa 252-0146 Japan

#### **Emergency telephone number**

+81-42-703-7126 (Inquiries regarding SDS content)  
+81-42-670-5333 (Inquiries regarding the product or SDS claim)

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

**Recommended use** Adhesive, Sealant

**Restrictions on use** Please be sure to confirm in advance the appropriateness and safety of using the product for the relevant application. If the product is to be used for applications other than those recommended, please seek professional judgment. This product is for industrial use and its use for household and medical implants is prohibited.

## 2. Hazard(s) identification

### GHS Classification

Flammable liquids	Category 4
Acute toxicity - Oral	Classification not possible
Acute toxicity - Dermal	Classification not possible
Acute toxicity - Inhalation (Gases)	Classification not applicable
Acute toxicity - Inhalation (Vapors)	Classification not possible
Acute toxicity - Inhalation (Dusts/Mists)	Classification not possible
Skin corrosion/irritation	Classification not possible
Serious eye damage/eye irritation	Category 2A
Respiratory sensitization	Classification not possible
Skin sensitization	Classification not possible
Germ cell mutagenicity	Category 1B
Carcinogenicity	Classification not possible
Reproductive toxicity	Classification not possible
Effects on or via lactation	Classification not possible
Specific target organ toxicity (single exposure)	Category 3
Category 3 Target organ effects: Respiratory irritation.	
Specific target organ toxicity (repeated exposure)	Classification not possible
Aspiration hazard	Classification not possible
Acute aquatic toxicity	Category 3
Chronic aquatic toxicity	Category 3
Ozone	Classification not possible

### GHS label elements

**Signal word**

Danger

**Hazard statements**

H227 - Combustible liquid  
 H319 - Causes serious eye irritation  
 H340 - May cause genetic defects  
 H335 - May cause respiratory irritation  
 H412 - Harmful to aquatic life with long lasting effects

**Precautionary statements****Prevention**

- Do not handle until all safety precautions have been read and understood
- Wear protective gloves/protective clothing/eye protection/face protection
- Wash face, hands and any exposed skin thoroughly after handling
- Avoid breathing dust/fume/gas/mist/vapors/spray
- Use only outdoors or in a well-ventilated area
- Avoid release to the environment
- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
- Obtain special instructions or technical data sheet before use

**Response**

- IF exposed or concerned: Get medical advice/attention

**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

**Inhalation**

- IF INHALED: Remove person to fresh air and keep comfortable for breathing
- Call a POISON CENTER or doctor if you feel unwell

**Fire**

- In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish

**Storage**

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

**Disposal**

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

**Other hazards**

Causes mild skin irritation.

### 3. Composition/information on ingredients

**Pure substance/mixture**

Mixture

Chemical name	CAS No.	Weight-%	ENCS Number	ISHL No.
Hydroquinone	123-31-9	0.1-<1	(3)-543	(3)-543
Ethyl 2-cyanoacrylate	7085-85-0	60-<70	(2)-2789	(2)-2789
Thickener, Others	-	30-<40		

This product contains  $\geq 0.1$  -  $< 1.0\%$  of substance(s) that are classified for Skin sensitization Category 1/1B. This product contains  $\geq 0.1$  -  $< 1.0\%$  of substance (s) that are classified for Carcinogenicity Category 2.

**Pollutant Release and Transfer Register (PRTR)**

Not applicable

**Industrial Safety and Health Law**

ISHL Notifiable Substances

Article 57-2 of the ISHL, Article 18-2, Item 1, Item 2, Table 9 and Item 3, Table 3 of Order for Enforcement

Harmful substances requiring risk assessment

Article 57-3 of the ISHL

Chemical name	Ministerial Ordinance Name	CAS No.	Implementation date
Hydroquinone	Hydroquinone	123-31-9	
Ethyl 2-cyanoacrylate	Ethyl 2-cyanoacrylate	7085-85-0	

Harmful Substances Whose Names Are to be Indicated on the Label

Article 57 of ISHL, Article 18, Item 1, Item 2, Table 9 and Item 3, Table 3 of Order for Enforcement

Chemical name	Ministerial Ordinance Name	CAS No.	Implementation date
Hydroquinone	Hydroquinone	123-31-9	
Ethyl 2-cyanoacrylate	Ethyl 2-cyanoacrylate	7085-85-0	

**Poisonous and Deleterious Substances Control Law**

Not applicable

**Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. (CSCL)**

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed

Chemical name	CAS No.	Chemical Substances Control Law
Hydroquinone	123-31-9	Priority assessment chemical substance

**4. First-aid measures**

<b>General advice</b>	Show this safety data sheet to the doctor in attendance.
<b>In case of inhalation</b>	Remove to fresh air. IF exposed or concerned: Get medical advice/attention.
<b>In case of skin contact</b>	Soak skin in warm water. Gently remove material from skin. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
<b>In case of eye contact</b>	Repeatedly wash with water. See doctor. Do not rub eye, nor use organic solvents, remover. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
<b>In case of ingestion</b>	Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician.
<b>Most important symptoms/effects, acute and delayed</b>	May cause redness and tearing of the eyes. Burning sensation. Prolonged contact may cause redness and irritation.
<b>Self-protection of the first aider</b>	Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Wear personal protective clothing (see section 8). Avoid contact with skin, eyes or clothing.
<b>Note to physicians</b>	Treat symptomatically.

**5. Fire-fighting measures**

<b>Suitable Extinguishing Media</b>	Dry chemical. Carbon dioxide (CO <sub>2</sub> ). Water spray. Alcohol resistant foam.
<b>Unsuitable extinguishing media</b>	Do not scatter spilled material with high pressure water streams.
<b>Specific hazards arising from the chemical</b>	Keep product and empty container away from heat and sources of ignition. In the event of fire, cool container with water spray.
<b>Special Extinguishing Media</b>	Cool container with water spray.
<b>Special protective equipment and precautions for fire-fighters</b>	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.
<b>Other information</b>	CAUTION: Use of water spray when fighting fire may be inefficient.

## 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Take precautionary measures against static discharges. Do not touch or walk through spilled material. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing.
<b>For emergency responders</b>	Use personal protection recommended in Section 8.
<b>Environmental precautions</b>	Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so.
<b>Methods for containment</b>	Stop leak if you can do it without risk. Do not touch or walk through spilled material. Dike far ahead of liquid spill for later disposal.
<b>Methods for cleaning up</b>	Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.
<b>Prevention of secondary hazards</b>	Clean contaminated objects and areas thoroughly observing environmental regulations.
<b>Other information</b>	Refer to protective measures listed in Sections 7 and 8.

## 7. Handling and storage

### Handling

<b>Advice on safe handling</b>	Take equipment measures listed in Section 8. Wear protection gear. Use personal protection equipment. Do not breathe vapor or mist. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharges. Use with local exhaust ventilation. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. In case of insufficient ventilation, wear suitable respiratory equipment.
<b>Hygiene Measures</b>	Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.

### Storage

<b>Storage Conditions</b>	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Store locked up.
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## 8. Exposure controls/personal protection

### Exposure guidelines

Chemical name	Japan Society of Occupational Health	ISHL Working Environmental Evaluation Standards - Administrative Control Levels	ACGIH TLV	Japan ISHA Workplace exposure limit - 8 hours	Japan ISHA Workplace exposure limit - Short time
Hydroquinone 123-31-9	-	-	dermal sensitizer TWA: 1 mg/m <sup>3</sup>	1 mg/m <sup>3</sup>	-
Ethyl 2-cyanoacrylate 7085-85-0	-	-	dermal sensitizer;respiratory sensitizer STEL: 1 ppm TWA: 0.2 ppm	-	-

### Biological monitoring indicator

#### Engineering controls

Showers  
Eyewash stations  
Ventilation systems.

#### Environmental exposure 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. If workers are exposed to gases or vapors, consider wearing respiratory protective equipment (e.g., gas masks). When handling highly concentrated chemicals, consider wearing an air-supplied respirator. When selecting a respirator, the following points should be considered.  
-Do not use masks in areas where the oxygen concentration is less than 18%.  
-When using a gas mask in an environment where workers are exposed to dust, use an absorbent can with dustproof function.  
-Select a gas mask with performance and construction suitable for the work in accordance with the Japanese Industrial Standard (JIS T8152), and refer to the data provided in the instruction manual.

#### Hand protection

Wear suitable gloves. Consider wearing impervious protective gloves. When selecting protective gloves, the following points should be considered.  
-Referring to the impermeability class, etc. listed in the instruction manual, set a use time that allows for the work, and use protective gloves within that time range.

#### Eye/face protection

Tight sealing safety goggles.

#### Skin and body protection

Wear suitable protective clothing.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

Physical state	Liquid
Color	Transparent Light yellow

Odor	Irritating odor	
<b>Property</b>	<b>Values</b>	<b>Remarks • Method</b>
Melting point / freezing point	no data available	
Initial boiling point and boiling range		
Flammability	no data available	
Upper/lower flammability or explosive limits		
Upper flammability or explosive limits	no data available	
Lower flammability or explosive limits	no data available	
Flash point	87.5 °C	Seta closed cup
Evaporation rate	no data available	
Autoignition temperature	no data available	
Decomposition temperature	no data available	
pH	no data available	
Viscosity		
Kinematic viscosity	no data available	
Dynamic viscosity	1.2 Pa·s	
Water solubility	Slightly soluble	
Solubility(ies)	no data available	
Partition Coefficient (n-octanol/water)	no data available	
Vapor pressure	no data available	
Density and/or relative density		
Relative density	1.06	
Liquid Density	no data available	
Bulk density	no data available	
Relative vapor density	no data available	
Particle characteristics		
Particle Size	no data available	
Particle Size Distribution	no data available	
<b>Other information</b>		
Explosive properties	no data available	
Oxidizing properties	No data available	

## 10. Stability and reactivity

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.
Incompatible materials	Water. Bases.
Hazardous decomposition products	May generate harmful gas by incineration.

## 11. Toxicological information

### Acute toxicity

#### Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document

**Numerical measures of toxicity - Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Hydroquinone	= 298 mg/kg ( Rat )	= 74800 mg/kg ( Rabbit )	-
Ethyl 2-cyanoacrylate	> 5000 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	< 21.1 mg/L ( Rat ) 1 h

**Abbreviations and acronyms**

Rat: Rat

Rabbit: Rabbit

**Symptoms**

May cause redness and tearing of the eyes. Prolonged contact may cause redness and irritation.

**Product Information****Ingestion**

Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Inhalation**

Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.

**Skin contact**

Specific test data for the substance or mixture is not available. May cause irritation. Prolonged contact may cause redness and irritation. May be harmful in contact with skin. Causes mild skin irritation.

**Eye contact**

Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain.

**Skin corrosion/irritation**

Classification based on data available for ingredients. Causes mild skin irritation.

**Serious eye damage/eye irritation**

Classification based on data available for ingredients. Causes serious eye irritation.

**Germ cell mutagenicity**

Contains a known or suspected mutagen. Classification based on data available for ingredients. May cause genetic defects.

**Carcinogenicity**

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	Japan	IARC
Hydroquinone 123-31-9	2	Group 3

**Legend**

**IARC (International Agency for Research on Cancer)**

Group 2B - Possibly Carcinogenic to Humans

Group 3 - Not Classifiable as to Carcinogenicity in Humans

**STOT - single exposure**

May cause respiratory irritation.

## 12. Ecological information

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

Chemical name	Algae/aquatic plants	Fish	Crustacea
Hydroquinone	EC50: =0.335mg/L (72h, Pseudokirchneriella subcapitata)	LC50: =0.044mg/L (96h, Oncorhynchus mykiss) LC50: =0.044mg/L (96h, Pimephales promelas) LC50: 0.1 - 0.18mg/L (96h, Pimephales promelas) LC50: =0.17mg/L (96h, Brachydanio rerio)	EC50: =0.29mg/L (48h, Daphnia magna)

**Percentage for unknown hazards** 0.01401 % of the mixture consists of component(s) of unknown hazards to the aquatic environment.

**Persistence and degradability** No information available.

**Bioaccumulation**

### Component Information

Chemical name	Partition coefficient
Hydroquinone 123-31-9	0.5

**Mobility in soil** No information available.

**Hazardous to the ozone layer** Classification not possible. Based on available data, the classification criteria are not met.

**Other adverse effects** No information available.

## 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.

## 14. Transport information

**IMDG** Not regulated

**ADR** Not regulated

**IATA**

<b>UN number or ID number</b>	UN3334
<b>UN proper shipping name</b>	Aviation regulated liquid, n.o.s.
<b>Description</b>	UN3334, Aviation regulated liquid, n.o.s. 9, III
<b>Transport hazard class(es)</b>	9
<b>Packing group</b>	III
<b>Special Provisions</b>	A27

**Japan** Not regulated

## 15. Regulatory information

**National regulations****Pollutant Release and Transfer Register (PRTR)**

Not applicable

**Industrial Safety and Health Law****Prevention of hazards due to specified chemical substances**

Not applicable

**Ordinance on Prevention of Organic Solvent Poisoning**

Not applicable

**ISHL Notifiable Substances**

Article 57-2 of the ISHL, Article 18-2, Item 1, Item 2, Table 9 and Item 3, Table 3 of Order for Enforcement

**Harmful substances requiring risk assessment**

Article 57-3 of the ISHL

**Harmful Substances Whose Names Are to be Indicated on the Label**

Article 57 of ISHL, Article 18, Item 1, Item 2, Table 9 and Item 3, Table 3 of Order for Enforcement

**Poisonous and Deleterious Substances Control Law**

Not applicable

**Explosives Control Law**

No

**High Pressure Gas Safety Act**

Not applicable

**Fire Service Law:**

Flammable liquids, group 4, 3rd class petroleums, water-insoluble, hazard rank III, 2000 liters

**Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. (CSCL)**

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed

Chemical name	CAS No.	Chemical Substances Control Law
Hydroquinone	123-31-9	Priority assessment chemical substance

**Ship (Marine Transportation) Safety Act**

See section 14 for more information

**Civil Aeronautics Act**

See section 14 for more information

**Act on Port Regulation Law**

See section 14 for more information

## 16. Other information

**Issuing Date** 15-Jun-2021

**Revision date** 29-Nov-2023

**Key or legend to abbreviations and acronyms used in the safety data sheet**

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	Ceiling	Maximum limit value
*	Skin designation	+	Sensitizers

**Key literature references and sources for data used to compile the SDS**

JIS Z 7252:2019 Classification of chemicals based on "Globally Harmonized System of Classification and Labelling of Chemicals (GHS)"

JIS Z 7253:2019 Hazard communication of chemicals based on GHS-Labelling and Safety Data Sheet (SDS)

**Disclaimer**

This SDS complies with the requirements of JIS Z 7252:2019 and JIS Z 7253:2019 (Japan). 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.