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Version 1

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Product name ThreeBond 1757

Recommended use of the chemical and restrictions on use

Recommended use Adhesive, Sealant

Details of the supplier of the safety data sheet

Manufacture

Three Bond Singapore Pte Ltd.
Australia Branch
Factory: 2/38 Jellico dve Scoresby
3179 Melbourne Victoria
Australia
TEL : 61-3-9753-2522
FAX : 61-3-9753-2566

Emergency telephone number

TEL: 0417-350-027 (Mr.Wesley Mallett)

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
Category 3 Respiratory irritation, Narcotic effects.	
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
H336 - May cause drowsiness or dizziness

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 CO₂, 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

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Single substance or mixture

Mixture

Chemical name	Weight-%	ENCS	ISHL No.	CAS No.
Hydroquinone	0.1-1	(3)-543	(3)-543	123-31-9
Ethyl 2-cyanoacrylate	60-70	(2)-2789	(2)-2789	7085-85-0
Methyl methacrylate	0.1-1	(2)-1036	(2)-1036	80-62-6
Thickener, Others	30-40	-	-	-

Industrial Safety and Health Law

Law Name	Chemical Name in Regulation	Ordinance Number
Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57, Para.1, Enforcement Order Art.18 Item 1, Item 2, Attached Table No.9)	Ethyl 2-cyanoacrylate	205
Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57, Para.1, Enforcement Order Art.18 Item 1, Item 2, Attached Table No.9)	Hydroquinone	461
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
Notifiable Substances (Law Art.57-2, Enforcement Order Art.18-2 Item 1, Item 2, Attached Table No.9)	Methacrylic acid, methyl ester	557

Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc

Law Name	Chemical Name in Regulation	Ordinance Number
Priority Assessment Chemical Substances (Law Article 2, Para.5)	Hydroquinone	203

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 ₂) 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
Hydroquinone	-	-	TWA: 1 mg/m ³
Ethyl 2-cyanoacrylate	-	-	TWA: 0.2 ppm
Methyl methacrylate	TWA: 2 ppm TWA: 8.3 mg/m ³	-	STEL: 100 ppm TWA: 50 ppm

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 Light yellow

<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	1.2 Pa·s	
Explosive properties	No information available	

Section 10: STABILITY AND REACTIVITY

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

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
Hydroquinone	= 298 mg/kg (Rat)	= 74800 mg/kg (Rabbit)	-
Ethyl 2-cyanoacrylate	> 5 mL/kg (Rat) > 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	< 21.1 mg/L (Rat) 1 h
Methyl methacrylate	= 7872 mg/kg (Rat) 8420 - 10000 mg/kg (Rat)	5000 - 7500 mg/kg (Rabbit) > 5 g/kg (Rabbit)	= 7093 ppm (Rat) 4 h

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

Skin corrosion/irritation No data available as this product.

Serious eye damage/eye irritation No data available as this product.

Sensitization No data available as this product.

Germ cell mutagenicity No data available as this product.

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

Chemical name	Japan	
Hydroquinone	2	Group 3
Methyl methacrylate		Group 3

Reproductive toxicity No data available as this product.

STOT - single exposure 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	0.335: 72 h <i>Pseudokirchneriella subcapitata</i> mg/L EC50 13.5: 120 h <i>Desmodesmus subspicatus</i> mg/L EC50	0.1 - 0.18: 96 h <i>Pimephales promelas</i> mg/L LC50 static 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 0.17: 96 h <i>Brachydanio rerio</i> mg/L LC50	0.29: 48 h <i>Daphnia magna</i> mg/L EC50
Methyl methacrylate	170: 96 h <i>Pseudokirchneriella subcapitata</i> mg/L EC50	125.5 - 190.7: 96 h <i>Pimephales promelas</i> mg/L LC50 static 153.9 - 341.8: 96	69: 48 h <i>Daphnia magna</i> mg/L EC50

		h <i>Lepomis macrochirus</i> mg/L LC50 static 170 - 206: 96 h <i>Lepomis macrochirus</i> mg/L LC50 flow-through 243 - 275: 96 h <i>Pimephales</i> <i>promelas</i> mg/L LC50 flow-through 326.4 - 426.9: 96 h <i>Poecilia reticulata</i> mg/L LC50 static 79: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 flow-through 79: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 static	
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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
Methyl methacrylate	0.7

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

ADR Not regulated

Japanese regulations

Marine Transportation Safety Act Not applicable
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)

Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc Priority Assessment Chemical Substances (Law Article 2, Para.5)

Industrial Safety and Health Law Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57, Para.1, Enforcement Order Art.18 Item 1, Item 2, Attached Table No.9)
 Notifiable Substances (Law Art.57-2, Enforcement Order Art.18-2 Item 1, Item 2, Attached Table No.9)

Working Environment Evaluation Standards, Administrative Control Levels (Law Art.65-2, Para.1)
Dangerous Substances - Explosive Substance (Enforcement Order Attached Table 1 Item 1)
Dangerous Substances - Flammable Substance (Enforcement Order Attached Table 1 Item 4)

Section 16: OTHER INFORMATION

Issue date 03-Oct-2017

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

Disclaimer

Handle with care. The data in this document is not guaranteed. This information may be revised based on new findings or test results. This data sheet is authored in accordance with Japanese regulations.

Product Notes