ThreeBond

SAFETY DATA SHEET

Issue date 22-Jul-2016 **Revision Date** 09-Aug-2016 **Version** 2

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier
Product name ThreeBond 1533

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
Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Label elements

Signal word None

Hazard statements
Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Single substance or mixture

Mixture
Methanol; Generated during polymerization reaction.
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."

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Chemical name	Weight-%	ENCS	ISHL No.	CAS No.
Methyl alcohol	-	(2)-201	-	67-56-1
Silyl-terminated resin	50-60	-	-	-
Silica	<1	(1)-548	-	-
Organic tin compound	1-3	-	-	-
Inorganic filler	35-45	-	-	-

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)	Silica	312
Notifiable Substances (Law Art.57-2, Enforcement Order Art.18-2 Item 1, Item 2, Attached Table No.9)	Tin and its compounds	322
Notifiable Substances (Law Art.57-2, Enforcement Order Art.18-2 Item 1, Item 2, Attached Table No.9)	Methanol	560

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)	Methanol	90

Section 4: FIRST AID MEASURES

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

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. In the case of skin irritation or allergic reactions see a physician.

Eye contact IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Seek immediate medical attention/advice.

Ingestion Rinse mouth. Get medical attention.

Section 5: FIRE FIGHTING MEASURES

Suitable extinguishing media Water spray (fog) Carbon dioxide (CO2) 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 In case of small spill, absorb the spill in dry sand, soil or cloth and keep in closed container. In case of large spill, surround the spill by bank to prevent from leakage, and collect the spill after it is moved to safety place.

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
Methyl alcohol	TWA: 200 ppm TWA: 260 mg/m^3 Skin ISHL/ACL: 200 ppm	ISHL/ACL: 200 ppm	STEL: 250 ppm TWA: 200 ppm Skin

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
- O **Respiratory protection** In case of inadequate ventilation wear respiratory protection
- O **Hand protection** Wear appropriate protection glove (Made from non-permeable material such as polyethylene, rubber)
- O **Eye/face protection** Wear safety glasses with side shields (or goggles)
- O **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 Paste
Odor Distinct odor
Color White

Property	Values	Remarks
pH	No data available	
Melting point/freezing point	No data available	
Boiling point / boiling range	No data available	
Flash point	Not flammable	
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	1.39
Water solubility	Slightly soluble
Autoignition temperature	No data available
Decomposition temperature	No data available
Dynamic viscosity	100 Pa・s

Section 10: STABILITY AND REACTIVITY

Stability Stable under normal conditions.

Possibility of hazardous reactions React with moisture in air. Gradually release hazardous gas.

Conditions to avoid No information available

Incompatible materials No information available.

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
Methyl alcohol	= 6200 mg/kg (Rat)	= 15800 mg/kg (Rabbit)	= 22500 ppm (Rat) 8 h = 64000 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

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.

Chemical name	Algae/aquatic plants	Fish	Crustacea
Methyl alcohol	-	*28200: 96 h Pimephales promelas mg/L LC50 flow-through 19500 - 20700: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 100: 96 h Pimephales promelas mg/L LC50 static 13500 - 17600: 96 h Lepomis macrochirus mg/L LC50 flow-through 18 - 20: 96 h Oncorhynchus mykiss mL/L LC50 static*	-

Persistence and degradability No data available as this product.

Bioaccumulation

No data available as this product.

Component Information

Chemical name	Partition coefficient
Methyl alcohol	-0.77

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 managent 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) Not regulated

ADR Not regulated

Japanese regulations

Marine Transportation Safety Act Not applicable

Civil Aeronautics Act Not applicable

Section 15: REGULATORY INFORMATION

Fire protection law criteria Non-hazardous material

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	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	22-Jul-2016
Other information	Please contact to local sales offices for further information.

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