

**Issuing Date** 15-Jul-2021  
**Revision date** 20-Feb-2023  
**Revision Number** 2

## 1. Identification

**Product Name** ThreeBond 1530B

### 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

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	Classification not possible
Respiratory sensitization	Classification not possible
Skin sensitization	Classification not possible
Germ cell mutagenicity	Classification not possible
Carcinogenicity	Classification not possible
Reproductive toxicity	Classification not possible
Effects on or via lactation	Classification not possible
Specific target organ toxicity (single exposure)	Classification not possible
Specific target organ toxicity (repeated exposure)	Classification not possible
Aspiration hazard	Classification not possible
Acute aquatic toxicity	Category 2
Chronic aquatic toxicity	Category 2
Ozone	Classification not possible

### GHS label elements

**Hazard statements**

H411 - Toxic to aquatic life with long lasting effects

**Precautionary statements****Prevention**

- Avoid release to the environment

**Response**

- Collect spillage

**Storage**

- Not applicable

**Disposal**

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

**Other hazards**

May be harmful in contact with skin. Causes mild skin irritation.

### 3. Composition/information on ingredients

**Pure substance/mixture**

Mixture

**Chemical nature**

Methanol; Generated during polymerization reaction.

Chemical name	CAS No	Weight-%	ENCS Number	ISHL No
Carbon black	1333-86-4	0.1-<1	-	(5)-5222,(5)-3328
Methyl alcohol	67-56-1	-	(2)-201	(2)-201
Tris(2-ethylhexyl)phosphate	78-42-2	8.4	(2)-2000	(2)-2000
Organic tin compound	-	1-<5		
Silyl-terminated resin	-	45-<55		
Inorganic filler	-	30-<40		

This product contains  $\geq 1.0$  -  $< 10\%$  of substance (s) that are classified for Specific target organ toxicity (repeated exposure) Category 2.

**Until March 31, 2023 Pollutant Release and Transfer Register (PRTR)**

The amount of the relevant substance in certain cases referenced in article 4(i)(a) or 4(i)(b) of the Enforcement Order of the Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof (PRTR Act) is calculated based on the conversion factors shown (with safety factor = 1 in cases where conversion factor information is not available)

**Class I designated chemical substance**

Tin organic compounds, as Sn

Weight-%

0.56

Chemical name	Cabinet order name	Metal, CN, F, etc	Conversion coefficient	Content rate %	Category	Ordinance number	Control number
*	Phosphoric Acid, Tris(2-Ethylhexyl) Ester			8.4	Class I designated chemical substance	1-458	458

\* Refer to Cabinet order name

**After April 1, 2023 Pollutant Release and Transfer Register (PRTR)**

The amount of the relevant substance in certain cases referenced in article 4(i)(a) or 4(i)(b) of the Enforcement Order of the Act on

Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof (PRTR Act) is calculated based on the conversion factors shown (with safety factor = 1 in cases where conversion factor information is not available)

Class I designated chemical substance

Tin organic compounds, as Sn

Weight-%

2.5

Chemical name	Cabinet order name	Metal, CN, F, etc	Conversion coefficient	Content rate %	Category	Ordinance number	Control number
*	Phosphoric Acid, Tris(2-Ethylhexyl) Ester			8.4	Class I designated chemical substance	1-511	458

\* Refer to Cabinet order name

### 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

Chemical name	CAS No	Category	Ordinance number
Carbon black	1333-86-4	ISHL Notifiable Substances	Attached table 9-130
Organic tin compound	-	ISHL Notifiable Substances	Attached table 9-322

#### 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	CAS No	Category	Ordinance number
Organic tin compound	-	Harmful Substances Whose Names Are to be Indicated on the Label	Attached table 9-322

### Poisonous and Deleterious Substances Control Law

Not applicable

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

Not applicable

## 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 symptoms persist, call a physician. If breathing has stopped, give artificial respiration. Get medical attention immediately.
<b>In case of skin contact</b>	Wash skin with soap and water.
<b>In case of eye contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
<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. Get medical attention.
<b>Most important symptoms/effects, acute and delayed</b>	Coughing and/ or wheezing. Difficulty in breathing.
<b>Self-protection of the first aider</b>	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid breathing vapors or mists. Use personal protective equipment as required. See section 8 for more information.
<b>Note to physicians</b>	Treat symptomatically.

## 5. Fire-fighting measures

<b>Suitable Extinguishing Media</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>Unsuitable extinguishing media</b>	Do not scatter spilled material with high pressure water streams.
<b>Specific hazards arising from the chemical</b>	No information available.
<b>Flammable properties</b>	Containers may explode when heated.
<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>	Ensure adequate ventilation. Avoid breathing vapors or mists. Use personal protective equipment as required.
<b>For emergency responders</b>	Use personal protection recommended in Section 8.
<b>Environmental precautions</b>	See Section 12 for additional Ecological Information.
<b>Methods for containment</b>	Prevent further leakage or spillage if safe to do so.
<b>Methods for cleaning up</b>	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. Avoid breathing vapors or mists. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product.
<b>Hygiene Measures</b>	Do not eat, drink or smoke when using this product.

### Storage

<b>Storage Conditions</b>	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.
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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
Carbon black	TWA: 4 mg/m <sup>3</sup>	-	TWA: 3 mg/m <sup>3</sup> inhalable

1333-86-4	TWA: 1 mg/m <sup>3</sup>		particulate matter
Methyl alcohol 67-56-1	TWA: 200 ppm TWA: 260 mg/m <sup>3</sup> S*	200 ppm	STEL: 250 ppm TWA: 200 ppm S*

#### Biological occupational exposure limits

Chemical name	Japan Society of Occupational Health	ACGIH
Methyl alcohol 67-56-1	20 mg/L - urine (Methanol) - end of shift	15 mg/L - urine (Methanol) - end of shift

#### Engineering controls

Showers  
Eyewash stations  
Ventilation systems.

#### Environmental exposure controls

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

#### 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.

## 9. Physical and chemical properties

#### Information on basic physical and chemical properties

Physical state	Liquid
Color	Black
Odor	Distinct odor

Property	Values	Remarks • Method
Melting point / freezing point	no data available	
Initial boiling point and boiling range	Not available	
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	Not flammable	
Evaporation rate	no data available	
Autoignition temperature	no data available	
Decomposition temperature	no data available	
pH	no data available	
Viscosity		
Kinematic viscosity		
Dynamic viscosity	120 Pa · s	
Water solubility	Slightly soluble	
Solubility(ies)	no data available	
Partition Coefficient (n-octanol/water)	no data available	
Vapor pressure	no data available	

<b>Density and/or relative density</b>	
Relative density	1.31
Liquid Density	no data available
Bulk density	no data available
Relative vapor density	no data available
<b>Particle characteristics</b>	
Particle Size	no data available
Particle Size Distribution	no data available

#### Other information

<b>Explosive properties</b>	no data available
<b>Oxidizing properties</b>	no data available

## 10. Stability and reactivity

<b>Chemical stability</b>	Stable under normal conditions.
<b>Possibility of hazardous reactions</b>	React with moisture in air. Gradually release hazardous gas.
<b>Conditions to avoid</b>	No information available.
<b>Incompatible materials</b>	No information available.
<b>Hazardous decomposition products</b>	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

<b>ATEmix (oral)</b>	7,936.10 mg/kg
<b>ATEmix (dermal)</b>	2,590.90 mg/kg
<b>ATEmix (inhalation-vapor)</b>	21.80 mg/l

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Carbon black	> 15400 mg/kg ( Rat )	-	> 4.6 mg/m <sup>3</sup> ( Rat ) 4 h
Methyl alcohol	= 6200 mg/kg ( Rat )	= 15840 mg/kg ( Rabbit )	= 22500 ppm ( Rat ) 8 h
Tris(2-ethylhexyl)phosphate	= 37 g/kg ( Rat )	> 20000 mg/kg ( Rabbit )	> 447 mg/m <sup>3</sup> ( Rat ) 4 h

Abbreviations and acronyms

Rat: Rat

Rabbit: Rabbit

<b>Symptoms</b>	Coughing and/ or wheezing.
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#### Product Information

<b>Ingestion</b>	Specific test data for the substance or mixture is not available.
<b>Inhalation</b>	Specific test data for the substance or mixture is not available. Harmful by inhalation. (based on components).
<b>Skin contact</b>	May be harmful in contact with skin. Causes mild skin irritation.

<b>Eye contact</b>	Specific test data for the substance or mixture is not available.
<b>Skin corrosion/irritation</b>	Based on available data, the classification criteria are not met. Classification not possible.
<b>Serious eye damage/eye irritation</b>	Based on available data, the classification criteria are not met. Classification not possible.
<b>Respiratory or skin sensitization</b>	Classification not possible.
<b>Germ cell mutagenicity</b>	Based on available data, the classification criteria are not met. Classification not possible.
<b>Carcinogenicity</b>	The hazardous substance(s) which is (are) any of the following substances and listed on section 3 is (are) embedded in the product and not available as respirable dusts. When used as intended or as supplied, the product will not pose hazards of the hazardous substance(s). Silica, Quartz, Carbon black, Titanium oxide, Crystalline silica. Based on available data, the classification criteria are not met. Classification not possible.

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

Chemical name	Japan	IARC
Carbon black 1333-86-4	2	Group 2B

**Legend**

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

Group 2B - Possibly Carcinogenic to Humans

Group 3 - Not Classifiable as to Carcinogenicity in Humans

<b>Reproductive toxicity</b>	Based on available data, the classification criteria are not met. Classification not possible.
<b>STOT - single exposure</b>	Based on available data, the classification criteria are not met. Classification not possible.
<b>STOT - repeated exposure</b>	The hazardous substance(s) which is (are) any of the following substances and listed on section 3 is (are) embedded in the product and not available as respirable dusts. When used as intended or as supplied, the product will not pose hazards of the hazardous substance(s). Silica, Quartz, Carbon black, Crystalline silica. Based on available data, the classification criteria are not met. Classification not possible.
<b>Aspiration hazard</b>	Based on available data, the classification criteria are not met. Classification not possible.

## 12. Ecological information

<b>Ecotoxicity</b>	Toxic to aquatic life with long lasting effects.
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Chemical name	Algae/aquatic plants	Fish	Crustacea
Methyl alcohol	-	LC50: =28200mg/L (96h, Pimephales promelas) LC50: >100mg/L (96h, Pimephales promelas)	-

		LC50: 19500 - 20700mg/L (96h, Oncorhynchus mykiss) LC50: 18 - 20mL/L (96h, Oncorhynchus mykiss) LC50: 13500 - 17600mg/L (96h, Lepomis macrochirus)	
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**Percentage for unknown hazards**

0 % 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
Methyl alcohol 67-56-1	-0.77
Tris(2-ethylhexyl)phosphate 78-42-2	6.26

**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**

UN number or ID number UN3082  
UN proper shipping name Environmentally hazardous substance, liquid, n.o.s.  
Description UN3082, Environmentally hazardous substance, liquid, n.o.s., 9, III, Marine pollutant  
Transport hazard class(es) 9  
Packing group III  
Marine pollutant P  
EmS-No F-A, S-F  
Special Provisions 274, 335, 969

**ADR**

UN number or ID number 3082  
UN proper shipping name Environmentally hazardous substance, liquid, n.o.s.  
Description 3082, Environmentally hazardous substance, liquid, n.o.s., 9, III, (-)  
Transport hazard class(es) 9  
Packing group III  
ERG Code 9L  
Special Provisions 274, 335, 601, 375

**IATA**

UN number or ID number UN3082  
UN proper shipping name Environmentally hazardous substance, liquid, n.o.s.

<b>Description</b>	UN3082, Environmentally hazardous substance, liquid, n.o.s., 9, III
<b>Transport hazard class(es)</b>	9
<b>Packing group</b>	III
<b>Special Provisions</b>	A97, A158, A197

**Japan**

<b>UN number or ID number</b>	UN3082
<b>UN proper shipping name</b>	Environmentally hazardous substance, liquid, n.o.s.
<b>Description</b>	UN3082, Environmentally hazardous substance, liquid, n.o.s., 9, III
<b>Transport hazard class(es)</b>	9
<b>Packing group</b>	III
<b>Special Provisions</b>	274, 335

## 15. Regulatory information

**National regulations****Until March 31, 2023 Pollutant Release and Transfer Register (PRTR)**

Applies See section 3 for more information

**After April 1, 2023 Pollutant Release and Transfer Register (PRTR)**

Applies See section 3 for more information

**Industrial Safety and Health Law****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

**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

**Poisonous and Deleterious Substances Control Law**

Not applicable

**Explosives Control Law**

Not applicable

**High Pressure Gas Safety Act**

Not applicable

**Fire Service Law:**

Non-hazardous material

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

Not applicable

**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

<b>Issuing Date</b>	15-Jul-2021
<b>Revision date</b>	20-Feb-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-Labeling and Safety Data Sheet (SDS).

**Disclaimer**

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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.