

**Issuing Date** 01-Jun-2021  
**Revision date** 27-Oct-2023  
**Revision Number** 4

## 1. Identification

**Product Name** ThreeBond 1530C

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

#### **Supplier**

ThreeBond Fine Chemical Co., Ltd.  
1-1 Oyama-cho, Midori-ku, Sagami-hara-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 3
Chronic aquatic toxicity	Category 3
Ozone	Classification not possible

### GHS label elements

**Signal word** None

**Hazard statements**

H412 - Harmful to aquatic life with long lasting effects

**Precautionary statements****Prevention**

- Avoid release to the environment

**Response**

- Not applicable

**Storage**

- Not applicable

**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 nature**

Methanol; Generated during polymerization reaction.

Chemical name	CAS No.	Weight-%	ENCS Number	ISHL No.
Quartz	14808-60-7	0.1-<1	(1)-548	(1)-548
Tris(2-ethylhexyl)phosphate	78-42-2	1.7	(2)-2000	(2)-2000
Silyl-terminated resin	-	50-<60		
Noncrystalline silica	-	35-<45		
Organic tin compound	-	1-<5		
Tin	-	0.1-<1		
Methyl alcohol	67-56-1	-	(2)-201	(2)-201

**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)

Chemical name	Cabinet order name	Metal, CN, F, etc.	Conversion coefficient	Category	Ordinance number	Control number
*	Phosphoric Acid, Tris(2-Ethylhexyl) Ester			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

**Harmful substances requiring risk assessment**

Article 57-3 of the ISHL

Chemical name	Ministerial Ordinance Name	CAS No.	Implementation date
Quartz	Crystalline silica	14808-60-7	
Organic tin compound	Tin and its compounds	-	

**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
Quartz	Crystalline silica	14808-60-7	
Organic tin compound	Tin and its compounds	-	

**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>In case of inhalation</b>	Remove to fresh air.
<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>	Clean mouth with water and drink afterwards plenty of water.
<b>Most important symptoms/effects, acute and delayed</b>	Prolonged contact may cause redness and irritation.
<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>	Combustible material: may burn but does not ignite readily. Contact with metals may evolve flammable hydrogen gas. 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.
<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.

**Methods for cleaning up** Pick up and transfer to properly labeled containers.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

## 7. Handling and storage

### Handling

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

### Storage

**Storage Conditions** Refer to technical data sheet or material agreement and other documents for storage temperature range.

## 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
Quartz 14808-60-7	TWA: 0.03 mg/m <sup>3</sup>	-	TWA: 0.025 mg/m <sup>3</sup> respirable 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 monitoring indicator

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 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.

<b>Hand protection</b>	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. Wear suitable gloves.
<b>Eye/face protection</b>	Wear safety glasses with side shields (or goggles).
<b>Skin and body protection</b>	Wear suitable protective clothing.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

<b>Physical state</b>	Liquid	
<b>Color</b>	Translucent	
<b>Odor</b>	Distinct odor	
<b>Property</b>	<b>Values</b>	<b>Remarks • Method</b>
<b>Melting point / freezing point</b>	no data available	
<b>Initial boiling point and boiling range</b>		
<b>Flammability</b>	no data available	
<b>Upper/lower flammability or explosive limits</b>		
Upper flammability or explosive limits	no data available	
Lower flammability or explosive limits	no data available	
<b>Flash point</b>	245 °C	Cleveland open cup
<b>Evaporation rate</b>	no data available	
<b>Autoignition temperature</b>	no data available	
<b>Decomposition temperature</b>	no data available	
<b>pH</b>	no data available	
<b>Viscosity</b>		
Kinematic viscosity	no data available	
Dynamic viscosity	100 Pa·s	
<b>Water solubility</b>	Slightly soluble	
<b>Solubility(ies)</b>	no data available	
<b>Partition Coefficient (n-octanol/water)</b>	no data available	
<b>Vapor pressure</b>	no data available	
<b>Density and/or relative density</b>		
Relative density	1.31	
Liquid Density	no data available	
Bulk density	no data available	
<b>Relative vapor density</b>	no data available	
<b>Particle characteristics</b>		
Particle Size	no data available	
Particle Size Distribution	no data available	
<b>Other information</b>		
<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 (dermal)</b>	30,430.90 mg/kg
<b>ATEmix (inhalation-dust/mist)</b>	0.738 mg/l

#### Unknown acute toxicity

#### Numerical measures of toxicity - Component Information

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

#### Abbreviations and acronyms

*Rat: Rat*

*Rabbit: Rabbit*

<b>Symptoms</b>	Prolonged contact may cause redness and irritation.
-----------------	---

#### 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.
<b>Skin contact</b>	Causes mild skin irritation. Specific test data for the substance or mixture is not available.
<b>Eye contact</b>	Specific test data for the substance or mixture is not available.
<b>Skin corrosion/irritation</b>	Classification based on data available for ingredients. Causes mild skin irritation.

<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.
------------------------	--

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

Chemical name	Japan	IARC
Quartz 14808-60-7	1A	Group 1

#### Legend

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

Group 1 - Carcinogenic to Humans

#### STOT - repeated exposure

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.

## 12. Ecological information

#### Ecotoxicity

Harmful to aquatic life with long lasting effects.

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)	-

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

#### 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** Not regulated

**Japan** Not regulated

### 15. Regulatory information

#### National regulations

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

Applies See section 3 for more information

#### **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

##### **Carcinogenic substances**

Chemical substances specified by the Minister of Health, Labor and Welfare based on the provisions of Article 577-2, Paragraph 3 of the Ordinance on Industrial Safety and Health

Chemical name	CAS No.
Quartz	14808-60-7

#### **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, 4th class petroleums, hazard rank III, 6000 liters

#### **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****Issuing Date** 01-Jun-2021**Revision date** 27-Oct-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.