

Issue date 09-Sep-2021

Revision Date 18-Mar-2022

Revision Number 2

## 1. Identification

**Product Name** ThreeBond 1101

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

**Recommended use** Adhesive, Sealant

**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)

## 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	No effects on or via lactation
Specific target organ toxicity (single exposure)	Category 1
Category 1 Respiratory system.	
Specific target organ toxicity (repeated exposure)	Category 1
Category 1 Respiratory system.	
Aspiration hazard	Classification not possible
Acute aquatic toxicity	Classification not possible
Chronic aquatic toxicity	Classification not possible
Ozone	Classification not possible

**GHS label elements**



**Signal word** Danger

**Hazard statements**

H370 - Causes damage to organs

H372 - Causes damage to organs through prolonged or repeated exposure

H370 - Causes damage to the following organs: Respiratory system.

H372 - Causes damage to the following organs through prolonged or repeated exposure: Respiratory system.

#### Precautionary statements

##### Prevention

Do not breathe dust/fume/gas/mist/vapors/spray.

Wash face, hands and any exposed skin thoroughly after handling.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

##### Response

IF exposed or concerned: Call a POISON CENTER or doctor.

Get medical advice/attention if you feel unwell.

Specific treatment (see section 4 on this SDS).

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER or doctor if you feel unwell.

##### Storage

Store locked up.

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

##### Disposal

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

#### Other hazards

No information available.

### 3. Composition/information on ingredients

#### Pure substance/mixture

Mixture

Chemical name	CAS No	Weight-%	ENCS Number	ISHL No
Iron oxide (Fe <sub>2</sub> O <sub>3</sub> )	1309-37-1	1-<5	(1)-357,(5)-5188	(5)-5188,(1)-357
Vegetable oil, Inorganic filler, Synthetic resin	-	90-<99	-	-

This product contains  $\geq 0.1$  -  $< 3.0\%$  of substance (s) that are classified for Reproductive toxicity Category 2.

#### Pollutant Release and Transfer Registry (PRTR)

Not applicable

#### Industrial Safety and Health Law

##### ISHL Notifiable Substances

ISHL Notifiable Substances - information (safety data sheet) to be supplied; Industrial Safety and Health Law enforcement order Table 9 (related to Industrial Safety and Health Law article 57-2 and ISHL Ordinance Article 34-2-4)

Chemical name	CAS No	Category	Ordinance number
Iron oxide (Fe <sub>2</sub> O <sub>3</sub> )	1309-37-1	ISHL Notifiable Substances	192

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

Harmful Substances - names to be indicated on the label; Industrial Safety and Health Law enforcement order Table 9 (related to Industrial Safety and Health Law article 57 and ISHL Ordinance Article 33)

Chemical name	CAS No	Category	Ordinance number
Iron oxide (Fe <sub>2</sub> O <sub>3</sub> )	1309-37-1	Harmful Substances Whose Names Are to be Indicated on the Label	192

#### 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 exposed or concerned: Get medical advice/attention.
<b>In case of skin contact</b>	Wash off immediately with plenty of water for at least 15 minutes. If symptoms persist, call a physician.
<b>In case of eye contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call 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. Call a physician.
<b>Most important symptoms/effects, acute and delayed</b>	No information available.
<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>Special extinguishing media</b> Large Fire	Cool container with water spray. CAUTION: Use of water spray when fighting fire may be inefficient.
<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.

#### 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas.
<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

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

### Storage

**Storage Conditions** Store locked up.

## 8. Exposure controls/personal protection

**Engineering controls** Showers  
Eyewash stations  
Ventilation systems.

### Exposure guidelines

Chemical name	Japan Society of Occupational Health	ISHL Working Environmental Evaluation Standards - Administrative Control Levels	ACGIH TLV
Iron oxide (Fe <sub>2</sub> O <sub>3</sub> ) 1309-37-1	TWA: 1 mg/m <sup>3</sup> TWA: 4 mg/m <sup>3</sup>	-	TWA: 5 mg/m <sup>3</sup> respirable particulate matter

**Biological occupational exposure limits** Not applicable

**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.

**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** Reddish brown  
**Odor** Slight odor

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>Melting point / freezing point</b>	no data available	
<b>Boiling point / boiling range</b>	no data available	
<b>Flammability</b>	no data available	
<b>Upper/lower flammability or explosive limits</b>	no data available	
<b>Upper flammability or explosive</b>		

limits		
Lower flammability or explosive limits		
Flash point	198 °C	Seta closed cup
Autoignition temperature	no data available	
Decomposition temperature	no data available	
pH	no data available	
Kinematic viscosity	no data available	
Dynamic viscosity	1068 Pa •s	
Water solubility	Insoluble in water	
Solubility(ies)	no data available	
Partition Coefficient (n-octanol/water)	no data available	
Vapor pressure	no data available	
Relative vapor density	no data available	
Relative density	1.56	
Particle characteristics		
Particle Size	no data available	
Particle Size Distribution	no data available	

## 10. Stability and reactivity

Stability	Stable under normal conditions.
Possibility of hazardous reactions	No hazardous reaction could occur under normal condition.
Conditions to avoid	Extreme heat, Direct sunlight.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products.	May generate harmful gas by incineration.

## 11. Toxicological information

**Acute toxicity**  
Classification not possible.

### Numerical measures of toxicity - Product Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Iron oxide (Fe2O3)	> 10000 mg/kg ( Rat )	-	-

*Abbreviations and acronyms*

*Rat: Rat*

*Rabbit: Rabbit*

Symptoms	No information available.
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### Product Information

Ingestion	Specific test data for the substance or mixture is not available.
Inhalation	Specific test data for the substance or mixture is not available.
Skin contact	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>	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>	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
Iron oxide (Fe <sub>2</sub> O <sub>3</sub> ) 1309-37-1	-	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

<b>Reproductive toxicity</b>	Based on available data, the classification criteria are not met. Classification not possible.
<b>STOT - single exposure</b>	Based on the classification criteria of the Globally Harmonized System as adopted in the country or region with which this safety data sheet complies, this product has been determined to cause systemic target organ toxicity from acute exposure. (STOT SE). Causes damage to organs. May cause respiratory irritation. May cause drowsiness or dizziness.

H370 - Causes damage to the following organs: Respiratory system.

<b>STOT - repeated exposure</b>	Causes damage to organs through prolonged or repeated exposure.
	H372 - Causes damage to the following organs through prolonged or repeated exposure: Respiratory system.

<b>Aspiration hazard</b>	Based on available data, the classification criteria are not met. Classification not possible.
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## 12. Ecological information

<b>Ecotoxicity</b>	Classification not possible.
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<b>Percentage for unknown hazards</b>	1E-05 % of the mixture consists of component(s) of unknown hazards to the aquatic environment.
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Chemical name	Algae/aquatic plants	Fish	Crustacea
Iron oxide (Fe <sub>2</sub> O <sub>3</sub> )	-	LC50: =100000mg/L (96h, Danio rerio)	-

<b>Persistence and degradability</b>	No information available.
<b>Bioaccumulation</b>	No data available as this product.
<b>Component Information</b>	
<b>Mobility in soil</b>	No information available.
<b>Hazardous to the ozone layer</b>	Classification not possible. Based on available data, the classification criteria are not met.
<b>Other adverse effects</b>	No information available.

**Endocrine Disruptor Information****13. Disposal considerations**

<b>Waste from residues/unused products</b>	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.
<b>Contaminated packaging</b>	Dispose containers as same as residual of this product.

**14. Transport information**

<b><u>IMDG</u></b>	Not regulated
<b><u>ADR</u></b>	Not regulated
<b><u>IATA</u></b>	Not regulated
<b><u>Japanese regulations</u></b>	Not regulated

**15. Regulatory information****National regulations****Pollutant Release and Transfer Registry (PRTR)**

Not applicable

**Industrial Safety and Health Law****Harmful Substances Whose Names Are to be Indicated on the Label**

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**ISHL Notifiable Substances**

ISHL Notifiable Substances - information (safety data sheet) to be supplied; Industrial Safety and Health Law enforcement order Table 9 (related to Industrial Safety and Health Law article 57-2 and ISHL Ordinance Article 34-2-4)

**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

**16. Other information****Revision Date**

18-Mar-2022

**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**

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.