

Issue date 24-Aug-2021

Revision Date 24-Aug-2021

Revision Number 1

## 1. Identification

**Product Name** ThreeBond 1209

### 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 possible
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	Category 2A
Respiratory sensitization	Classification not possible
Skin sensitization	Category 1B
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)	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



**Signal word** Warning

### **Hazard statements**

H319 - Causes serious eye irritation  
H317 - May cause an allergic skin reaction  
H411 - Toxic to aquatic life with long lasting effects

**Precautionary statements****Prevention**

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.  
 Avoid release to the environment.  
 Wear protective gloves/protective clothing/eye protection/face protection.

**Response**

Specific treatment (see section 4 on this SDS).  
 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 water and soap.  
 If skin irritation or rash occurs: Get medical advice/attention.  
 Take off contaminated clothing and wash it before reuse.  
 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.

### 3. Composition/information on ingredients

**Pure substance/mixture**

Mixture

**Chemical nature**

Acetone is generated during curing reaction.

Chemical name	CAS No	Weight-%	ENCS Number	ISHL No
iron oxide	-	1-<5	-	-
Carbon black	1333-86-4	10-<20	(5)-5222,(5)-3328	(5)-5222,(5)-3328
Other silicone resin	-	75-<85	-	-
Alkenoxysilane	-	1-<10	-	-
Acetone	67-64-1	-	(2)-542	(2)-542

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	-	ISHL Notifiable Substances	192
Carbon black	1333-86-4	ISHL Notifiable Substances	130

**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	-	Harmful Substances Whose Names Are to be Indicated on the Label	192
Carbon black	1333-86-4	Harmful Substances Whose Names Are to be Indicated on the Label	130

**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.
<b>In case of skin contact</b>	Wash skin with soap and water.
<b>In case of eye contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.
<b>In case of ingestion</b>	Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician.
<b>Most important symptoms/effects, acute and delayed</b>	May cause redness and tearing of the eyes. Burning sensation.
<b>Self-protection of the first aider</b>	Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).
<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> <b>Large Fire</b>	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>	Avoid contact with skin, eyes or clothing. 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>	Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Take equipment measures listed in Section 8. Wear protection gear.
<b>Hygiene Measures</b>	Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. 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.
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## 8. Exposure controls/personal protection

<b>Engineering controls</b>	Showers Eyewash stations Ventilation systems.
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### Exposure guidelines

Chemical name	Japan Society of Occupational Health	ISHL Working Environmental Evaluation Standards - Administrative Control Levels	ACGIH TLV
Carbon black 1333-86-4	TWA: 4 mg/m <sup>3</sup> TWA: 1 mg/m <sup>3</sup>	-	TWA: 3 mg/m <sup>3</sup> inhalable particulate matter
Acetone 67-64-1	TWA: 200 ppm TWA: 470 mg/m <sup>3</sup> ISHL/ACL: 500 ppm	500ppm	STEL: 500 ppm TWA: 250 ppm

### Biological occupational exposure limits

Chemical name	Japan Society of Occupational Health	ACGIH
Acetone 67-64-1	40 mg/L - urine (Acetone) - within 2 h prior to end of shift	25 mg/L - urine (Acetone) - end of shift

<b>Environmental exposure controls</b>	Install local ventilation or seal source of substances. Install safety shower, hand wash, and eye wash station. Clearly indicate the location.
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### Personal protective equipment

<b>Respiratory protection</b>	In case of inadequate ventilation wear respiratory protection.
<b>Hand protection</b>	Wear suitable gloves.
<b>Eye/face protection</b>	If splashes are likely to occur, wear safety glasses with side-shields.
<b>Skin and body protection</b>	Wear suitable protective clothing.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

Physical state	Solid	
Color	Black	
Odor	Distinct odor	
<b>Property</b>	<b>Values</b>	<b>Remarks • Method</b>
Melting point / freezing point	no data available	
Boiling point / boiling range	no data available	
Flammability	no data available	
Upper/lower flammability or explosive limits	no data available	
Upper flammability or explosive limits		
Lower flammability or explosive limits		
Flash point	15 °C	Closed Cup
Autoignition temperature	no data available	
Decomposition temperature	no data available	
pH	no data available	
Kinematic viscosity	no data available	
Dynamic viscosity	140 Pa • s	
Water solubility	Slightly soluble	
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	1.05	
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	React with moisture in air. Gradually release hazardous gas.
Conditions to avoid	Extreme heat.
Incompatible materials	Strong oxidizing agents, Water, Moisture.
Hazardous decomposition products	Reacts with water, moisture and water in the air to form the following compounds. Acetone. During combustion, carbon monoxide, carbon dioxide, nitrogen oxides and the like to produce. silicon dioxide. Nitrogen oxides (NOx). Metal oxide. Formaldehyde.

## 11. Toxicological information

### Acute toxicity

Classification not possible.

### Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 21,475.70 mg/kg  
ATEmix (dermal) 2,812.60 mg/kg

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Carbon black	> 15400 mg/kg ( Rat )	-	> 4.6 mg/m <sup>3</sup> ( Rat ) 4 h
Acetone	= 5800 mg/kg ( Rat )	> 15700 mg/kg ( Rabbit )	= 50100 mg/m <sup>3</sup> ( Rat ) 8 h

*Abbreviations and acronyms*

*Rat: Rat*

*Rabbit: Rabbit*

**Symptoms** May cause redness and tearing of the eyes.

**Product Information**

**Ingestion** Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Inhalation** Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.

**Skin contact** Specific test data for the substance or mixture is not available. May cause irritation. Prolonged contact may cause redness and irritation. May be harmful in contact with skin.

**Eye contact** Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain.

**Skin corrosion/irritation** Based on available data, the classification criteria are not met. Classification not possible. May cause skin irritation.

**Serious eye damage/eye irritation** Classification based on data available for ingredients. Causes serious eye irritation.

**Germ cell mutagenicity** Based on available data, the classification criteria are not met. Classification not possible.

**Carcinogenicity** 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.

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

**Reproductive toxicity** Based on available data, the classification criteria are not met. Classification not possible.

**Target organ effects** Eyes. Lymphatic System. Respiratory system. Skin.

**STOT - single exposure** Based on available data, the classification criteria are not met. Classification not possible.

**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. Based on available data, the classification criteria are not met. Classification not possible.

**Aspiration hazard**

Based on available data, the classification criteria are not met. Classification not possible.

## 12. Ecological information

**Ecotoxicity**

Toxic to aquatic life with long lasting effects.

**Percentage for unknown hazards**

0 % of the mixture consists of component(s) of unknown hazards to the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Crustacea
Acetone	-	LC50: 4.74 - 6.33mL/L (96h, <i>Oncorhynchus mykiss</i> ) LC50: 6210 - 8120mg/L (96h, <i>Pimephales promelas</i> ) LC50: =8300mg/L (96h, <i>Lepomis macrochirus</i> )	EC50: 10294 - 17704mg/L (48h, <i>Daphnia magna</i> ) EC50: 12600 - 12700mg/L (48h, <i>Daphnia magna</i> )

**Persistence and degradability**

No information available.

**Bioaccumulation**

No data available as this product.

**Component Information**

Chemical name	Partition coefficient
Acetone 67-64-1	-0.24

**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  
UN proper shipping name  
Description

UN3077  
Environmentally hazardous substance, solid, n.o.s.  
UN3077, Environmentally hazardous substance, solid, 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, 966, 967, 969

**ADR**

UN/ID No.	UN3077
Proper shipping name	Environmentally hazardous substance, solid, n.o.s.
Description	UN3077, Environmentally hazardous substance, solid, n.o.s.9, III, (-)
Transport hazard class(es)	9
Packing group	III
Environmental hazard	Yes
ERG code	9L
Special provisions	274, 335, 601, 375

**IATA**

UN/ID No.	UN3077
Proper shipping name	Environmentally hazardous substance, solid, n.o.s.
Description	UN3077, Environmentally hazardous substance, solid, n.o.s. 9, III
Transport hazard class(es)	9
Packing group	III
Special provisions	A158, A179, A97, A197

**Japanese regulations**

UN Number	UN3077
Proper shipping name	Environmentally hazardous substance, solid, n.o.s.
Description	UN3077, Environmentally hazardous substance, solid, n.o.s. 9, III
Hazard class	9
Packing group	III
Special provisions	BK2, 274, 335

## 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**

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)

**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:**

Combustible solids, group 2, Flammable solids, hazard rank III, 1000 kg

**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** 24-Aug-2021**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-Labeling 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.