# ThreeBond

# **SAFETY DATA SHEET**

This safety data sheet complies with the requirements of: JIS Z 7252:2019; JIS Z 7253:2019

> Issuing Date 14-Sep-2021 Revision date 06-Dec-2023 Revision Number 2

## 1. Identification

Product Name ThreeBond 1342J

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**

<u>OTIO CIASSITICATION</u>	
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	Category 2A
Respiratory sensitization	Classification not possible
Skin sensitization	Category 1
Germ cell mutagenicity	Classification not possible
Carcinogenicity	Classification not possible
Reproductive toxicity	Category 1A
Effects on or via lactation	Yes
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	Classification not possible
Chronic aquatic toxicity	Classification not possible
Ozone	Classification not possible

#### GHS label elements

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## Signal word

Danger

### **Hazard statements**

H319 - Causes serious eye irritation

H317 - May cause an allergic skin reaction

H360 - May damage fertility or the unborn child

H362 - May cause harm to breast-fed children

#### **Precautionary statements**

#### Prevention

- Do not handle until all safety precautions have been read and understood
- Wear protective gloves/protective clothing/eye protection/face protection
- Do not breathe dust/fume/gas/mist/vapors/spray
- Avoid contact during pregnancy and while nursing
- · Wash face, hands and any exposed skin thoroughly after handling
- Do not eat, drink or smoke when using this product
- Contaminated work clothing should not be allowed out of the workplace
- Obtain special instructions or technical data sheet before use

#### Response

- IF exposed or concerned: Get medical advice/attention
- 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

## Skin

- 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

#### Storage

· Store locked up

## **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.
Toluene	108-88-3	0.1-<1	(3)-2,(3)-60	2-(8)-869
Cumene	98-82-8	0.1-<1	(3)-22	(3)-32,(3)-22
Methacrylic acid ester, Additive	-	90-<99	_	

## Pollutant Release and Transfer Register (PRTR)

Not applicable

## **Industrial Safety and Health Law**

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## 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
Toluene	Toluene	108-88-3	
Cumene	Cumene	98-82-8	

#### 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
Toluene	Toluene	108-88-3	

## **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

**General advice** Show this safety data sheet to the doctor in attendance.

In case of inhalation Remove to fresh air.

In case of skin contact Wash with soap and water. May cause an allergic skin reaction. In the case of skin irritation

or allergic reactions see a physician.

In case of eye contact 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.

In case of ingestion 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.

Most important symptoms/effects,

acute and delayed

Itching. Rashes. Hives. May cause redness and tearing of the eyes. Burning sensation.

**Self-protection of the first aider** Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

**Note to physicians** May cause sensitization in susceptible persons. Treat symptomatically.

## 5. Fire-fighting measures

surrounding environment.

**Unsuitable extinguishing media**Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the

chemical

Product is or contains a sensitizer. May cause sensitization by skin contact.

**Special Extinguishing Media** Cool container with water spray.

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Use personal protection equipment.

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Other information CAUTION: Use of water spray when fighting fire may be inefficient.

## 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away

from and upwind of spill/leak.

**Environmental precautions** See Section 12 for additional Ecological Information.

**Methods for containment** 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.

**Other information** 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. Avoid contact with

skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Remove contaminated clothing and shoes.

**Hygiene Measures**Do not eat, drink or smoke when using this product. Wash hands before breaks and

immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear

suitable gloves and eye/face protection.

Storage

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up.

## 8. Exposure controls/personal protection

## **Exposure guidelines**

Chemical name	Japan Society of	ISHL Working	ACGIH TLV	Japan ISHA	Japan ISHA
	Occupational Health	Environmental		Workplace exposure	Workplace exposure
		Evaluation		limit - 8 hours	limit - Short time
		Standards -			
		Administrative			
		Control Levels			
Toluene	TWA: 50 ppm	20 ppm	Ototoxicant -	-	-
108-88-3	TWA: 188 mg/m <sup>3</sup>		potential to cause		
	S*		hearing disorders		
			TWA: 20 ppm		
Cumene	TWA: 10 ppm	-	TWA: 5 ppm	10 ppm	-
98-82-8	TWA: 50 mg/m <sup>3</sup>			·	
	S*				

#### **Biological monitoring indicator**

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Chemical name	Japan Society of Occupational Health	ACGIH
Toluene	0.6 mg/L - blood (Toluene) - within 2 h	0.02 mg/L - blood (Toluene) - prior to
	prior to end of shift at end of work week	
	0.06 mg/L - urine (Toluene) - within 2 h	0.03 mg/L - urine (Toluene) - end of shift
	prior to end of shift at end of work week	0.3 mg/g creatinine - urine (o-Cresol with
		hydrolysis) - 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.

**Hand protection** Wear suitable gloves. 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.

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Skin and body protection** Wear suitable protective clothing.

## 9. Physical and chemical properties

## Information on basic physical and chemical properties

Physical state Liquid
Color Blue
Odor Distinct odor

Property Values Remarks • Method

Melting point / freezing point no data available

Initial boiling point and boiling range

**Flammability** no data available

Upper/lower flammability or explosive limits

Upper flammability or explosive no

no data available

limits

Lower flammability or explosive no data available

limits

Flash point Not flammable
Evaporation rate no data available
Autoignition temperature no data available
Decomposition temperature no data available

рН

no data available

Viscosity

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Kinematic viscosityno data availableDynamic viscosity150 mPa·sWater solubilitySlightly solubleSolubility(ies)no data availablePartition Coefficientno data available

(n-octanol/water)

Vapor pressure no data available

Density and/or relative density

Relative density 1.06

Liquid Density no data available
Bulk density no data available
Relative vapor density no data available

**Particle characteristics** 

Particle Size no data available
Particle Size Distribution no data available

Other information

**Explosive properties** no data available **Oxidizing properties** No data available

## 10. Stability and reactivity

Chemical stability Stable under normal conditions.

Possibility of hazardous reactions Polymerize by contacting metals and excluding oxygen. Polymerize by heat.

Conditions to avoid heating.

Incompatible materials Metals.

Hazardous decomposition products 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

**ATEmix (oral)** 16,492.00 mg/kg

Numerical measures of toxicity - Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Toluene	= 2600 mg/kg (Rat)	= 12000 mg/kg (Rabbit)	= 12.5 mg/L (Rat) 4 h
	3.3 (,	]	9 (,
Cumene	= 1400 mg/kg (Rat)	= 12300 μL/kg (Rabbit)	> 3577 ppm (Rat) 6 h

Abbreviations and acronyms

Rat: Rat Rabbit: Rabbit

Symptoms Itching. Rashes. Hives. 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** May cause sensitization by skin contact. Specific test data for the substance or mixture is

not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). May cause irritation. Prolonged contact may

cause redness and irritation.

**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.

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

**Respiratory or skin sensitization** May cause an allergic skin reaction.

## Carcinogenicity

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

Chemical name	Japan	IARC
Toluene	-	Group 3
108-88-3		·
Cumene	1B	Group 2B
98-82-8		·

## Legend

## IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

Group 3 - Not Classifiable as to Carcinogenicity in Humans

Reproductive toxicity Classification based on data available for ingredients. May damage fertility or the unborn

child. May cause harm to breast-fed children.

## 12. Ecological information

**Ecotoxicity** 

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

Chemical name	Algae/aquatic plants	Fish	Crustacea
Toluene	EC50: >433mg/L (96h,	LC50: 15.22 - 19.05mg/L (96h,	EC50: 5.46 - 9.83mg/L (48h,

	Pseudokirchneriella	Dimenhales premales)	Donhnia magna)
	subcapitata)	Pimephales promelas) LC50: =12.6mg/L (96h,	Daphnia magna) EC50: =11.5mg/L (48h,
	EC50: =12.5mg/L (72h,	Pimephales promelas)	Daphnia magna)
	Pseudokirchneriella	LC50: 5.89 - 7.81mg/L (96h,	Daprillia magna)
	subcapitata)	Oncorhynchus mykiss)	
		LC50: 14.1 - 17.16mg/L (96h,	
		Oncorhynchus mykiss)	
		LC50: =5.8mg/L (96h,	
		Oncorhynchus mykiss)	
		LC50: 11.0 - 15.0mg/L (96h,	
		Lepomis macrochirus)	
		LC50: =54mg/L (96h, Oryzias	
		latipes)	
		LC50: =28.2mg/L (96h,	
		Poecilia reticulata)	
		LC50: 50.87 - 70.34mg/L (96h,	
		Poecilia reticulata)	
Cumene	EC50: =2.6mg/L (72h,	LC50: 6.04 - 6.61mg/L (96h,	EC50: =0.6mg/L (48h,
	Pseudokirchneriella	Pimephales promelas)	Daphnia magna)
	subcapitata)	LC50: =4.8mg/L (96h,	EC50: 7.9 - 14.1mg/L (48h,
		Oncorhynchus mykiss)	Daphnia magna)
		LC50: =2.7mg/L (96h,	
		Oncorhynchus mykiss)	
		LC50: =5.1mg/L (96h, Poecilia	
		reticulata)	

**Percentage for unknown hazards**0.00999 % 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
Toluene 108-88-3	2.73
Cumene 98-82-8	3.55

**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 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.

## 14. Transport information

<u>IMDG</u> Not regulated

ADR Not regulated

IATA Not regulated

<u>Japan</u> Not regulated

## 15. Regulatory information

#### **National regulations**

Pollutant Release and Transfer Register (PRTR)

Not applicable

**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

#### Poisonous and Deleterious Substances Control Law

Not applicable

**Explosives Control Law** 

No

**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

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#### 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)"

Revision date 06-Dec-2023

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.

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