ThreeBond

SAFETY DATA SHEET

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

> Issuing Date 17-Sep-2021 Revision date 06-Jun-2023 Revision Number 3

1. Identification

Product Name ThreeBond 1530D

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	- 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	Category 2	
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	n hazard Classification not possible	
cute aquatic toxicity Category 2		
rronic aquatic toxicity Category 2		
Ozone	Classification not possible	

GHS label elements

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Signal word Hazard statements Warning

H315 - Causes skin irritation

H411 - Toxic to aquatic life with long lasting effects

Precautionary statements

Prevention

- · Wash face, hands and any exposed skin thoroughly after handling
- Wear protective gloves
- Avoid release to the environment

Response

• Specific treatment (see section 4 on this SDS)

Skin

- IF ON SKIN: Wash with plenty of water and soap
- If skin irritation 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

No information available.

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
Methyl alcohol	67-56-1	=	(2)-201	(2)-201
Tris(2-ethylhexyl)phosphate	78-42-2	11	(2)-2000	(2)-2000
Organic tin compound	-	1-<5		
Silyl group terminated polymer, inorganic filler	-	80-<90		

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 Weight-%

Chemical name	Cabinet order	Metal, CN, F, etc	Conversion	Content rate %	Category	Ordinance	Control number
	name		coefficient			number	
*	Phosphoric Acid,			11	Class I	1-458	458
	Tris(2-Ethylhexyl				designated		
) Ester				chemical		
	,				substance		

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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

Weight-%

Chemical name	Cabinet order name	Metal, CN, F, etc	Conversion coefficient	Content rate %	Category	Ordinance number	Control number
*	Phosphoric Acid, Tris(2-Ethylhexyl) Ester			11	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 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

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. Get medical attention immediately if symptoms occur.

In case of skin contact Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical

attention if irritation develops and persists.

In case of eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep

eye wide open while rinsing. Remove contact lenses, if present and easy to do. Continue

rinsing. 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

No information available.

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

Note to physicians Treat symptomatically.

5. Fire-fighting measures

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

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

Refer to Cabinet order name

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Specific hazards arising from the

chemical

No information available.

Flammable propertiesContainers may explode when heated.

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.

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.

Environmental precautions Prevent further leakage or spillage if safe to do so.

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

contaminated clothing and wash before reuse.

Hygiene Measures Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this

product.

Storage

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

8. Exposure controls/personal protection

Exposure guidelines

Chemical name	Japan Society of Occupational Health	ISHL Working Environmental Evaluation Standards -	ACGIH TLV
		Administrative Control Levels	
Methyl alcohol	TWA: 200 ppm	200 ppm	STEL: 250 ppm
67-56-1	TWA: 260 mg/m ³		TWA: 200 ppm
	S*		S*

Biological occupational exposure limits

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

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.

Wear suitable gloves. Impervious gloves. Hand protection

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

Skin and body protection Wear suitable protective clothing. Long sleeved clothing.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state Liquid Color Gray Odor Distinct odor

Remarks • Method Property Values

Melting point / freezing point Initial boiling point and boiling

range

no data available Not available

Flammability no data available

Upper/lower flammability or explosive limits

Upper flammability or explosive

no data available

limits

Lower flammability or explosive

no data available

limits

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

Viscosity

Kinematic viscosity

Dynamic viscosity 22 Pa ·s Slightly soluble Water solubility Solubility(ies) no data available **Partition Coefficient** no data available

(n-octanol/water)

Vapor pressure no data available

Density and/or relative density

Relative density 1.39

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

Particle characteristics

Particle Size no data available no data available **Particle Size Distribution**

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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 React with moisture in air. Gradually release hazardous gas.

Conditions to avoidNo information available.

Incompatible materials Strong acids. Strong bases. Strong oxidizing agents.

Hazardous decomposition products May generate harmful gas by incineration.

11. Toxicological information

Acute toxicity

Numerical measures of toxicity - Product Information

No information available

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

ATEmix (dermal) 74,171.20 mg/kg

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
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/m³ (Rat) 4 h

Abbreviations and acronyms

Rat: Rat Rabbit: Rabbit

Symptoms Redness. 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. Causes skin irritation. (based

on components).

Eye contact Specific test data for the substance or mixture is not available. Irritating to eyes. (based on

components).

Skin corrosion/irritation Classification based on data available for ingredients. Irritating to skin.

Serious eye damage/eye irritation Based on available data, the classification criteria are not met. Classification not possible.

Respiratory or skin sensitization Classification not possible.

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Germ cell mutagenicityBased on available data, the classification criteria are not met. Classification not possible.

Carcinogenicity 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.

Legend

IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

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

Target organ effects Eyes. Respiratory system. Skin.

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

STOT - repeated exposureBased on available data, the classification criteria are not met. Classification not possible.

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

12. Ecological information

Ecotoxicity

Toxic 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

0.01 % of the mixture consists of component(s) of unknown hazards to the aquatic

hazards

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	6.26			

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78-42-2

No information available. Mobility in soil

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

UN3082 UN number or ID number

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) Ш Packing group Ρ Marine pollutant **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) Packing group Ш **Environmental hazards** Yes

ERG Code 9L

274, 335, 601, 375 **Special Provisions**

IATA

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

Transport hazard class(es) 9

Packing group

Special Provisions A97, A158, A197

Japan

UN3082 **UN number or ID number**

UN proper shipping name Environmentally hazardous substance, liquid, n.o.s.

Description UN3082, Environmentally hazardous substance, liquid, n.o.s., 9, III

Transport hazard class(es) 9 Packing group Ш

274, 335 **Special Provisions**

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)

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Applies See section 3 for more information

Industrial Safety and Health Law

Prevention of hazards due to specified chemical substances

Not applicable

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

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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)". 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.