ThreeBond

SAFETY DATA SHEET

Issue date 18-Mar-2022 Revision Date 18-Mar-2022 **Revision Number** 1

1. Identification

Product Name ThreeBond 1212

Recommended use of the chemical and restrictions on use Recommended use Adhesive, Sealant

Details of the supplier of the safety data sheet

ThreeBond Fine Chemical Co., Ltd. **Supplier**

1-1 Oyama-cho, Midori-ku, Sagamihara-shi, Kanagawa 252-0146 Japan

+81-42-703-7126 (Inquiries regarding SDS content) **Emergency telephone number**

+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	Category 2
Serious eye damage/eye irritation	Category 1
Respiratory sensitization	Classification not possible
Skin sensitization	Category 1B
Germ cell mutagenicity	Classification not possible
Carcinogenicity	Category 1B
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	Classification not possible
Chronic aquatic toxicity	Classification not possible
Ozone	Classification not possible

GHS label elements



Signal word **Hazard statements** Danger

H315 - Causes skin irritation

H318 - Causes serious eye damage

H317 - May cause an allergic skin reaction

H350 - May cause cancer

Precautionary statements

Prevention

Do not handle until all safety precautions have been read and understood.

Wear protective gloves/protective clothing/eye protection/face protection.

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.

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 Immediately call a POISON CENTER or doctor

IF ON SKIN: Wash with plenty of water and soap.

Take off contaminated clothing and wash it before reuse.

If skin irritation or rash occurs: Get medical advice/attention.

Storage

Store locked up.

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

Generated during the curing reaction of methyl ethyl ketone oxime

Chemical name	CAS No	Weight-%	ENCS Number	ISHL No
Titanium dioxide (IV)	13463-67-7	1-<5	(1)-558,(5)-5225	(5)-5225,(1)-558 2-(3)-509
Silicon compound	-	90-<99	-	-
Methyl ethyl ketone oxime	-	-	-	-

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
Titanium dioxide (IV)	13463-67-7	ISHL Notifiable Substances	191

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
Titanium dioxide (IV)	13463-67-7	Harmful Substances Whose	191
	Names Are to be Indicated on the		
	Label		

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 Immediate medical attention is required. Show this safety data sheet to the doctor in

attendance. IF exposed or concerned: Get medical advice/attention.

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 Get immediate medical advice/attention. 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.

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

Burning sensation.

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

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

No information available.

Flammable properties Combustible material: may burn but does not ignite readily. Contact with metals may evolve

flammable hydrogen gas. Containers may explode when heated.

Special extinguishing media

Large Fire

Cool container with water spray.

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

Special protective equipment and

precautions for fire-fighters

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

gear. Use personal protection equipment.

6. Accidental release measures

Personal precautions, protective equipment and emergency

procedures

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

Ensure adequate ventilation.

For emergency responders Use personal protection recommended in Section 8.

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 Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do

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

immediately after handling the product.

Storage

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

Keep out of the reach of children.

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
Titanium dioxide (IV) 13463-67-7	TWA: 0.3 mg/m ³	•	TWA: 10 mg/m ³

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 suitable gloves. Impervious gloves.

Eye/face protection Tight sealing safety goggles.

Skin and body protectionWear suitable protective clothing. Long sleeved clothing.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical stateSolidColorWhiteOdorDistinct odor

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

Melting point / freezing point no data available Boiling point / boiling range no data available no data available no data available

Upper/lower flammability or explosive limits no data available

Upper flammability or explosive

limits

Lower flammability or explosive

limits

Flash point 75 °C Closed Cup

Autoignition temperature no data available **Decomposition temperature** no data available рΗ no data available Kinematic viscosity no data available Dynamic viscosity 300 Pa ·s Water solubility Slightly soluble Solubility(ies) no data available **Partition Coefficient** no data available

(n-octanol/water)

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 Hazardous polymerization does not occur.

Conditions to avoid None under normal use conditions.

Incompatible materials Strong oxidizing agents. Water. Moisture.

Hazardous decomposition products. Reacts with water, moisture and water in the air to form the following compounds.

Methylethylketooxime. May generate harmful gas by incineration. Carbon monoxide. Carbon oxides. Incomplete combustion and carbon compounds of trace. silicon dioxide.

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 (dermal) 2,838.30 mg/kg

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Titanium dioxide (IV)	> 10000 mg/kg (Rat)	-	-

Abbreviations and acronyms

Rat: Rat Rabbit: Rabbit

Symptoms Redness. Burning. May cause blindness. 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. Causes serious eye

damage. May cause irreversible damage to eyes. Irritating to eyes. (based on components).

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

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

damage to eyes.

Germ cell mutagenicityBased 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. Contains a known or suspected carcinogen. Classification based on data available for ingredients. May

cause cancer.

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

Chemical name	Japan	IARC
Titanium dioxide (IV)	2	Group 2B
13463-67-7		·

Legend

IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

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

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 hazard

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

12. Ecological information

Ecotoxicity Classification not possible.

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 No data available as this product.

Component Information

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>Japanese regulations</u> 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:

Designated Combustible Substances - Combustible solids

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.
