

Issue date 14-Jan-2014

Revision Date 29-Mar-2016

Version 2

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Product name ThreeBond 1530

Recommended use of the chemical and restrictions on use

Recommended use Adhesive, Sealant

Details of the supplier of the safety data sheet

Manufacturer

ThreeBond Fine Chemical Co., Ltd.

Department in charge & Address

Production Engineering Division
1-1 Oyama-cho, Midori-ku
Sagamihara-shi, Kanagawa, Japan

Emergency telephone number

+81-42-774-1333

Section 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Label elements

Signal word None

Hazard statements

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Single substance or mixture Mixture
Methanol; Generated during polymerization reaction. June 1, 2016, regarding Japan's Industrial Safety and Health Law's "Notifiable Dangerous and Harmful", target substances will be subjected to risk assessment in accordance with Japan's Industrial Safety and Health Law's "Substances Harmful Substances Whose Names Are to be Indicated on the Label."

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

| Chemical name | Weight-% | ENCS | ISHL No. | CAS No. |
|------------------------|----------|---------|----------|---------|
| Methyl alcohol | - | (2)-201 | - | 67-56-1 |
| Silyl-terminated resin | 50-60 | - | - | - |
| Silica | <1 | - | - | - |
| Organic tin compound | 1-3 | - | - | - |
| Inorganic filler | 35-45 | - | - | - |

Industrial Safety and Health Law

| Law Name | Chemical Name in Regulation | Ordinance Number |
|--|-----------------------------|------------------|
| Notifiable Substances (Law Art.57-2, Enforcement Order Art.18-2 Attached Table No.9) | Silica | 312 |
| Notifiable Substances (Law Art.57-2, Enforcement Order Art.18-2 Attached Table No.9) | Tin and its compounds | 322 |
| Notifiable Substances (Law Art.57-2, Enforcement Order Art.18-2 Attached Table No.9, and Law Art.56-1) | Methanol | 560 |

Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc

| Law Name | Chemical Name in Regulation | Ordinance Number |
|---|-----------------------------|------------------|
| Priority Assessment Chemical Substances (Law Article 2, Para.5) | Methanol | 90 |

Section 4: FIRST AID MEASURES

INHALATION Remove to fresh air. Seek immediate medical attention/advice.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. In the case of skin irritation or allergic reactions see a physician.

Eye contact IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Seek immediate medical attention/advice.

INGESTION Rinse mouth. Get medical attention.

Section 5: FIRE FIGHTING MEASURES

Suitable extinguishing media Water spray (fog) Carbon dioxide (CO₂) Extinguishing powder Alcohol resistant foam Sand

Specific hazards arising from the chemical May generate irritate, harmful gas.

Special extinguishing media Wear protection gear and extinguish from windward.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions Wear appropriate protection gear (Refer to Section 8) and avoid eye and skin contact.

Environmental precautions Keep out of waterways. Avoid release to the environment.

Methods for containment In case of small spill, absorb the spill in dry sand, soil or cloth and keep in closed container. In case of large spill, surround the spill by bank to prevent from leakage, and collect the spill after it is moved to safety place.

Prevention of secondary hazards Keep ignition source away from spill.

Section 7: HANDLING AND STORAGE

Handling

Precautions for safe handling

Advice on safe handling Take equipment measures listed in Section 8. Wear protection gear.

Local and general ventilation Take equipment measures listed in Section 8. Wear protection gear.

Storage

Storage conditions Close lid. Avoid direct sun light and ignition source. Keep appropriate temperature. Refer to technical data sheet or material sgreement and other documents for storage temperature range. Fire prohibited.

Material of vessels and packaging Keep this product in original container. Do not put it back in the container.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure guidelines

| Chemical name | Japan | ISHL Working Environmental Evaluation Standards - Administrative Control Levels | ACGIH TLV |
|----------------|---|---|---------------------------------------|
| Methyl alcohol | TWA: 200 ppm TWA: 260 mg/m ³ Skin ISHL/ACL: 200 ppm | ISHL/ACL: 200 ppm | STEL: 250 ppm TWA: 200 ppm Skin |

Engineering 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.

Other information Wash hands thoroughly after handling. When using do not eat, drink or smoke.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state Paste
Odor Distinct odor
Color White

| <u>Property</u> | <u>Values</u> | <u>Remarks</u> |
|-------------------------------|-------------------|----------------|
| pH | No data available | |
| Melting point/freezing point | No data available | |
| Boiling point / boiling range | No data available | |
| Flash point | Not flammable | |
| Evaporation rate | No data available | |

| | |
|----------------------------------|-------------------|
| Flammability (solid, gas) | |
| Flammability limit in air | |
| Upper flammability limit: | No data available |
| Lower flammability limit: | No data available |
| Specific gravity | 1.39 |
| Water solubility | Slightly soluble |
| Autoignition temperature | No data available |
| Decomposition temperature | No data available |
| Dynamic viscosity | 100 Pa·s |

Section 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 | Heat |
| Incompatible materials | No information available. |
| Hazardous decomposition products | May generate harmful gas by incineration |

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

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

Inhalation LC50 No data available as this product.

Numerical measures of toxicity - Component Information

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|----------------|----------------------|--------------------------|--|
| Methyl alcohol | = 6200 mg/kg (Rat) | = 15800 mg/kg (Rabbit) | = 22500 ppm (Rat) 8 h = 64000 ppm (Rat) 4 h |

Delayed and immediate effects as well as chronic effects from short and long-term exposure

| | |
|--|---|
| Skin corrosion/irritation | No data available as this product. |
| Serious eye damage/eye irritation | No data available as this product. |
| Sensitization | No data available as this product. |
| Germ cell mutagenicity | No data available as this product. |
| Carcinogenicity | The table below indicates whether each agency has listed any ingredient as a carcinogen |
| Reproductive toxicity | No data available as this product. |
| STOT - single exposure | No data available as this product. |
| STOT - repeated exposure | No data available as this product. |
| Aspiration hazard | No data available as this product. |

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity
Acute aquatic hazard No data available as this product.
Chronic aquatic hazard No data available as this product.

| Chemical name | Algae/aquatic plants | Fish | Crustacea |
|----------------|----------------------|---|-----------|
| Methyl alcohol | - | 100: 96 h <i>Pimephales promelas</i> mg/L LC50 static 28200: 96 h <i>Pimephales promelas</i> mg/L LC50 flow-through 19500 - 20700: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 flow-through 18 - 20: 96 h <i>Oncorhynchus mykiss</i> mL/L LC50 static 13500 - 17600: 96 h <i>Lepomis macrochirus</i> mg/L LC50 flow-through | - |

Persistence and degradability No data available as this product.
Bioaccumulation No data available as this product.
Mobility in soil No data available as this product.
Endocrine disruptor information No data available as this product.

Section 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.

Section 14: TRANSPORT INFORMATION

IMDG Not regulated
ICAO/IATA (air) Not regulated
ADR Not regulated

Japanese regulations
Marine Transportation Safety Act Not applicable
Civil Aeronautics Act Not applicable

Section 15: REGULATORY INFORMATION

Fire protection law criteria Non-hazardous material

Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc Priority Assessment Chemical Substances (Law Article 2, Para.5)

Industrial Safety and Health Law Notifiable Substances (Law Art.57-2, Enforcement Order Art.18-2 Attached Table No.9)

Other information June 1, 2016, regarding Japan's Industrial Safety and Health Law's "Notifiable Dangerous and Harmful", target substances will be subjected to risk assessment in accordance with Japan's Industrial Safety and Health Law's "Substances Harmful Substances Whose Names Are to be Indicated on the Label."

Section 16: OTHER INFORMATION

Issue date 14-Jan-2014

Other information Please contact to local sales offices for further information.

Disclaimer

Handle with care. The data in this document is not guaranteed. This information may be revised based on new findings or test results. This data sheet is authored in accordance with Japanese regulations.