ThreeBond

# SAFETY DATA SHEET

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

**Issuing Date** 09-Apr-2021
**Revision date** 08-Nov-2023
**Revision Number** 5

## 1. Identification

**Product Name** ThreeBond 4221

**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**

| | |
|---|---|
| Flammable liquids | Category 2 |
| Acute toxicity - Oral | Category 4 |
| 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 | Classification not possible |
| Germ cell mutagenicity | Classification not possible |
| Carcinogenicity | Category 1B |
| Reproductive toxicity | Category 1B |
| Effects on or via lactation | Classification not possible |
| Specific target organ toxicity (single exposure) | Category 1, Category 3 |
| Category 1 Respiratory system, Central nervous system, visual organs, systemic toxicity. | |
| Category 3 Target organ effects: Respiratory irritation, Narcotic effects. | |
| Specific target organ toxicity (repeated exposure) | Category 1 |
| Category 1 Respiratory system, Central nervous system, visual organs. | |
| 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** Danger

**Hazard statements**

H225 - Highly flammable liquid and vapor
H302 - Harmful if swallowed
H319 - Causes serious eye irritation
H350 - May cause cancer
H360 - May damage fertility or the unborn child
H335 - May cause respiratory irritation
H336 - May cause drowsiness or dizziness
H370 - Causes damage to organs
H372 - Causes damage to organs through prolonged or repeated exposure
Causes damage to the following organs: Respiratory system, Central nervous system, visual organs, systemic toxicity.
Causes damage to the following organs through prolonged or repeated exposure: Respiratory system, Central nervous system, visual organs.

**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
• Do not eat, drink or smoke when using this product
• Do not breathe dust/fume/gas/mist/vapors/spray
• Use only outdoors or in a well-ventilated area
• Ground and bond container and receiving equipment
• Use non-sparking tools
• Take action to prevent static discharges
• Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
• Keep container tightly closed
• Keep cool
• Obtain special instructions or technical data sheet before use
• Use explosion-proof electrical/ ventilating/ lighting/ equipment

**Response**

• IF exposed or concerned: Get medical advice/attention
• IF exposed or concerned: Call a POISON CENTER or doctor
• Specific treatment (see section 4 on this SDS)

**Eyes**

• 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

**Ingestion**

• IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell
• Rinse mouth

**Skin**

• IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]

**Inhalation**

• IF INHALED: Remove person to fresh air and keep comfortable for breathing
• Call a POISON CENTER or doctor if you feel unwell

**Fire**

• In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish

**Storage**

• Store locked up
• Store in a well-ventilated place. Keep container tightly closed

**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. |
|---|---|---|---|---|
| Vinyl acetate | 108-05-4 | 0.1-<1 | (2)-728 | (2)-728 |
| Titanium dioxide (IV) | 13463-67-7 | 1-<5 | (1)-558,(5)-5225 | (1)-558,(5)-5225 |
| Methyl alcohol | 67-56-1 | 34 | (2)-201 | (2)-201 |
| Synthetic resin, rosin derivatives, inorganic filler | - | 55-<65 | | |
| Noncrystalline silica | - | 0.1-<1 | | |

**Pollutant Release and Transfer Register (PRTR)**

Not applicable

**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 requiring risk assessment

Article 57-3 of the ISHL

| Chemical name | Ministerial Ordinance Name | CAS No. | Implementation date |
|---|---|---|---|
| Vinyl acetate | Vinyl acetate | 108-05-4 | |
| Titanium dioxide (IV) | Titanium(IV) oxide | 13463-67-7 | |
| Methyl alcohol | Methanol | 67-56-1 | |

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 |
|---|---|---|---|
| Titanium dioxide (IV) | Titanium(IV) oxide | 13463-67-7 | |
| Methyl alcohol | Methanol | 67-56-1 | |

**Poisonous and Deleterious Substances Control Law**

Not applicable

**Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. (CSCL)**

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed

| Chemical name | CAS No. | Chemical Substances Control Law |
|---|---|---|
| Vinyl acetate | 108-05-4 | Priority assessment chemical substance |

## 4. First-aid measures

**General advice** 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. IF exposed or concerned: Get medical advice/attention. |
| **In case of skin contact** | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician. |
| **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. Do not rub affected area. If symptoms persist, call a physician. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists. |
| **In case of ingestion** | Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician. |
| **Most important symptoms/effects, acute and delayed** | May cause redness and tearing of the eyes. Burning sensation. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. |
| **Self-protection of the first aider** | Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. |
| **Note to physicians** | Treat symptomatically. |

## 5. Fire-fighting measures

| | |
|---|---|
| **Suitable Extinguishing Media** | Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam. |
| **Unsuitable extinguishing media** | Do not scatter spilled material with high pressure water streams. |
| **Specific hazards arising from the chemical** | Risk of ignition. Keep product and empty container away from heat and sources of ignition. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire, cool container with water spray. |
| **Flammable properties** | HIGHLY FLAMMABLE: Will be easily ignited by heat, sparks or flames. Containers may explode when heated. Many liquids are lighter than water. |
| **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** | Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. |
| **For emergency responders** | Use personal protection recommended in Section 8. |
| **Environmental precautions** | Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. |
| **Methods for containment** | Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapor suppressing foam may be used to reduce vapors. Dike far ahead of spill to collect runoff water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other |

non-combustible material and transfer to containers for later disposal.

**Methods for cleaning up** Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

**Other information** Ventilate the area. 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. Use personal protection equipment. Avoid breathing vapors or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. In case of insufficient ventilation, wear suitable respiratory equipment.

**Hygiene Measures** Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. 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. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Keep out of the reach of children. Store locked up.

## 8. Exposure controls/personal protection

**Exposure guidelines**

| Chemical name | Japan Society of Occupational Health | ISHL Working Environmental Evaluation Standards - Administrative Control Levels | ACGIH TLV | Japan ISHA Workplace exposure limit - 8 hours | Japan ISHA Workplace exposure limit - Short time |
|---|---|---|---|---|---|
| Vinyl acetate<br>108-05-4 | - | - | STEL: 15 ppm<br>TWA: 10 ppm | 10 ppm | 15 ppm |
| Titanium dioxide (IV)<br>13463-67-7 | TWA: 0.3 mg/m$^3$ | - | TWA: 0.2 mg/m$^3$ nanoscale respirable particulate matter<br>TWA: 2.5 mg/m$^3$ finescale respirable particulate matter | - | - |
| Methyl alcohol<br>67-56-1 | TWA: 200 ppm<br>TWA: 260 mg/m$^3$ | 200 ppm | STEL: 250 ppm<br>TWA: 200 ppm | - | - |

| | | | | | |
|---|---|---|---|---|---|
| | S* | | S* | | |

**Biological monitoring indicator**

| Chemical name | Japan Society of Occupational Health | ACGIH |
|---|---|---|
| Methyl alcohol<br>67-56-1 | 20 mg/L - urine (Methanol) - end of shift | 15 mg/L - urine (Methanol) - 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. Impervious 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**
Tight sealing safety goggles.

**Skin and body protection**
Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron. Antistatic boots.

## 9. Physical and chemical properties

**Information on basic physical and chemical properties**

| | |
|---|---|
| **Physical state** | Liquid |
| **Color** | Gray |
| **Odor** | Solvent 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 limits** | no data available | |
| **Lower flammability or explosive limits** | no data available | |
| **Flash point** | 9.2 °C | Tag closed cup |
| **Evaporation rate** | no data available | |
| **Autoignition temperature** | no data available | |
| **Decomposition temperature** | no data available | |

| | |
|---|---|
| **pH** | no data available |
| **Viscosity** | |
| **Kinematic viscosity** | no data available |
| **Dynamic viscosity** | 4.7 Pa･s |
| **Water solubility** | Partially miscible |
| **Solubility(ies)** | no data available |
| **Partition Coefficient (n-octanol/water)** | no data available |
| **Vapor pressure** | no data available |
| **Density and/or relative density** | |
| **Relative density** | 1.24 |
| **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** React with strong oxidizing agent. Could cause fire.

**Conditions to avoid** Heat. Direct sunlight.

**Incompatible materials** Strong oxidizing agents.

**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)** 1,092.40 mg/kg

**Unknown acute toxicity**

27.70836 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

**Numerical measures of toxicity - Component Information**

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---|---|---|---|
| Vinyl acetate | = 2900 mg/kg ( Rat ) | = 2335 mg/kg ( Rabbit ) | = 3680 ppm ( Rat ) 4 h |
| Titanium dioxide (IV) | > 10000 mg/kg ( Rat ) | - | = 5.09 mg/L ( Rat ) 4 h |
| Methyl alcohol | = 6200 mg/kg ( Rat ) | = 15840 mg/kg ( Rabbit ) | = 22500 ppm ( Rat ) 8 h |

*Abbreviations and acronyms*

*Rat: Rat*

*Rabbit: Rabbit*

**Symptoms** May cause redness and tearing of the eyes. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

**Product Information**

**Ingestion** Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Harmful if swallowed. (based on components).

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

**Skin contact** Specific test data for the substance or mixture is not available. 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.

**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 |
|---|---|---|
| Vinyl acetate<br>108-05-4 | 1B | Group 2B |
| Titanium dioxide (IV)<br>13463-67-7 | 2 | Group 2B |

**Legend**

**IARC (International Agency for Research on Cancer)**
Group 1 - Carcinogenic to Humans
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.

**STOT - single exposure** The following hazardous substance is 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. Silica. Based on the classification criteria of the Globally Harmonized System as adopted in the country or region with which this safety data sheet complies, this product has been determined to cause systemic target organ toxicity from acute exposure. (STOT SE). Causes damage to organs if swallowed. May cause respiratory irritation. May cause drowsiness or dizziness.

Causes damage to the following organs: Respiratory system, Central nervous system, visual organs, systemic toxicity.

**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. Causes damage to organs through prolonged or repeated exposure.

Causes damage to the following organs through prolonged or repeated exposure: Respiratory system, Central nervous system, visual organs.

## 12. Ecological information

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

| Chemical name | Algae/aquatic plants | Fish | Crustacea |
|---|---|---|---|
| Vinyl acetate | - | LC50: =14mg/L (96h, Pimephales promelas)<br>LC50: 15.04 - 21.54mg/L (96h, Lepomis macrochirus)<br>LC50: 26.1 - 36.63mg/L (96h, Poecilia reticulata) | - |
| Methyl alcohol | - | LC50: =28200mg/L (96h, Pimephales promelas)<br>LC50: >100mg/L (96h, Pimephales promelas)<br>LC50: 19500 - 20700mg/L (96h, Oncorhynchus mykiss)<br>LC50: 18 - 20mL/L (96h, Oncorhynchus mykiss)<br>LC50: 13500 - 17600mg/L (96h, Lepomis macrochirus) | - |

**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**

**Component Information**

| Chemical name | Partition coefficient |
|---|---|
| Vinyl acetate<br>108-05-4 | 0.73 |
| Methyl alcohol<br>67-56-1 | -0.77 |

**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

**IMDG**

| | |
|---|---|
| **UN number or ID number** | UN1133 |
| **UN proper shipping name** | Adhesives |
| **Description** | UN1133, Adhesives, 3, II, (9.2°C c.c.) |
| **Transport hazard class(es)** | 3 |
| **Packing group** | II |
| **Marine pollutant** | NP |
| **EmS-No.** | F-E, S-D |

**ADR**

| | |
|---|---|
| **UN number or ID number** | UN1133 |
| **UN proper shipping name** | Adhesives |
| **Description** | UN1133, Adhesives, 3, II, (D/E) |
| **Transport hazard class(es)** | 3 |
| **Packing group** | II |
| **ERG Code** | 3L |
| **Special Provisions** | 640C |

**IATA**

| | |
|---|---|
| **UN number or ID number** | UN1133 |
| **UN proper shipping name** | Adhesives |
| **Description** | UN1133, Adhesives, 3, II |
| **Transport hazard class(es)** | 3 |
| **Packing group** | II |
| **Special Provisions** | A3 |

**Japan**

| | |
|---|---|
| **UN number or ID number** | UN1133 |
| **UN proper shipping name** | Adhesives |
| **Description** | UN1133, Adhesives, 3, II |
| **Transport hazard class(es)** | 3 |
| **Packing group** | II |

## 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

**Harmful Substances Requiring Workers to Subject to Medical Exams**

Medical Examination - Industrial Safety and Health Law article 66, enforcement order article 22, and the Ordinance on Prevention of Hazards Due to Specified Chemical Substances, Table 5

**Ordinance on Prevention of Organic Solvent Poisoning**
Organic solvents class 2 - Industrial Safety and Health Law enforcement order Table 6-2 (related to article 6, article 21, article 22, and the Ordinance on Prevention of Organic Solvent Poisoning)
**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
**Strong mutagenic chemical substances**
New chemical substances with mutagenicity recognized (Article 57-3, Paragraph 1 of the Industrial Safety and Health Law).
**Carcinogenic substances**
Chemical substances specified by the Minister of Health, Labor and Welfare based on the provisions of Article 577-2, Paragraph 3 of the Ordinance on Industrial Safety and Health

| Chemical name | CAS No. |
|---|---|
| Vinyl acetate | 108-05-4 |

**Poisonous and Deleterious Substances Control Law**
Not applicable
**Explosives Control Law**
No
**High Pressure Gas Safety Act**
Not applicable
**Fire Service Law:**
Flammable liquids, group 4, 1st class petroleums, water-insoluble, hazard rank II, 200 liters
**Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. (CSCL)**
The table below indicates ingredients above the cut-off threshold considered as relevant which are listed

| Chemical name | CAS No. | Chemical Substances Control Law |
|---|---|---|
| Vinyl acetate | 108-05-4 | Priority assessment chemical substance |

**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

**Issuing Date** 09-Apr-2021
**Revision date** 08-Nov-2023

**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.