# Franklin International

## Safety Data Sheet

### **Titebond 991 PROvantage Wood Flooring Adhesive**

### **Section 1. Identification**

GHS product identifier : Titebond 991 PROvantage Wood Flooring Adhesive

Physical state : Liquid.

Address : Franklin International

2020 Bruck Street Columbus OH 43207

Contact person : Franklin Technical Services

**Telephone** : (800) 877-4583 **In case of emergency** : Franklin Security

(614) 445-1300

e-mail address of person responsible for this SDS

: SDS@FranklinInternational.com

Reference number : 3713
Product code : 8179
Date of revision : 8/8/2025

Safety Data Sheets are

available online at

: www.FranklinInternational.com

**Chemtrec (24 Hour)** : (800) 424 - 9300 **Chemtrec International** : +1 703-741-5970

Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** 

Adhesive.

**Uses advised against** 

Not applicable.

### Section 2. Hazards identification

**OSHA/HCS status** 

: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture

: FLAMMABLE LIQUIDS - Category 2
EYE IRRITATION - Category 2A
SKIN SENSITIZATION - Category 1
CARCINOGENICITY - Category 2

TOXIC TO REPRODUCTION - Category 2

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -

Category 3

**GHS label elements** 

Hazard pictograms







Signal word : Danger

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### Section 2. Hazards identification

**Hazard statements** 

: Highly flammable liquid and vapor.

May cause an allergic skin reaction.

Causes serious eye irritation.

May cause drowsiness or dizziness.

Suspected of causing cancer.

Suspected of damaging fertility or the unborn child.

### **Precautionary statements**

**Prevention** 

: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Use only outdoors or in a well-ventilated area. Avoid breathing vapor. Wash thoroughly after handling.

Response

: IF exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. If skin irritation or rash occurs: Get medical advice or attention. Wash contaminated clothing before reuse. IF IN 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 or attention.

**Storage** 

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

cool.

**Disposal** 

: Dispose of contents and container in accordance with all local, regional, national and

international regulations.

Supplemental label elements

: Avoid contact with skin and clothing. Wash thoroughly after handling.

Hazards not otherwise classified

: Prolonged or repeated contact may dry skin and cause irritation.

### Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Other means of identification

: Not available.

Ingredient name	%	Identifiers
methyl acetate	≥10 - ≤25	CAS: 79-20-9
acetone	≤5	CAS: 67-64-1
4-chloro-α,α,α-trifluorotoluene	≤5	CAS: 98-56-6
vinyl acetate	≤0.3	CAS: 108-05-4

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

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### Section 4. First aid measures

### **Description of necessary first aid measures**

### **Eye contact**

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

#### Inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

#### Skin contact

: Wash skin thoroughly with soap and water or use recognized skin cleanser. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

### Ingestion

: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

#### Most important symptoms/effects, acute and delayed

### Potential acute health effects

Eye contact : Cause

: Causes serious eye irritation.

Inhalation

: Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.

Skin contact

: Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin reaction.

Ingestion

: Can cause central nervous system (CNS) depression.

#### Over-exposure signs/symptoms

Eye contact

: Adverse symptoms may include the following: pain or irritation

watering redness

Inhalation

: Adverse symptoms may include the following:

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations

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### Section 4. First aid measures

**Skin contact**: Adverse symptoms may include the following:

irritation redness dryness cracking

reduced fetal weight increase in fetal deaths skeletal malformations

**Ingestion**: Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

#### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician

: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments** 

: No specific treatment.

**Protection of first-aiders** 

: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

### Section 5. Fire-fighting measures

#### **Extinguishing media**

Suitable extinguishing

media

: Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

Unsuitable extinguishing

media

: Do not use water jet.

Specific hazards arising from the chemical

: Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.

Hazardous thermal decomposition products

: Decomposition products may include the following materials: carbon dioxide

carbon monoxide halogenated compounds

carbonyl halides

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

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### Section 6. Accidental release measures

For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".

### **Environmental precautions**

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and materials for containment and cleaning up

### Small spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

#### Large spill

Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

### Section 7. Handling and storage

### Precautions for safe handling

#### **Protective measures**

: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

### Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

### Conditions for safe storage, including any incompatibilities

Store between the following temperatures: -17 to 40°C (1.4 to 104°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

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## Section 8. Exposure controls/personal protection

### **Control parameters**

### Occupational exposure limits

Ingredient name	Exposure limits
methyl acetate	NIOSH REL (United States, 10/2020)  TWA 10 hours: 200 ppm.  TWA 10 hours: 610 mg/m³.  STEL 15 minutes: 250 ppm.  STEL 15 minutes: 760 mg/m³.  CAL OSHA PEL (United States, 1/2025)  STEL 15 minutes: 760 mg/m³.  STEL 15 minutes: 250 ppm.  TWA 8 hours: 610 mg/m³.  TWA 8 hours: 200 ppm.  OSHA PEL (United States, 5/2018)  TWA 8 hours: 200 ppm.  TWA 8 hours: 610 mg/m³.  OSHA PEL 1989 (United States, 3/1989)  TWA 8 hours: 200 ppm.  TWA 8 hours: 200 ppm.  STEL 15 minutes: 250 ppm.  STEL 15 minutes: 250 ppm.  STEL 15 minutes: 760 mg/m³.  ACGIH TLV (United States, 1/2025)  TWA 8 hours: 606 mg/m³.  STEL 15 minutes: 250 ppm.  TWA 8 hours: 606 mg/m³.  STEL 15 minutes: 250 ppm.
acetone	NIOSH REL (United States, 10/2020) TWA 10 hours: 250 ppm. TWA 10 hours: 590 mg/m³.  CAL OSHA PEL (United States, 1/2025) STEL 15 minutes: 1780 mg/m³. STEL 15 minutes: 750 ppm. C: 3000 ppm. TWA 8 hours: 1200 mg/m³. TWA 8 hours: 500 ppm. OSHA PEL (United States, 5/2018) TWA 8 hours: 1000 ppm. TWA 8 hours: 2400 mg/m³. OSHA PEL 1989 (United States, 3/1989) TWA 8 hours: 750 ppm. TWA 8 hours: 1800 mg/m³. STEL 15 minutes: 1000 ppm. STEL 15 minutes: 2400 mg/m³. ACGIH TLV (United States, 1/2025) A4. TWA 8 hours: 250 ppm. STEL 15 minutes: 500 ppm.
4-chloro-α,α,α-trifluorotoluene vinyl acetate	None.  NIOSH REL (United States, 10/2020)  CEIL 15 minutes: 4 ppm.  CEIL 15 minutes: 15 mg/m³.  CAL OSHA PEL (United States, 1/2025)  STEL 15 minutes: 45 mg/m³.  STEL 15 minutes: 15 ppm.  TWA 8 hours: 30 mg/m³.  TWA 8 hours: 10 ppm.

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### Section 8. Exposure controls/personal protection

OSHA PEL 1989 (United States, 3/1989)
TWA 8 hours: 10 ppm.
TWA 8 hours: 30 mg/m³.
STEL 15 minutes: 20 ppm.
STEL 15 minutes: 60 mg/m³.
ACGIH TLV (United States, 1/2025) A3.
TWA 8 hours: 10 ppm.
TWA 8 hours: 35 mg/m³.
STEL 15 minutes: 15 ppm.

STEL 15 minutes: 53 mg/m<sup>3</sup>.

### **Biological exposure indices**

Ingredient name	Exposure indices
	ACGIH BEI (United States, 1/2025) BEI: 25 mg/l, acetone [in urine]. Sampling time: end of shift.

## Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

## **Environmental exposure** controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### Individual protection measures

#### **Hygiene measures**

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### Eye/face protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

### Skin protection

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

### **Body protection**

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear antistatic protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

### Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

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### Section 8. Exposure controls/personal protection

**Respiratory protection** 

: If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

### Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

**Appearance** 

**Physical state** : Liquid. [Paste.]

Color : Beige.

Odor : Solvent(s) [Strong]

Not available. **Odor threshold** 

pΗ : Not applicable.

Melting point/freezing point : Not available.

: 54.444°C (130°F) **Boiling point or initial** 

boiling point and boiling

range

: Closed cup: -13°C (8.6°F) [Setaflash] Flash point

**Evaporation rate** : >1 (butyl acetate = 1)

: Highly flammable in the presence of the following materials or conditions: open **Flammability** 

flames, sparks and static discharge and heat.

Lower and upper explosion

limit/flammability limit

exempt solvents)

: Not available.

**VOC (less water, less** : 13.04 g/l

Vapor pressure

	Vapor Pressure at 20°C			Va	por pressur	e at 50°C
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
acetone	180.01463	24				

Relative vapor density : Not available.

**Relative density** : 1.2716

Solubility(ies)

Media	Result
cold water	Not soluble
hot water	Not soluble

Solubility in water : Not available. Partition coefficient: n-: Not applicable.

octanol/water

**Auto-ignition temperature** 

Ingredient name	°C	°F	Method
methyl acetate	454	849.2	

**Decomposition temperature**: Not available.

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### Section 9. Physical and chemical properties

: Dynamic (room temperature): Not available. **Viscosity** 

Kinematic (room temperature): Not available. Kinematic (40°C (104°F)): Not available.

### Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability** The product is stable.

**Possibility of hazardous** : Under normal conditions of storage and use, hazardous reactions will not occur. reactions

Conditions to avoid : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld,

braze, solder, drill, grind or expose containers to heat or sources of ignition.

Incompatible materials : Reactive or incompatible with the following materials:

oxidizing materials

**Hazardous decomposition** Under normal conditions of storage and use, hazardous decomposition products should

not be produced.

### Section 11. Toxicological information

### Information on toxicological effects

**Acute toxicity** 

products

**Product/ingredient name** Result

methyl acetate Rat - Oral - LD50

>5 g/kg

Rabbit - Dermal - LD50

>5 a/ka

Rat - Oral - LD50 acetone

5800 mg/kg

Toxic effects: Behavioral - Altered sleep time (including change in

righting reflex) Behavioral - Tremor

4-chloro-α,α,α-trifluorotoluene Rat - Oral - LD50

13 g/kg

Rat - Oral - LD50 vinyl acetate

2900 mg/kg

Rabbit - Dermal - LD50

2335 mg/kg

Rat - Inhalation - LC50 Vapor

11400 mg/m<sup>3</sup> [4 hours]

**Conclusion/Summary [Product]** : Not available.

Skin corrosion/irritation

Product/ingredient name Result

methyl acetate Rabbit - Skin - Mild irritant

> Duration of treatment/exposure: 24 hours Amount/concentration applied: 500 mg Rabbit - Skin - Moderate irritant Duration of treatment/exposure: 24 hours

Amount/concentration applied: 20 mg

Rabbit - Skin - Mild irritant acetone

> **Duration of treatment/exposure**: 24 hours Amount/concentration applied: 500 mg

Rabbit - Skin - Mild irritant

Amount/concentration applied: 395 mg

: Prolonged or repeated contact can defat the skin and lead to irritation, **Conclusion/Summary [Product]** cracking and/or dermatitis.

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### **Section 11. Toxicological information**

Serious eye damage/eye irritation

Product/ingredient name Result

methyl acetate Rabbit - Eyes - Moderate irritant

<u>Duration of treatment/exposure</u>: 24 hours <u>Amount/concentration applied</u>: 100 mg

acetone Human - Eyes - Mild irritant

Amount/concentration applied: 186300 ppm

Rabbit - Eyes - Mild irritant

Amount/concentration applied: 10 uL

Rabbit - Eyes - Moderate irritant

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 20 mg

Rabbit - Eyes - Severe irritant
Amount/concentration applied: 20 mg

**Conclusion/Summary [Product]**: This product may irritate eyes upon contact.

: Not available.

: Not available.

**Respiratory corrosion/irritation** 

Not available.

**Conclusion/Summary [Product]** : High vapor concentrations can cause headaches, dizziness, drowsiness and

nausea and may lead to unconsciousness.

Respiratory or skin sensitization

Not available.

Skin

**Conclusion/Summary [Product]** : Not available.

Respiratory

**Conclusion/Summary [Product]** 

**Germ cell mutagenicity** 

Not available.

aall mustamaniaitus

**Conclusion/Summary [Product]** 

Carcinogenicity

Not available.

**Conclusion/Summary [Product]**: Not available.

**Classification** 

Product/ingredient name	OSHA	IARC	NTP
4-chloro-α,α,α- trifluorotoluene	-	2B	-
vinyl acetate	-	2B	-

### Reproductive toxicity

Not available.

**Conclusion/Summary [Product]** : Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name Result

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### **Section 11. Toxicological information**

Titebond 991 PROvantage Wood Flooring SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)

Adhesive (Narcotic effects) - Category 3

methyl acetate SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)

(Narcotic effects) - Category 3

acetone SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)

(Narcotic effects) - Category 3

4-chloro-α,α,α-trifluorotoluene SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)

(Respiratory tract irritation) - Category 3

### Specific target organ toxicity (repeated exposure)

Not available.

### **Aspiration hazard**

Not available.

#### Information on the likely routes of exposure

Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

### Potential acute health effects

**Eye contact** : Causes serious eye irritation.

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or

dizziness.

**Skin contact**: Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin

reaction.

Ingestion : Can cause central nervous system (CNS) depression.

#### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact**: Adverse symptoms may include the following:

pain or irritation watering redness

**Inhalation** : Adverse symptoms may include the following:

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations

**Skin contact**: Adverse symptoms may include the following:

irritation redness dryness cracking

reduced fetal weight increase in fetal deaths skeletal malformations

Ingestion : Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

### Delayed and immediate effects and also chronic effects from short and long term exposure

**Short term exposure** 

Potential immediate

effects

: Not available.

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### **Section 11. Toxicological information**

Potential delayed effects : Not available.

Long term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

### Potential chronic health effects

Not available.

Not available.

**Conclusion/Summary [Product]**: Not available.

General: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or

dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently

exposed to very low levels.

**Carcinogenicity** : Suspected of causing cancer. Risk of cancer depends on duration and level of

exposure.

Mutagenicity : No known significant effects or critical hazards.Reproductive toxicity : Suspected of damaging fertility or the unborn child.

### **Numerical measures of toxicity**

### **Acute toxicity estimates**

Product/ingredient name	( 3	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
acetone	5800	N/A	N/A	N/A	N/A
4-chloro-α,α,α-trifluorotoluene	13000	N/A	N/A		N/A
vinyl acetate	2900	2335	N/A		N/A

### Section 12. Ecological information

### **Toxicity**

Product/ingredient name Result

methyl acetate Acute - LC50 - Fresh water

Fish - Fathead minnow - *Pimephales promelas* Age: 28 to 32 days; <u>Size</u>: 17.5 mm; <u>Weight</u>: 0.087 g

320 mg/l [96 hours]

acetone Effect: Mortality

Acute - LC50 - F

Acute - LC50 - Fresh water

Daphnia - Water flea - Daphnia magna

10 mg/l [48 hours] Effect: Mortality

Acute - EC50 - Marine water

Algae - Green algae - Ulva pertusa

20.565 mg/l [96 hours] Effect: Reproduction

Chronic - NOEC - Marine water Algae - Green algae - *Ulva pertusa* 

4.95 mg/l [96 hours] Effect: Reproduction

Crustagans Danhnia Danhniida

Crustaceans - Daphnia - Daphniidae

0.016 ml/l [21 days] Effect: Population

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### **Section 12. Ecological information**

### **Chronic - NOEC - Marine water**

Fish - Threespine stickleback - Gasterosteus aculeatus - Larvae

Age: 7 days 5 μg/l [42 days] Effect: Growth

Acute - LC50 - Fresh water Fish - Guppy - Poecilia reticulata

Age: 4 to 12 months; Size: 2 to 10 cm; Weight: 0.5 to 14 g

5600 ppm [96 hours] Effect: Mortality

Acute - LC50 - Fresh water

Fish - Fathead minnow - Pimephales promelas

Age: 1 days 14 mg/l [96 hours] Effect: Mortality Acute - EC50

Daphnia

: Not available.

12.6 mg/l [48 hours]

Acute - EC50

Algae - Pseudokirchnerella subcapitata

8.81 mg/l [96 hours] <u>Effect</u>: (growth rate) **Chronic - NOEC** 

Algae - Pseudokirchnerella subcapitata

1.58 mg/l [96 hours]

**Conclusion/Summary [Product]** 

Persistence and degradability

Not available.

vinyl acetate

**Conclusion/Summary [Product]**: Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
vinyl acetate	-	-	Readily

### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
methyl acetate	0.18	-	Low
acetone	-0.23	-	Low
vinyl acetate	0.73	3.16	Low

### **Mobility in soil**

Soil/Water partition coefficient

: Not available.

Other adverse effects

No known significant effects or critical hazards.

### Section 13. Disposal considerations

### **Disposal methods**

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a

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### Section 13. Disposal considerations

safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

### RCRA Toxic hazardous waste "U" List

Ingredient	CAS#		Reference number
Acetone (I)	-	Listed	U002

## **Section 14. Transport information**

	DOT Classification	TDG Classification	Mexico Classification	ADR/RID	IMDG	IATA
UN number	UN1133	UN1133	UN1133	UN1133	UN1133	UN1133
UN proper shipping name	ADHESIVES, containing flammable liquid	ADHESIVES, containing flammable liquid	ADHESIVES, containing flammable liquid	ADHESIVES, containing flammable liquid	ADHESIVES, containing flammable liquid	ADHESIVES, containing flammable liquid
Transport hazard class(es)	3 TANMART JOHN	3	3	3	3	3
Packing group	II	II	II	11	11	II
Environmental hazards	No.	No.	No.	No.	No.	No.

### **Additional information**

TDG Classification : Product classified as per the following sections of the Transportation of Dangerous

Goods Regulations: 2.18-2.19 (Class 3).

ADR/RID : Special provisions 640 (C)

Tunnel code (D/E)

### Section 15. Regulatory information

### U.S. Federal regulations

### **SARA 302/304**

#### **Composition/information on ingredients**

			SARA 302 TPQ		SARA 304 RQ	
Name	%	EHS	(lbs)	(gallons)	(lbs)	(gallons)
vinyl acetate	≤0.3	Yes.	1000	129	5000	644.8

SARA 304 RQ : 2252420.2 lbs / 1022598.8 kg [212442.6 gal / 804182.7 L]

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### Section 15. Regulatory information

### **SARA 311/312**

Classification : FLAMMABLE LIQUIDS - Category 2

EYE IRRITATION - Category 2A
SKIN SENSITIZATION - Category 1
CARCINOGENICITY - Category 2

TOXIC TO REPRODUCTION - Category 2

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -

Category 3

HNOC - Defatting irritant

### **Composition/information on ingredients**

Name	%	Classification
methyl acetate	≥10 - ≤25	FLAMMABLE LIQUIDS - Category 2
		EYE IRRITATION - Category 2A
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Narcotic effects) - Category 3
acetone	≤5	FLAMMABLE LIQUIDS - Category 2
		EYE IRRITATION - Category 2A
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Narcotic effects) - Category 3
4-chloro-α,α,α-trifluorotoluene	≤5	FLAMMABLE LIQUIDS - Category 3
		SKIN IRRITATION - Category 2
		EYE IRRITATION - Category 2A
		SKIN SENSITIZATION - Category 1B
		CARCINOGENICITY - Category 2
		TOXIC TO REPRODUCTION - Category 2
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Respiratory tract irritation) - Category 3
vinyl acetate	≤0.3	FLAMMABLE LIQUIDS - Category 2
		CARCINOGENICITY - Category 2

#### **SARA 313**

	Product name	CAS number	%
Form R - Reporting requirements	vinyl acetate	108-05-4	≤0.3
Supplier notification	vinyl acetate	108-05-4	≤0.3

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

#### State regulations

Massachusetts : The following components are listed: METHYL ACETATE; ACETONE

New York : The following components are listed: Acetone

New Jersey : The following components are listed: METHYL ACETATE; ACETONE; METHYL

ALCOHOL: VINYL ACETATE

Pennsylvania: The following components are listed: ACETIC ACID, METHYL ESTER; 2-PROPANONE

### California Prop. 65

A WARNING T

**WARNING**: This product can expose you to chemicals including p-chloro-α,α,α-trifluorotoluene and vinyl acetate, which are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

		Maximum acceptable dosage level
p-chloro-α,α,α-trifluorotoluene vinyl acetate	Yes. -	-

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### **Section 15. Regulatory information**

### International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

**Montreal Protocol** 

Not listed.

**Stockholm Convention on Persistent Organic Pollutants** 

Not listed.

**UNECE Aarhus Protocol on POPs and Heavy Metals** 

Not listed.

**Inventory list** 

China : All components are listed or exempted. **United States TSCA 8(b)** : All components are active or exempted.

inventory

### Section 16. Other information

#### Procedure used to derive the classification

Classification	Justification
FLAMMABLE LIQUIDS - Category 2	Expert judgment
EYE IRRITATION - Category 2A	Expert judgment
SKIN SENSITIZATION - Category 1	Expert judgment
CARCINOGENICITY - Category 2	Expert judgment
TOXIC TO REPRODUCTION - Category 2	Expert judgment
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -	Expert judgment
Category 3	

### **History**

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Key to abbreviations : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973

as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

: Not available. References

Indicates information that has changed from previously issued version.

**Notice to reader** 

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### Section 16. Other information

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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