

# Franklin International

## Safety Data Sheet

### Titebond 991 PROvantage Wood Flooring Adhesive

#### Section 1. Identification

|  |  |
|--|--|
| <b>GHS product identifier</b>                            | : Titebond 991 PROvantage Wood Flooring Adhesive                   |
| <b>Physical state</b>                                    | : Liquid.  |
| <b>CAS #</b>   | : mixture  |
| <b>Address</b>   | : Franklin International<br>2020 Bruck Street<br>Columbus OH 43207 |
| <b>Contact person</b>                                    | : Franklin Technical Services                                      |
| <b>Telephone</b>   | : (800) 877-4583   |
| <b><u>In case of emergency</u></b>                       | : Franklin Security<br>(614) 445-1300                              |
| <b>e-mail address of person responsible for this SDS</b> | : SDS@FranklinInternational.com                                    |
| <b>Reference number</b>                                  | : 3713   |
| <b>Product code</b>                                      | : 8179   |
| <b>Date of revision</b>                                  | : 8/5/2020   |
| <b>Safety Data Sheets are available online at</b>        | : www.FranklinInternational.com                                    |
| <b>Chemtrec (24 Hour)</b>                                | : (800) 424 - 9300   |
| <b>Chemtrec International</b>                            | : +1 703-741-5970  |

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

Not applicable.

#### Section 2. Hazards identification

|   |   |
|---|---|
| <b>OSHA/HCS status</b>                            | : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).   |
| <b>Classification of the substance or mixture</b> | : FLAMMABLE LIQUIDS - Category 2<br>EYE IRRITATION - Category 2A<br>CARCINOGENICITY - Category 2<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 |

#### **GHS label elements**

##### **Hazard pictograms**



##### **Signal word**

: Danger

## Section 2. Hazards identification

- Hazard statements** : Highly flammable liquid and vapor.  
Causes serious eye irritation.  
May cause respiratory irritation.  
May cause drowsiness or dizziness.  
Suspected of causing cancer. (inhalation)  
Causes damage to organs. (eyes) (oral)
- Precautionary statements**
- Prevention** : Obtain special instructions before use. Wear protective gloves. Wear protective clothing. Wear 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. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.
- Response** : IF exposed: Call a POISON CENTER or doctor. 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

| Ingredient name                                    | %         | CAS number |
|--|-----------|------------|
| methyl acetate                                     | ≥10 - ≤25 | 79-20-9    |
| acetone  | ≤5        | 67-64-1    |
| 4-chloro- $\alpha,\alpha,\alpha$ -trifluorotoluene | ≤5        | 98-56-6    |
| vinyl acetate                                      | ≤0.3      | 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 as hazardous to health or the environment and hence require reporting in this section.**

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

## 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. If necessary, call a poison center or physician.
- 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.

## Section 4. First aid measures

- Skin contact** : Wash skin thoroughly with soap and water or use recognized skin cleanser. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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** : Causes serious eye irritation.
- Inhalation** : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
- Skin contact** : Defatting to the skin. May cause skin dryness and irritation.
- Ingestion** : Causes damage to organs following a single exposure if swallowed. 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:  
respiratory tract irritation  
coughing  
nausea or vomiting  
headache  
drowsiness/fatigue  
dizziness/vertigo  
unconsciousness
- Skin contact** : Adverse symptoms may include the following:  
irritation  
dryness  
cracking
- Ingestion** : No specific data.

### 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.

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.
- 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 non-emergency 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. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry 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. 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 (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

### Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. 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.

## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

| Ingredient name | Exposure limits  |
|-----------------|--|
| methyl acetate  | <p><b>ACGIH TLV (United States, 3/2019).</b><br/>           TWA: 200 ppm 8 hours.<br/>           TWA: 606 mg/m<sup>3</sup> 8 hours.<br/>           STEL: 250 ppm 15 minutes.<br/>           STEL: 757 mg/m<sup>3</sup> 15 minutes.</p> <p><b>OSHA PEL 1989 (United States, 3/1989).</b><br/>           TWA: 200 ppm 8 hours.<br/>           TWA: 610 mg/m<sup>3</sup> 8 hours.<br/>           STEL: 250 ppm 15 minutes.<br/>           STEL: 760 mg/m<sup>3</sup> 15 minutes.</p> <p><b>NIOSH REL (United States, 10/2016).</b><br/>           TWA: 200 ppm 10 hours.<br/>           TWA: 610 mg/m<sup>3</sup> 10 hours.<br/>           STEL: 250 ppm 15 minutes.<br/>           STEL: 760 mg/m<sup>3</sup> 15 minutes.</p> <p><b>OSHA PEL (United States, 5/2018).</b><br/>           TWA: 200 ppm 8 hours.<br/>           TWA: 610 mg/m<sup>3</sup> 8 hours.</p> |
| acetone         | <p><b>ACGIH TLV (United States, 3/2019).</b><br/>           TWA: 250 ppm 8 hours.<br/>           STEL: 500 ppm 15 minutes.</p> <p><b>OSHA PEL 1989 (United States, 3/1989).</b><br/>           TWA: 750 ppm 8 hours.<br/>           TWA: 1800 mg/m<sup>3</sup> 8 hours.</p>  |

## Section 8. Exposure controls/personal protection

4-chloro- $\alpha,\alpha,\alpha$ -trifluorotoluene  
vinyl acetate

STEL: 1000 ppm 15 minutes.  
STEL: 2400 mg/m<sup>3</sup> 15 minutes.  
**NIOSH REL (United States, 10/2016).**  
TWA: 250 ppm 10 hours.  
TWA: 590 mg/m<sup>3</sup> 10 hours.  
**OSHA PEL (United States, 5/2018).**  
TWA: 1000 ppm 8 hours.  
TWA: 2400 mg/m<sup>3</sup> 8 hours.  
None.  
**ACGIH TLV (United States, 3/2019).**  
TWA: 10 ppm 8 hours.  
TWA: 35 mg/m<sup>3</sup> 8 hours.  
STEL: 15 ppm 15 minutes.  
STEL: 53 mg/m<sup>3</sup> 15 minutes.  
**OSHA PEL 1989 (United States, 3/1989).**  
TWA: 10 ppm 8 hours.  
TWA: 30 mg/m<sup>3</sup> 8 hours.  
STEL: 20 ppm 15 minutes.  
STEL: 60 mg/m<sup>3</sup> 15 minutes.  
**NIOSH REL (United States, 10/2016).**  
CEIL: 4 ppm 15 minutes.  
CEIL: 15 mg/m<sup>3</sup> 15 minutes.

### 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. 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 anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

## Section 8. Exposure controls/personal protection

- 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.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. 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

### Appearance

- Physical state** : Liquid. [Paste.]
- Color** : Beige.
- Odor** : Solvent(s) [Strong]
- Odor threshold** : Not available.
- pH** : Not applicable.
- Melting point** : Not available.
- Boiling point** : 54.444°C (130°F)
- Flash point** : Closed cup: -13°C (8.6°F) [Setaflash.]
- Evaporation rate** : >1 (butyl acetate = 1)
- Flammability (solid, gas)** : Highly flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and heat.
- Lower and upper explosive (flammable) limits** : Not available.
- VOC (less water, less exempt solvents)** : 8.22 g/l
- Volatility** : 32.86% (w/w)
- Vapor density** : Not available.
- Relative density** : 1.2716
- Solubility** : Insoluble in the following materials: cold water and hot water.
- Solubility in water** : Not available.
- Partition coefficient: n-octanol/water** : Not available.
- Auto-ignition temperature** : Not available.
- Decomposition temperature** : Not available.
- Viscosity** : 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 reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- 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 products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

| Product/ingredient name                            | Result                | Species | Dose                    | Exposure |
|--|-----------------------|---------|-------------------------|----------|
| methyl acetate                                     | LD50 Dermal           | Rabbit  | >5 g/kg                 | -        |
|  | LD50 Oral             | Rat     | >5 g/kg                 | -        |
| acetone  | LD50 Oral             | Rat     | 5800 mg/kg              | -        |
| 4-chloro- $\alpha,\alpha,\alpha$ -trifluorotoluene | LD50 Oral             | Rat     | 13 g/kg                 | -        |
| vinyl acetate                                      | LC50 Inhalation Vapor | Rat     | 11400 mg/m <sup>3</sup> | 4 hours  |
|  | LD50 Dermal           | Rabbit  | 2335 mg/kg              | -        |
|  | LD50 Oral             | Rat     | 2900 mg/kg              | -        |

#### Irritation/Corrosion

| Product/ingredient name | Result                   | Species | Score | Exposure        | Observation |
|-------------------------|--------------------------|---------|-------|-----------------|-------------|
| methyl acetate          | Eyes - Moderate irritant | Rabbit  | -     | 24 hours 100 mg | -           |
|                         | Skin - Mild irritant     | Rabbit  | -     | 24 hours 500 mg | -           |
|                         | Skin - Moderate irritant | Rabbit  | -     | 24 hours 20 mg  | -           |
| acetone                 | Eyes - Mild irritant     | Human   | -     | 186300 ppm      | -           |
|                         | Eyes - Mild irritant     | Rabbit  | -     | 10 UI           | -           |
|                         | Eyes - Moderate irritant | Rabbit  | -     | 24 hours 20 mg  | -           |
|                         | Eyes - Severe irritant   | Rabbit  | -     | 20 mg           | -           |
|                         | Skin - Mild irritant     | Rabbit  | -     | 24 hours 500 mg | -           |
|                         | Skin - Mild irritant     | Rabbit  | -     | 395 mg          | -           |

#### Conclusion/Summary

##### Skin

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

##### Eyes

: This product may irritate eyes upon contact.

##### Respiratory

: High vapor concentrations can cause headaches, dizziness, drowsiness and nausea and may lead to unconsciousness.

#### Sensitization

Not available.

#### Mutagenicity

Not available.

#### Carcinogenicity

Not available.

#### Classification

| Product/ingredient name                            | OSHA | IARC | NTP |
|--|------|------|-----|
| 4-chloro- $\alpha,\alpha,\alpha$ -trifluorotoluene | -    | 2B   | -   |
| vinyl acetate                                      | -    | 2B   | -   |

#### Reproductive toxicity

Not available.

#### Teratogenicity

Not available.

#### Specific target organ toxicity (single exposure)



## Section 11. Toxicological information

| Name   | Category                 | Route of exposure | Target organs                                    |
|--|--------------------------|-------------------|--|
| Titebond 991 PROvantage Wood Flooring Adhesive | Category 1<br>Category 3 | oral              | eyes<br>Respiratory tract irritation             |
| methyl acetate                                 | Category 3<br>Category 3 | -                 | Narcotic effects<br>Respiratory tract irritation |
| acetone  | Category 3               | -                 | Narcotic effects                                 |
| vinyl acetate                                  | Category 3               | -                 | Narcotic effects<br>Respiratory tract irritation |

### 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.

### Potential acute health effects

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

**Inhalation** : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.

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

**Ingestion** : Causes damage to organs following a single exposure if swallowed. 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:  
respiratory tract irritation  
coughing  
nausea or vomiting  
headache  
drowsiness/fatigue  
dizziness/vertigo  
unconsciousness

**Skin contact** : Adverse symptoms may include the following:  
irritation  
dryness  
cracking

**Ingestion** : No specific data.

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

#### Short term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### Long term exposure

**Potential immediate effects** : Not available.

## Section 11. Toxicological information

**Potential delayed effects** : Not available.

### Potential chronic health effects

Not available.

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

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

**Mutagenicity** : No known significant effects or critical hazards.

**Teratogenicity** : No known significant effects or critical hazards.

**Developmental effects** : No known significant effects or critical hazards.

**Fertility effects** : No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

Not available.

## Section 12. Ecological information

### Toxicity

| Product/ingredient name   | Result                                       | Species                                 | Exposure |
|---------------------------|--|---|----------|
| methyl acetate<br>acetone | Acute LC50 320000 µg/l Fresh water           | Fish - Pimephales promelas              | 96 hours |
|                           | Acute EC50 20.565 mg/l Marine water          | Algae - Ulva pertusa                    | 96 hours |
|                           | Acute LC50 4.42589 ml/L Marine water         | Crustaceans - Acartia tonsa - Copepodid | 48 hours |
|                           | Acute LC50 10000 µg/l Fresh water            | Daphnia - Daphnia magna                 | 48 hours |
|                           | Acute LC50 6210000 µg/l Fresh water          | Fish - Pimephales promelas              | 96 hours |
|                           | Chronic NOEC 4.95 mg/l Marine water          | Algae - Ulva pertusa                    | 96 hours |
|                           | Chronic NOEC 0.016 ml/L Fresh water          | Crustaceans - Daphniidae                | 21 days  |
| vinyl acetate             | Chronic NOEC 0.1 ml/L Fresh water            | Daphnia - Daphnia magna - Neonate       | 21 days  |
|                           | Chronic NOEC 5 µg/l Marine water             | Fish - Gasterosteus aculeatus - Larvae  | 42 days  |
|                           | Acute EC50 8.81 mg/l                         | Algae - Pseudokirchnerella subcapitata  | 96 hours |
|                           | Acute EC50 12.6 mg/l                         | Daphnia                                 | 48 hours |
|                           | Acute LC50 10000 to 100000 µg/l Marine water | Crustaceans - Crangon crangon - Larvae  | 48 hours |
|                           | Acute LC50 14000 µg/l Fresh water            | Fish - Pimephales promelas              | 96 hours |
|                           | Chronic NOEC 1.58 mg/l                       | Algae - Pseudokirchnerella subcapitata  | 96 hours |

### Persistence and degradability

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

### Bioaccumulative potential

| Product/ingredient name | LogP <sub>ow</sub> | BCF  | Potential |
|-------------------------|--------------------|------|-----------|
| methyl acetate          | 0.18               | -    | low       |
| acetone                 | -0.23              | 3    | low       |
| vinyl acetate           | 0.73               | 3.16 | low       |

### Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

## Section 12. Ecological information

**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 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.

### United States - RCRA Toxic hazardous waste "U" List

| Ingredient                   | CAS #   | Status | Reference number |
|------------------------------|---------|--------|------------------|
| Acetone (I); 2-Propanone (I) | 67-64-1 | Listed | U002             |

## Section 14. Transport information

|                                   | DOT Classification   | TDG Classification   | Mexico Classification  | ADR/RID   | IMDG   | IATA   |
|-----------------------------------|--|--|--|---|--|--|
| <b>UN number</b>                  | UN1133   | UN1133   | UN1133   | UN1133  | UN1133   | UN1133   |
| <b>UN proper shipping name</b>    | ADHESIVES, containing flammable liquid   | ADHESIVES, containing flammable liquid   | ADHESIVES, containing flammable liquid   | ADHESIVES, containing flammable liquid  | ADHESIVES, containing flammable liquid   | ADHESIVES, containing flammable liquid   |
| <b>Transport hazard class(es)</b> | 3<br> | 3<br> | 3<br> | 3<br> | 3<br> | 3<br> |
| <b>Packing group</b>              | II   | II   | II   | II  | II   | II   |
| <b>Environmental hazards</b>      | No.  | No.  | No.  | No.   | No.  | No.  |

### Additional information

**DOT Classification** : **Special provisions** 383

**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)

**Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

## Section 14. Transport information

## Section 15. Regulatory information

### U.S. Federal regulations

#### SARA 302/304

##### Composition/information on ingredients

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

**SARA 304 RQ** : 2255503.4 lbs / 1023998.6 kg [212733.4 gal / 805283.5 L]

#### SARA 311/312

##### Classification

: FLAMMABLE LIQUIDS - Category 2  
 EYE IRRITATION - Category 2A  
 CARCINOGENICITY - Category 2  
 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1  
 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3  
 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3  
 HNOC - Defatting irritant

##### Composition/information on ingredients

| Name   | %         | Classification   |
|--|-----------|--|
| methlyl acetate                                    | ≥10 - ≤25 | FLAMMABLE LIQUIDS - Category 2<br>EYE IRRITATION - Category 2A<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 |
| acetone  | ≤5        | FLAMMABLE LIQUIDS - Category 2<br>EYE IRRITATION - Category 2A<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3   |
| 4-chloro- $\alpha,\alpha,\alpha$ -trifluorotoluene | ≤5        | CARCINOGENICITY - Category 2   |
| vinyl acetate                                      | ≤0.3      | FLAMMABLE LIQUIDS - Category 2<br>ACUTE TOXICITY (inhalation) - Category 4<br>CARCINOGENICITY - Category 2<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3   |

#### SARA 313

|  | Product name  | CAS number | %    |
|--|---------------|------------|------|
| <b>Form R - Reporting requirements</b> | acetone       | 67-64-1    | ≤5   |
|  | vinyl acetate | 108-05-4   | ≤0.3 |
| <b>Supplier notification</b>           | 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.

## Section 15. Regulatory information

### State regulations

- Massachusetts** : The following components are listed: METHYL ACETATE; ACETONE
- New York** : The following components are listed: Vinyl acetate; Acetone; 2-Propanone
- New Jersey** : The following components are listed: METHYL ACETATE; ACETIC ACID, METHYL ESTER; VINYL ACETATE; ACETIC ACID ETHENYL ESTER; ACETONE; 2-PROPANONE
- Pennsylvania** : The following components are listed: ACETIC ACID, METHYL ESTER; ACETIC ACID ETHENYL ESTER; 2-PROPANONE

### California Prop. 65

**⚠ WARNING:** This product can expose you to chemicals including p-chloro- $\alpha,\alpha,\alpha$ -trifluorotoluene, which is known to the State of California to cause cancer, and Methanol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

| Ingredient name                                    | No significant risk level | Maximum acceptable dosage level |
|--|---------------------------|---------------------------------|
| p-chloro- $\alpha,\alpha,\alpha$ -trifluorotoluene | -                         | -                               |
| Methanol   | -                         | Yes.                            |

### 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) inventory** : All components are active or exempted.

## Section 16. Other information

### Hazardous Material Information System (U.S.A.)

|                  |   |   |
|------------------|---|---|
| Health           | * | 2 |
| Flammability     |   | 3 |
| Physical hazards |   | 0 |
|                  |   |   |

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

### National Fire Protection Association (U.S.A.)

## Section 16. Other information



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

### Procedure used to derive the classification

| Classification   | Justification   |
|--|-----------------|
| FLAMMABLE LIQUIDS - Category 2   | Expert judgment |
| EYE IRRITATION - Category 2A   | Expert judgment |
| CARCINOGENICITY - Category 2   | Expert judgment |
| SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1                                | Expert judgment |
| SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 | Expert judgment |
| SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3             | Expert judgment |

### History

**Date of printing** : 8/5/2020

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**Version** : 1.31

**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

**References** : Not available.

📄 Indicates information that has changed from previously issued version.

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