

Franklin International

Safety Data Sheet

Titebond PROvantage Landscape Adhesive

Section 1. Identification

GHS product identifier : Titebond PROvantage Landscape 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

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Reference number : 3714

Product code : 3121

Date of revision : 3/25/2025

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

Not applicable.

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
CARCINOGENICITY - Category 2
TOXIC TO REPRODUCTION - 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

GHS label elements

Hazard pictograms



Section 2. Hazards identification

- Signal word** : Danger
- 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)
Suspected of damaging fertility or the unborn child. (inhalation)
Causes damage to organs. (eyes) (oral)

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. 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 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 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	≥25 - ≤50	CAS: 79-20-9
n-hexane	≤3	CAS: 110-54-3
methanol	≤3	CAS: 67-56-1
vinyl acetate	≤1	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.

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.
- 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. 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
reduced fetal weight
increase in fetal deaths
skeletal malformations
- Skin contact** : Adverse symptoms may include the following:
irritation
dryness
cracking
- Ingestion** : No specific data.

Section 4. First aid measures

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

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- 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, CO₂, 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
- 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. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Section 6. Accidental release measures

- 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). 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 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>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.</p> <p>CAL OSHA PEL (United States, 5/2018) STEL 15 minutes: 760 mg/m³. STEL 15 minutes: 250 ppm. TWA 8 hours: 610 mg/m³. TWA 8 hours: 200 ppm.</p> <p>OSHA PEL (United States, 5/2018) TWA 8 hours: 200 ppm. TWA 8 hours: 610 mg/m³.</p> <p>OSHA PEL 1989 (United States, 3/1989)</p>

Section 8. Exposure controls/personal protection

n-hexane

TWA 8 hours: 200 ppm.
 TWA 8 hours: 610 mg/m³.
 STEL 15 minutes: 250 ppm.
 STEL 15 minutes: 760 mg/m³.
ACGIH TLV (United States, 1/2024)
 TWA 8 hours: 200 ppm.
 TWA 8 hours: 606 mg/m³.
 STEL 15 minutes: 250 ppm.
 STEL 15 minutes: 757 mg/m³.

NIOSH REL (United States, 10/2020)

TWA 10 hours: 50 ppm.
 TWA 10 hours: 180 mg/m³.

CAL OSHA PEL (United States, 5/2018)

Absorbed through skin.

TWA 8 hours: 180 mg/m³.
 TWA 8 hours: 50 ppm.

OSHA PEL (United States, 5/2018)

TWA 8 hours: 500 ppm.
 TWA 8 hours: 1800 mg/m³.

OSHA PEL 1989 (United States, 3/1989)

TWA 8 hours: 50 ppm.
 TWA 8 hours: 180 mg/m³.

ACGIH TLV (United States, 1/2024)

Absorbed through skin.

TWA 8 hours: 50 ppm.

methanol

NIOSH REL (United States, 10/2020)

Absorbed through skin.

TWA 10 hours: 200 ppm.
 TWA 10 hours: 260 mg/m³.
 STEL 15 minutes: 250 ppm.
 STEL 15 minutes: 325 mg/m³.

CAL OSHA PEL (United States, 5/2018)

Absorbed through skin.

STEL 15 minutes: 325 mg/m³.
 STEL 15 minutes: 250 ppm.
 C: 1000 ppm.

TWA 8 hours: 260 mg/m³.
 TWA 8 hours: 200 ppm.

OSHA PEL (United States, 5/2018)

TWA 8 hours: 200 ppm.
 TWA 8 hours: 260 mg/m³.

OSHA PEL 1989 (United States, 3/1989)

Absorbed through skin.

TWA 8 hours: 200 ppm.
 TWA 8 hours: 260 mg/m³.
 STEL 15 minutes: 250 ppm.
 STEL 15 minutes: 325 mg/m³.

ACGIH TLV (United States, 1/2024)

Absorbed through skin.

TWA 8 hours: 200 ppm.
 TWA 8 hours: 262 mg/m³.
 STEL 15 minutes: 250 ppm.
 STEL 15 minutes: 328 mg/m³.

vinyl acetate


NIOSH REL (United States, 10/2020)

CEIL 15 minutes: 4 ppm.
 CEIL 15 minutes: 15 mg/m³.

Section 8. Exposure controls/personal protection

CAL OSHA PEL (United States, 5/2018)
 STEL 15 minutes: 45 mg/m³.
 STEL 15 minutes: 15 ppm.
 TWA 8 hours: 30 mg/m³.
 TWA 8 hours: 10 ppm.
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, 1/2024) A3.
 TWA 8 hours: 10 ppm.
 TWA 8 hours: 35 mg/m³.
 STEL 15 minutes: 15 ppm.
 STEL 15 minutes: 53 mg/m³.

Biological exposure indices

Ingredient name	Exposure indices
 hexane methanol	ACGIH BEI (United States, 1/2024) BEI: 0.5 mg/l, 2,5-hexanedion [in urine]. Sampling time: end of shift. ACGIH BEI (United States, 1/2024) BEI: 15 mg/l, methanol [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. 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.

Section 8. Exposure controls/personal protection

- 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.
- 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** : 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]
- Odor threshold** : Not available.
- pH** : Not available.
- Melting point/freezing point** : Not available.
- Boiling point or initial boiling point and boiling range** : 54.44°C (130°F)
- Flash point** : Closed cup: -13°C (8.6°F) [Setaflash]
- Evaporation rate** : >1 (butyl acetate = 1)
- Flammability** : Flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and heat.
- Lower and upper explosion limit/flammability limit** : Not available.
- VOC (less water, less exempt solvents)** : 33.62 g/l
- Vapor pressure** :

Ingredient name	Vapor Pressure at 20°C			Vapor pressure at 50°C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
methyl acetate	171.01454	22.8		590.30018	78.7	

- Relative vapor density** : Not available.
- Relative density** : 1.21353
- Solubility(ies)** :

Media	Result
cold water	Not soluble
hot water	Not soluble

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

Section 9. Physical and chemical properties

Auto-ignition temperature :

Ingredient name	°C	°F	Method
n-hexane	225	437	

Decomposition temperature : Not available.

Viscosity : Dynamic (room temperature): Not available.
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 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

methyl acetate

Rat - Oral - LD50

>5 g/kg

Rabbit - Dermal - LD50

>5 g/kg

n-hexane

Rat - Oral - LD50

15840 mg/kg

Rat - Inhalation - LC50 Gas.

48000 ppm [4 hours]

methanol

Rabbit - Dermal - LD50

15800 mg/kg

Rat - Oral - LD50

5600 mg/kg

Rat - Inhalation - LC50 Gas.

145000 ppm [1 hours]

Rat - Inhalation - LC50 Gas.

64000 ppm [4 hours]

vinyl acetate

Rat - Oral - LD50

2900 mg/kg

Rabbit - Dermal - LD50

2335 mg/kg

Rat - Inhalation - LC50 Vapor

11400 mg/m³ [4 hours]


Conclusion/Summary [Product] : Not available.

Skin corrosion/irritation

Product/ingredient name

Result

Section 11. Toxicological information

 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

methanol

Rabbit - Skin - Moderate irritant

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 20 mg

Conclusion/Summary [Product]

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

Serious eye damage/eye irritation

Product/ingredient name

Result

 methyl acetate

Rabbit - Eyes - Moderate irritant

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 100 mg

n-hexane

Rabbit - Eyes - Mild irritant

Amount/concentration applied: 10 mg

methanol

Rabbit - Eyes - Moderate irritant

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 100 mg

Rabbit - Eyes - Moderate irritant

Amount/concentration applied: 40 mg

Rabbit - Eyes - Severe irritant

Amount/concentration applied: 0.1 MI

Conclusion/Summary [Product]

: This product may irritate eyes upon contact.

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]

: Not available.

Germ cell mutagenicity

Not available.

Conclusion/Summary [Product]

: Not available.


Carcinogenicity

Not available.

Conclusion/Summary [Product]

: Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
 vinyl acetate	-	2B	-

Reproductive toxicity

Not available.

Section 11. Toxicological information

Conclusion/Summary [Product] : Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name

Titebond PROvantage Landscape Adhesive

Result

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
(eyes) (oral) - Category 1

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
(Respiratory tract irritation) - Category 3

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
(Narcotic effects) - Category 3

n-hexane

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
(Respiratory tract irritation) - Category 3

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
(Narcotic effects) - Category 3

methanol

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) -
Category 1

Specific target organ toxicity (repeated exposure)

Product/ingredient name

n-hexane

Result

SPECIFIC TARGET ORGAN TOXICITY (REPEATED
EXPOSURE) (peripheral nervous system) (inhalation) - Category 1

Aspiration hazard

Product/ingredient name

n-hexane

Result

ASPIRATION HAZARD - Category 1

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. 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
reduced fetal weight
increase in fetal deaths
skeletal malformations

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

Section 11. Toxicological information

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.

Potential delayed effects : Not available.

Potential chronic health effects

Result

Not available.

Result

Not available.

Conclusion/Summary [Product] : 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.

Reproductive toxicity : Suspected of damaging fertility or the unborn child. (inhalation)

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
n-hexane	15840	N/A	48000	N/A	N/A
methanol	500	300	64000	3	N/A
vinyl acetate	2900	2335	N/A	N/A	N/A

Section 12. Ecological information

Toxicity

Product/ingredient name

n-methyl acetate

Result

Acute - LC50 - Fresh water

Fish - Fathead minnow - *Pimephales promelas*
 Age: 28 to 32 days; Size: 17.5 mm; Weight: 0.087 g
 320 mg/l [96 hours]
 Effect: Mortality

Acute - LC50 - Fresh water

Fish - Fathead minnow - *Pimephales promelas*
 Age: 31 days; Size: 20.4 mm; Weight: 0.123 g
 2500 µg/l [96 hours]
 Effect: Mortality

Acute - EC50

Crustaceans
 3.9 mg/l [48 hours]

Acute - EC50

n-hexane

Section 12. Ecological information

methanol	Algae
	0.89 mg/l [96 hours]
	Chronic - NOEC
	Fish - <i>rainbow trout</i>
	2.8 mg/l [28 days]
	Chronic - NOEC
	Crustaceans
	4.9 mg/l [21 days]
	Acute - LC50 - Marine water
	Crustaceans - Common shrimp, sand shrimp - <i>Crangon crangon</i> - Adult
vinyl acetate	2500 mg/l [48 hours]
	Effect: Mortality
	Acute - LC50 - Fresh water
	Fish - Zebra danio - <i>Danio rerio</i> - Egg
	Age: 12
	290 mg/l [96 hours]
	Effect: Mortality
	Acute - EC50 - Marine water
	Algae - Green algae - <i>Ulva pertusa</i>
	16.912 mg/l [96 hours]
	Effect: Reproduction
	Chronic - NOEC - Marine water
	Algae - Green algae - <i>Ulva pertusa</i>
	9.96 mg/l [96 hours]
	Effect: Reproduction
	Acute - LC50 - Fresh water
	Fish - Fathead minnow - <i>Pimephales promelas</i>
	Age: 1 days
	14 mg/l [96 hours]
	Effect: Mortality
	Acute - EC50
	Daphnia
	12.6 mg/l [48 hours]
	Acute - EC50
	Algae - <i>Pseudokirchnerella subcapitata</i>
	8.81 mg/l [96 hours]
	Effect: (growth rate)
	Chronic - NOEC
	Algae - <i>Pseudokirchnerella subcapitata</i>
	1.58 mg/l [96 hours]

Conclusion/Summary [Product] : Not available.

Persistence and degradability

Not available.

Conclusion/Summary [Product] : Not available.

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

Bioaccumulative potential

Section 12. Ecological information

Product/ingredient name	LogP _{ow}	BCF	Potential
Methyl acetate	0.18	-	Low
n-hexane	4	501.187	High
methanol	-0.77	<10	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 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 #	Status	Reference number
Methanol (l)	67-56-1	Listed	U154

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 	3 	3 	3 	3 	3 
Packing group	III	III	III	III	III	III
Environmental hazards	No.	No.	No.	No.	No.	No.

Additional information

Section 14. Transport information

DOT Classification	: Remarks Limited quantity
TDG Classification	: Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.18-2.19 (Class 3). Remarks Limited quantity
Mexico Classification	: Remarks Limited quantity
ADR/RID	: Tunnel code (D/E) Remarks Limited quantity
IMDG	: Remarks Limited quantity

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	≤1	Yes.	1000	129	5000	644.8

SARA 304 RQ : 1342426 lbs / 609461.4 kg [132673 gal / 502222 L]

SARA 311/312

Classification : FLAMMABLE LIQUIDS - Category 2
 EYE IRRITATION - Category 2A
 CARCINOGENICITY - Category 2
 TOXIC TO REPRODUCTION - 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
methyl acetate	≥25 - ≤50	FLAMMABLE LIQUIDS - Category 2 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A
n-hexane	≤3	FLAMMABLE LIQUIDS - Category 2 SKIN IRRITATION - Category 2 TOXIC TO REPRODUCTION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1
methanol	≤3	ASPIRATION HAZARD - Category 1 FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 3 ACUTE TOXICITY (inhalation) - Category 3

Section 15. Regulatory information

vinyl acetate	≤1	EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1 FLAMMABLE LIQUIDS - Category 2 CARCINOGENICITY - Category 2
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SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	n-hexane	110-54-3	≤3
	methanol	67-56-1	≤3
	vinyl acetate	108-05-4	≤1
Supplier notification	n-hexane	110-54-3	≤3
	methanol	67-56-1	≤3
	vinyl acetate	108-05-4	≤1

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; HEXANE; METHANOL
- New York** : The following components are listed: Hexane; Methanol
- New Jersey** : The following components are listed: METHYL ACETATE; n-HEXANE; METHYL ALCOHOL; VINYL ACETATE
- Pennsylvania** : The following components are listed: ACETIC ACID, METHYL ESTER; HEXANE; METHANOL

California Prop. 65

This product does not require a Safe Harbor warning under California Prop. 65.

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

Procedure used to derive the classification

Section 16. Other information

Classification	Justification
FLAMMABLE LIQUIDS - Category 2	Expert judgment
EYE IRRITATION - Category 2A	Expert judgment
CARCINOGENICITY - Category 2	Expert judgment
TOXIC TO REPRODUCTION - 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

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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

References : Not available.

Indicates information that has changed from previously issued version.

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