



# PLANET NAILS DISTRIBUTION PTY LTD

8 Conara Road, Kunda Park, 4556 Queensland Australia.

Phone: (07) 5211 0031 Email: info@planetnails.com.au

## Material Safety Data Sheet

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## SECTION 1. IDENTIFICATION

**Trade Name:** BRUSH CLEANER

**MSDS Number:** 1001774


**Product type:** Liquid

**Company:** Planet Nails Distribution Pty Ltd

**Add:** 8 Conara Road, Kunda Park, 4556 Queensland Australia.

**Issue Date:** 01/02/2022

## 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 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
<b>GHS label elements</b>	
Hazard pictograms	
Signal word	Danger
Hazard statements	Highly flammable liquid and vapor. Causes serious eye irritation. May cause drowsiness and dizziness.
<b>Precautionary statements</b>	
Prevention	Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosionproof electrical, ventilating, lighting and all material-handling equipment. Use only nonsparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Use only outdoors or in a well-ventilated area. Avoid breathing vapor. Wash hands thoroughly after handling.
Response	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. 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 attention.
Storage	Store locked up. Store in a well-ventilated place. Keep cool.



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Disposal	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazards not otherwise classified	None known.

## Section 3. Composition/information on ingredients

Substance/mixture	Mixture
Other means of identification	Not available.

### CAS number/other identifiers

**CAS number:** Not applicable.

Ingredient name	CAS number	INCI Name	%
ethyl acetate	141-78-6	ETHYL ACETATE	50 – 75
Methyl ethyl ketone	78-93-3	MEK	10 – 25
Acetone	67-64-1	ACETONE	1 - 5

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.

**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:** Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. 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



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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 and dizziness.
- Skin contact : No known significant effects or critical hazards.
- 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
- Dizziness/vertigo
- Drowsiness/fatigue
- Unconsciousness

**Skin contact :** No specific data.

**Ingestion :** No specific data.

## 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.

## Section 5. Fire-fighting measures

### Extinguishing media

Suitable extinguishing Media	Use dry chemical, CO., water spray (fog) or foam.
Unsuitable extinguishing Media	Do not use water jet.



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Specific hazards arising from the chemical	Highly flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.
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 specialised 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. 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.



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## Section 7. Handling and storage

### Precautions for safe handling

Protective measures	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. 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: 13 to 29°C (55.4 to 84.2°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.

## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

##### Ingredient name

Ethyl acetate

##### Exposure limits

**ACGIH TLV (United States, 3/2015).**

TWA: 400 ppm 8 hours.

TWA: 1440 mg/m<sup>3</sup> 8 hours.

**OSHA PEL 1989 (United States, 3/1989).**

TWA: 400 ppm 8 hours.

TWA: 1400 mg/m<sup>3</sup> 8 hours.

**NIOSH REL (United States, 10/2013).**

TWA: 400 ppm 10 hours.

TWA: 1400 mg/m<sup>3</sup> 10 hours.

**OSHA PEL (United States, 2/2013).**

TWA: 400 ppm 8 hours.

TWA: 1400 mg/m<sup>3</sup> 8 hours.

Butyl acetate

**OSHA PEL 1989 (United States, 3/1989).**

TWA: 150 ppm 8 hours.

TWA: 710 mg/m<sup>3</sup> 8 hours.



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## Isopropyl alcohol

STEL: 200 ppm 15 minutes.  
STEL: 950 mg/m<sup>3</sup> 15 minutes.  
**NIOSH REL (United States, 10/2013).**  
TWA: 150 ppm 10 hours.  
TWA: 710 mg/m<sup>3</sup> 10 hours.  
STEL: 200 ppm 15 minutes.  
STEL: 950 mg/m<sup>3</sup> 15 minutes.  
**ACGIH TLV (United States, 3/2015).**  
TWA: 150 ppm 8 hours.  
STEL: 200 ppm 15 minutes.  
**OSHA PEL (United States, 2/2013).**  
TWA: 150 ppm 8 hours.  
TWA: 710 mg/m<sup>3</sup> 8 hours.

**ACGIH TLV (United States, 3/2015).**  
TWA: 200 ppm 8 hours.  
STEL: 400 ppm 15 minutes.  
**OSHA PEL 1989 (United States, 3/1989).**  
TWA: 400 ppm 8 hours.  
TWA: 980 mg/m<sup>3</sup> 8 hours.  
STEL: 500 ppm 15 minutes.  
STEL: 1225 mg/m<sup>3</sup> 15 minutes.  
**NIOSH REL (United States, 10/2013).**  
TWA: 400 ppm 10 hours.  
TWA: 980 mg/m<sup>3</sup> 10 hours.  
STEL: 500 ppm 15 minutes.  
STEL: 1225 mg/m<sup>3</sup> 15 minutes.  
**OSHA PEL (United States, 2/2013).**  
TWA: 400 ppm 8 hours.  
TWA: 980 mg/m<sup>3</sup> 8 hours.  
Methyl ethyl ketone **OSHA PEL 1989 (United States, 3/1989).**  
TWA: 200 ppm 8 hours.  
TWA: 590 mg/m<sup>3</sup> 8 hours.  
STEL: 300 ppm 15 minutes.  
STEL: 885 mg/m<sup>3</sup> 15 minutes.  
**ACGIH TLV (United States, 3/2015).**  
TWA: 200 ppm 8 hours.  
TWA: 590 mg/m<sup>3</sup> 8 hours.  
STEL: 300 ppm 15 minutes.  
STEL: 885 mg/m<sup>3</sup> 15 minutes.  
**NIOSH REL (United States, 10/2013).**  
TWA: 200 ppm 10 hours.  
TWA: 590 mg/m<sup>3</sup> 10 hours.  
STEL: 300 ppm 15 minutes.  
STEL: 885 mg/m<sup>3</sup> 15 minutes.  
**OSHA PEL (United States, 2/2013).**  
TWA: 200 ppm 8 hours.  
TWA: 590 mg/m<sup>3</sup> 8 hours.

## Ethyl alcohol

**ACGIH TLV (United States, 3/2015).**  
STEL: 1000 ppm 15 minutes.  
**OSHA PEL 1989 (United States, 3/1989).**  
TWA: 1000 ppm 8 hours.  
TWA: 1900 mg/m<sup>3</sup> 8 hours.  
**NIOSH REL (United States, 10/2013).**  
TWA: 1000 ppm 10 hours.  
TWA: 1900 mg/m<sup>3</sup> 10 hours.  
**OSHA PEL (United States, 2/2013).**





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TWA: 1000 ppm 8 hours.  
TWA: 1900 mg/m<sup>3</sup> 8 hours.

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.
<b>Individual protection measures</b>	
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.
<b>Skin protection</b>	
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.





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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	Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

## Section 9. Physical and chemical properties

### Appearance

Physical state	Liquid. [Clear.]
Color	Colorless
Odor	Pungent, fruity. [Strong]
pH	Not available.
Melting point	Not available.
Boiling point	77°C (170.6°F)
Flash point	Closed cup: 20°C (68°F)
Lower and upper explosive (flammable) limits	Lower: 0.04%
Vapor pressure	Not available.
Vapor density	>1 [Air = 1]
Relative density	Not available.
Solubility	Not available.
Solubility in water	Not available.
Partition coefficient: noctanol/Water	Not available.
Auto-ignition 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. Do not allow vapor to accumulate in low or confined areas.
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.



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## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Ethyl acetate	LD50 Oral	Rat	5620 mg/kg	-
Butyl acetate	LC50 Inhalation Gas.	Rat	390 ppm	4 hours
	LD50 Dermal	Rabbit	>17600 mg/kg	-
Isopropyl alcohol	LD50 Oral	Rat	10768 mg/kg	-
	LD50 Dermal	Rabbit	12800 mg/kg	-
Methyl ethyl ketone	LD50 Oral	Rat	5000 mg/kg	-
	LD50 Dermal	Rabbit	6480 mg/kg	-
Ethyl alcohol	LD50 Oral	Rat	2737 mg/kg	-
	LC50 Inhalation Vapor	Rat	124700 mg/m <sup>3</sup>	4 hours
	LD50 Oral	Rat	7 g/kg	-

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Butyl acetate	Eyes - Moderate irritant	Rabbit	-	100 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 milligrams	-
Isopropyl alcohol	Eyes - Moderate irritant	Rabbit	-	10 milligrams	-
	Eyes - Severe irritant	Rabbit	-	100 milligrams	-
	Skin - Mild irritant	Rabbit	-	500 milligrams	-
Methyl ethyl ketone	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 14 milligrams	-
Ethyl alcohol	Skin - Moderate irritant	Rabbit	-	24 hours 500 milligrams	-
	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
Ethyl alcohol	Eyes - Moderate irritant	Rabbit	-	0.066666667 minutes 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	100 microliters	-
	Eyes - Severe irritant	Rabbit	-	500 milligrams	-
	Skin - Mild irritant	Rabbit	-	400 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-



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## Classification

Product/ingredient name	OSHA	IARC	NTP
Isopropyl alcohol	-	3	-
Ethyl alcohol	-	1	-

## Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Ethyl acetate	Category 3	Not applicable.	Narcotic effects
Butyl acetate	Category 3	Not applicable.	Narcotic effects
Isopropyl alcohol	Category 3	Not applicable.	Narcotic effects
Methyl ethyl ketone	Category 3	Not applicable.	Narcotic effects

## Section 11. Toxicological information

Information on the likely routes of exposure	Not available.
<b>Potential acute health effects</b>	
Eye contact	Causes serious eye irritation.
Inhalation	Can cause central nervous system (CNS) depression. May cause drowsiness and dizziness.
Skin contact	No known significant effects or critical hazards.
Ingestion	Can cause central nervous system (CNS) depression.
<b>Symptoms related to the physical, chemical and toxicological characteristics</b>	
Eye contact	Adverse symptoms may include the following: Pain or irritation Watering Redness
Inhalation	Adverse symptoms may include the following: Nausea or vomiting Headache Dizziness/vertigo Drowsiness/fatigue Unconsciousness
Skin contact	No specific data.
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 Not available

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



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

**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

Route	ATE value
Oral	32480.5 mg/kg

## Section 12. Ecological information

### Toxicity

Product/ingredient name	Result	Species	Exposure	
Ethyl acetate	Acute EC50 2500000 µg/l Fresh water	Algae - Selenastrum sp.	96 hours	
	Acute LC50 750000 µg/l Fresh water	Crustaceans - Gammarus	48 hours	
	Acute LC50 154000 µg/l Fresh water	pulex Daphnia - Daphnia	48 hours	
	Acute LC50 212500 µg/l Fresh water	cucullata Fish -	96 hours	
	Chronic NOEC 2400 µg/l Fresh water	Heteropneustes fossilis	21 days	
	Chronic NOEC 75.6 mg/l Fresh water	Daphnia - Daphnia magna	32 days	
Butyl acetate	Acute LC50 32000 µg/l Marine water	Fish - Pimephales promelas	48 hours	
		-Embryo		
		Crustaceans - Artemia salina		
Isopropyl alcohol	Acute LC50 18000 µg/l Fresh water	-Nauplii	96 hours	
		Fish - Pimephales promelas		
Methyl ethyl ketone	Acute LC50 1400000 µg/l Marine water	Crustaceans - Crangon	48 hours	
		water Acute LC50 4200 mg/l Fresh	crangon Fish - Rasbora	96 hours
		water Acute EC50 >500000 µg/l	heteromorpha Algae -	96 hours
		Marine water Acute EC50 5091000 µg/l Fresh water	Skeletonema costatum	48 hours
Ethyl alcohol	Acute LC50 3220000 µg/l Fresh water	Daphnia - Daphnia magna - Larvae	96 hours	
		Fish - Pimephales promelas		
		Algae - Ulva pertusa		
		Daphnia magna		
	Acute EC50 17.921 mg/l Marine water	Crustaceans - Artemia franciscana - Larvae	96 hours	
		Fresh water Acute EC50 2000 µg/l		
		Daphnia magna		
		Marine water		
Acute LC50 25500 µg/l Marine water	Fish - Oncorhynchus mykiss	4 days		
	Chronic NOEC 4.995 mg/l Marine water			
	Chronic NOEC 0.375 ul/L Fresh water			
	Algae - Ulva pertusa			
Fish - Gambusia holbrooki	-Larvae		96 hours	



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## Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
Ethyl acetate	0.68	30	low
Butyl acetate	2.3	-	low
Isopropyl alcohol	0.05	-	low
Methyl ethyl ketone	0.3	-	low
Ethyl alcohol	-0.35	-	low

## Mobility in soil

<u>Soil/water partition coefficient (KOC)</u>	Not available
<u>Other adverse effects</u>	No known significant effects or critical hazards

## Section 13. Disposal considerations

<u>Disposal methods</u>	<p>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.</p>
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## United States - RCRA Toxic hazardous waste "U" List

Ingredient	CAS #	Status	Referencenumber
Ethyl acetate (I); Acetic acid ethyl ester (I)	141-78-6	Listed	U112
Methyl ethyl ketone	78-93-3	Listed	U159

## Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	ADR/RID	IMDG	IATA
<b>UN number</b>	UN1993	UN1993	UN1993	UN1993	UN1993	UN1993
<b>UN proper shipping name</b>	FLAMMABLE LIQUID, N.O.S. (ethyl acetate, n-butyl acetate)	FLAMMABLE LIQUID, N.O.S. (ethyl acetate, n-butyl acetate)	FLAMMABLE LIQUID, N.O.S. (ethyl acetate, n-butyl acetate)	FLAMMABLE LIQUID, N.O.S. (ethyl acetate, n-butyl acetate)	FLAMMABLE LIQUID, N.O.S. (ethyl acetate, n-butyl acetate)	FLAMMABLE LIQUID, N.O.S. (ethyl acetate, n-butyl acetate)



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<b>Transport hazard class(es)</b>	3 	3 	3 	3 	3 	3 
<b>Packing group</b>	II	II	II	II	II	II
<b>Environmental hazards</b>	No.	No.	No.	No.	No.	No.
<b>Additional information</b>	<p><b>Reportable quantity</b> 8064.5 lbs / 3661.3 kg Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.</p> <p><b>Special provisions</b> T8, T31</p>	Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.18-2.19 (Class 3).	-	<p><b>Special provisions</b> 640 (C)</p> <p><b>Tunnel code</b> (D/E)</p>	-	-

Special precautions for user	<b>Transport within user's premises:</b> 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.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not available.

## Section 15. Regulatory information

U.S. Federal regulations	<b>Clean Water Act (CWA) 311:</b> n-butyl acetate <b>TSCA 8(a) CDR Exempt/Partial exemption:</b> Not determined <b>United States inventory (TSCA 8b):</b> All components are listed or exempted.
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	Not listed
Clean Air Act Section 602 Class I Substances	Not listed
Clean Air Act Section 602 Class II Substances	Not listed
DEA List I Chemicals (Precursor Chemicals)	Not listed



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DEA List II Chemicals (Essential Chemicals)	Listed
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## SARA 302/304

### Composition/information on ingredients

No products were found.

SARA 304 RQ	Not applicable.
<b>SARA 311/312</b>	
Classification	Fire hazard Immediate (acute) health hazard

### Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Ethyl acetate	50 - 75	Yes.	No.	No.	Yes.	No.
Butyl acetate	10 - 25	Yes.	No.	No.	Yes.	No.
Isopropyl alcohol	5 - 10	Yes.	No.	No.	Yes.	No.
Methyl ethyl ketone	1 - 5	Yes.	No.	No.	Yes.	No.
Ethyl alcohol	1 - 5	Yes.	No.	No.	Yes.	No.

### SARA 313

	Product name	CAS number	%
<b>Form R – Reporting requirements</b>	Isopropyl alcohol	67-63-0	5 - 10
<b>Supplier notification</b>	Isopropyl alcohol	67-63-0	5 - 10

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: ETHYL ACETATE; BUTYL ACETATE; ISOPROPYL ALCOHOL; Methyl ethyl ketone; ETHYL ALCOHOL
New York	The following components are listed: Ethyl acetate; Butyl acetate; Methyl ethyl ketone
New Jersey	The following components are listed: ETHYL ACETATE; ACETIC ACID, ETHYL ESTER; n-BUTYL ACETATE; ACETIC ACID, BUTYL ESTER; ISOPROPYL ALCOHOL; 2-PROPANOL; Methyl ethyl ketone; ETHYL ALCOHOL; ALCOHOL
Pennsylvania	The following components are listed: ACETIC ACID ETHYL ESTER; ACETIC ACID, BUTYL ESTER; 2-PROPANOL; Methyl ethyl ketone; DENATURED ALCOHOL





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<b>Canada inventory</b>	All components are listed or exempted.
<b>International regulations</b>	
International lists	<b>Australia inventory (AICS):</b> All components are listed or exempted. <b>China inventory (IECSC):</b> All components are listed or exempted. <b>Japan inventory:</b> All components are listed or exempted. <b>Korea inventory:</b> All components are listed or exempted. <b>Malaysia Inventory (EHS Register):</b> All components are listed or exempted. <b>New Zealand Inventory of Chemicals (NZIoC):</b> All components are listed or exempted. <b>Philippines inventory (PICCS):</b> All components are listed or exempted. <b>Taiwan inventory (CSNN):</b> All components are listed or exempted.

<b>Chemical Weapons Convention List Schedule I Chemicals</b>	Not listed
<b>Chemical Weapons Convention List Schedule II Chemicals</b>	Not listed
<b>Chemical Weapons Convention List Schedule III Chemicals</b>	Not listed

## Section 16. Other information

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

<b>Health</b>	2
<b>Flammability</b>	3
<b>Physical hazards</b>	1
<b>Personal protection</b>	

**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 are not required on SDSs 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 mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

### [National Fire Protection Association \(U.S.A.\)](#)



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and official position of the National Fire Protection Association, on the referenced subject which is represented only by the standard in its entirety.

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.

<b>Date of previous issue</b>	No previous validation
<b>Version</b>	1
<b>Key to abbreviations</b>	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 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations
<b>References</b>	Not available.
<b>Indicates information that has changed from previously issued version.</b>	
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	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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