## **SAFETY DATA SHEET**

C135428

### Section 1. Identification

Product name	: ENVIROVAR™ FF Conversion Varnish Clear Gloss
Product code	: C135428
Other means of identification	: Not available.
Product type Relevant identified uses of th	: Liquid. <u>ne substance or mixture and uses advised against</u>
	ie substance of mixture and uses advised against
Not applicable.	
Manufacturer	: M. L. CAMPBELL 101 Prospect Ave. N.W. Cleveland, OH 44115
Emergency telephone number of the company	: (216) 566-2917
Product Information Telephone Number	: (800) 364-1359
Regulatory Information Telephone Number	: (216) 566-2902
Transportation Emergency Telephone Number	: (800) 424-9300

### Section 2. Hazards identification

OSHA/HCS status	<ul> <li>This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).</li> </ul>
Classification of the substance or mixture	<ul> <li>FLAMMABLE LIQUIDS - Category 2         ACUTE TOXICITY (inhalation) - Category 3         SKIN CORROSION/IRRITATION - Category 2         SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1         CARCINOGENICITY - Category 1A      </li> <li>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract         irritation and Narcotic effects) - Category 3         SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2      </li> <li>Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 29.8%</li> </ul>
GHS label elements	
Hazard pictograms	
Signal word Hazard statements	<ul> <li>Danger</li> <li>Highly flammable liquid and vapor. Toxic if inhaled. Causes serious eye damage. Causes skin irritation.</li> </ul>
	May cause cancer.
	May cause respiratory irritation. May cause drowsiness and dizziness.
	May cause damage to organs through prolonged or repeated exposure.
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### Section 2. Hazards identification

Precautionary statements			
Prevention	tain special instructions before use. Do not handle until all safety precautions have en read and understood. Use personal protective equipment as required. Wear otective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, arks, open flames and other ignition sources. No smoking. Use explosion-proof ectrical, ventilating, lighting and all material-handling equipment. Use only non- arking tools. Take precautionary measures against static discharge. Keep container htly closed. Use only outdoors or in a well-ventilated area. Do not breathe vapor. ash hands thoroughly after handling.		
Response	: Get medical attention if you feel unwell. IF exposed or concerned: Get medical attention. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. If skin irritation occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.		
Storage	: Store locked up. Store in a well-ventilated place. Keep cool.		
Disposal	Dispose of contents and container in accordance with all local, regional, national and international regulations.		
Supplemental label elements	<ul> <li>DANGER: Rags, steel wool, other waste soaked with this product, and sanding residue may spontaneously catch fire if improperly discarded. Immediately place rags, steel wool, other waste soaked with this product, and sanding residue in a sealed, water-filled, metal container. Dispose of in accordance with local fire regulations. DELAYED</li> <li>EFFECTS FROM LONG TERM OVEREXPOSURE. Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. FOR INDUSTRIAL USE ONLY. This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.</li> <li>Please refer to the SDS for additional information. Do not transfer contents to other</li> </ul>		
	containers for storage.		
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**

Ingredient name	% by weight	CAS number	
n-Butyl Acetate	29.8	123-86-4	
1-Butanol	11.6	71-36-3	
Ethanol	6.8	64-17-5	
Ethyl Acetate	6.2	141-78-6	
2-Methyl-1-propanol	3.8	78-83-1	
2-Propanol	1.7	67-63-0	
1-Methoxy-2-propanol	1.6	107-98-2	
Methyl n-Amyl Ketone	1.6	110-43-0	

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.

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## Section 4. First aid measures

Description of necess	sary first aid measures
Eye contact	: Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician.
Inhalation	: Get medical attention immediately. Call a poison center or physician. 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. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	: Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a 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	<u>S</u>
Eye contact	: Causes serious eye damage.
Inhalation	: Toxic if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness and dizziness. May cause respiratory irritation. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Skin contact	: Causes skin irritation.
Ingestion	: Can cause central nervous system (CNS) depression. May cause burns to mouth, throat and stomach.
Over-exposure signs/sympto	<u>oms</u>
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness

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## Section 4. First aid measures

Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains
ndication of immediate me	dical attention and special treatment needed, if necessary
Notes to physician	<ul> <li>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.</li> </ul>
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

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. 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 nitrogen oxides
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, protec	tive equipmer	nt and emergency proc	<u>edures</u>		
For non-emergency personnel	Evacuate s entering. [ No flares, s adequate v	shall be taken involving a surrounding areas. Keep Do not touch or walk thro smoking or flames in haz rentilation. Wear approp iate personal protective of	unnecessary and ur ugh spilled material. ard area. Do not bre riate respirator when	nprotected person Shut off all ignitio eathe vapor or mis	nel from on sources. st. Provide
For emergency responders	Section 8 c	ed clothing is required to on suitable and unsuitable personnel".			
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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 co	ntainment 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 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

<u>Control parameters</u> <u>Occupational exposure limits</u>

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## Section 8. Exposure controls/personal protection

Ingredient name		Exposure limits
n-Butyl Acetate		ACGIH TLV (United States, 4/2014).
,		TWA: 150 ppm 8 hours.
		STEL: 200 ppm 15 minutes.
		NIOSH REL (United States, 10/2013).
		TWA: 150 ppm 10 hours.
		TWA: 710 mg/m³ 10 hours.
		STEL: 200 ppm 15 minutes.
		STEL: 950 mg/m <sup>3</sup> 15 minutes.
		OSHA PEL (United States, 2/2013).
		TWA: 150 ppm 8 hours.
		TWA: 710 mg/m <sup>3</sup> 8 hours.
1-Butanol		ACGIH TLV (United States, 4/2014).
		TWA: 20 ppm 8 hours.
		NIOSH REL (United States, 10/2013).
		Absorbed through skin.
		CEIL: 50 ppm
		CEIL: 150 mg/m <sup>3</sup>
		OSHA PEL (United States, 2/2013).
		TWA: 100 ppm 8 hours. TWA: 300 mg/m³ 8 hours.
Ethanol		ACGIH TLV (United States, 4/2014).
		STEL: 1000 ppm 15 minutes.
		NIOSH REL (United States, 10/2013).
		TWA: 1000 ppm 10 hours.
		TWA: 1900 mg/m <sup><math>3</math></sup> 10 hours.
		OSHA PEL (United States, 2/2013).
		TWA: 1000 ppm 8 hours.
		TWA: 1900 mg/m³ 8 hours.
Ethyl Acetate		ACGIH TLV (United States, 4/2014).
		TWA: 400 ppm 8 hours.
		TWA: 1440 mg/m³ 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.
2 Mathud 1 proposal		TWA: 1400 mg/m <sup>3</sup> 8 hours.
2-Methyl-1-propanol		ACGIH TLV (United States, 4/2014). TWA: 50 ppm 8 hours.
		TWA: 50 ppm 8 hours. TWA: 152 mg/m <sup>3</sup> 8 hours.
		NIOSH REL (United States, 10/2013).
		TWA: 50 ppm 10 hours.
		TWA: 150 mg/m <sup><math>3</math></sup> 10 hours.
		OSHA PEL (United States, 2/2013).
		TWA: 100 ppm 8 hours.
		TWA: 300 mg/m <sup>3</sup> 8 hours.
2-Propanol		ACGIH TLV (United States, 4/2014).
		TWA: 200 ppm 8 hours.
		STEL: 400 ppm 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/m³ 8 hours.
1-Methoxy-2-propanol		ACGIH TLV (United States, 4/2014).
		$\neg \forall \forall 1 \in V  (\forall 1 \in U )  \forall (\forall 1 \in U)  (\forall 1 \in U)  \forall (\forall 1 \in U)  (\forall 1 $
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## Section 8. Exposure controls/personal protection

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	TWA: 50 ppm 8 hours.
	TWA: 184 mg/m <sup>3</sup> 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 369 mg/m <sup>3</sup> 15 minutes.
	NIOSH REL (United States, 10/2013).
	TWA: 100 ppm 10 hours.
	TWA: 360 mg/m <sup>3</sup> 10 hours.
	STEL: 150 ppm 15 minutes.
	STEL: 540 mg/m <sup>3</sup> 15 minutes.
Methyl n-Amyl Ketone	ACGIH TLV (United States, 4/2014).
	TWA: 50 ppm 8 hours.
	TWA: 233 mg/m <sup>3</sup> 8 hours.
	NIOSH REL (United States, 10/2013).
	TWA: 100 ppm 10 hours.
	TWA: 465 mg/m <sup>3</sup> 10 hours.
	OSHA PEL (United States, 2/2013).
	TWA: 100 ppm 8 hours.
	TWA: 465 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.

Individual	protection	measures
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Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical pro- eating, smoking and using the lavatory and at the end of the working per Appropriate techniques should be used to remove potentially contamina Wash contaminated clothing before reusing. Ensure that eyewash stat showers are close to the workstation location.	eriod. ated clothing.
Eye/face protection	Safety eyewear complying with an approved standard should be used v assessment indicates this is necessary to avoid exposure to liquid spla gases or dusts. If contact is possible, the following protection should be the assessment indicates a higher degree of protection: chemical spla or face shield. If inhalation hazards exist, a full-face respirator may be	shes, mists, e worn, unless sh goggles and/
Skin protection		
Hand protection	Chemical-resistant, impervious gloves complying with an approved star worn at all times when handling chemical products if a risk assessment necessary. Considering the parameters specified by the glove manufac during use that the gloves are still retaining their protective properties. noted that the time to breakthrough for any glove material may be differ glove manufacturers. In the case of mixtures, consisting of several sub protection time of the gloves cannot be accurately estimated.	t indicates this is cturer, check It should be rent for different
Body protection	Personal protective equipment for the body should be selected based of performed and the risks involved and should be approved by a special handling this product. When there is a risk of ignition from static electric static protective clothing. For the greatest protection from static dischar should include anti-static overalls, boots and gloves.	st before icity, wear anti-
Other skin protection	Appropriate footwear and any additional skin protection measures should based on the task being performed and the risks involved and should be specialist before handling this product.	
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### Section 8. Exposure controls/personal 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.
Color	: Not available.
Odor	: Not available.
Odor threshold	: Not available.
рН	: Not available.
Melting point	: Not available.
Boiling point	: 72°C (161.6°F)
Flash point	: Closed cup: 11°C (51.8°F) [Pensky-Martens Closed Cup]
Evaporation rate	: 3.91 (butyl acetate = 1)
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Lower: 1.1% Upper: 19%
Vapor pressure	: 1.5 kPa (11.465 mm Hg) [at 20°C]
Vapor density	: 1.5 [Air = 1]
Relative density	: 0.94
Solubility	: Not available.
Partition coefficient: n- octanol/water	: Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Kinematic (room temperature): >0.205 cm <sup>2</sup> /s (>20.5 cSt) Kinematic (40°C (104°F)): >0.205 cm <sup>2</sup> /s (>20.5 cSt)
Aerosol product	

Heat of combustion

: 0.00001932 kJ/g

### 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
n-Butyl Acetate	LC50 Inhalation Gas.	Rat	390 ppm	4 hours
-	LD50 Dermal	Rabbit	>17600 mg/kg	-
	LD50 Oral	Rat	10768 mg/kg	-
1-Butanol	LC50 Inhalation Vapor	Rat	24000 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	3400 mg/kg	-
	LD50 Oral	Rat	790 mg/kg	-
Ethanol	LC50 Inhalation Vapor	Rat	124700 mg/m <sup>3</sup>	4 hours
	LD50 Oral	Rat	7 g/kg	-
Ethyl Acetate	LD50 Oral	Rat	5620 mg/kg	-
2-Methyl-1-propanol	LC50 Inhalation Vapor	Rat	19200 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	3400 mg/kg	-
	LD50 Oral	Rat	2460 mg/kg	-
2-Propanol	LD50 Dermal	Rabbit	12800 mg/kg	-
•	LD50 Oral	Rat	5000 mg/kg	-
1-Methoxy-2-propanol	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Rat	6600 mg/kg	-
Methyl n-Amyl Ketone	LD50 Oral	Rat	1600 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
n-Butyl Acetate	Eyes - Moderate irritant	Rabbit	-	100	-
				milligrams	
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				milligrams	
1-Butanol	Eyes - Severe irritant	Rabbit	-	24 hours 2	-
				milligrams	
	Eyes - Severe irritant	Rabbit	-	0.005 Mililiters	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20	-
				milligrams	
Ethanol	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
				milligrams	
	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	
2-Propanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
	-			milligrams	
	Eyes - Moderate irritant	Rabbit	-	10 milligrams	-
	Eyes - Severe irritant	Rabbit	-	100	-
				milligrams	
	Skin - Mild irritant	Rabbit	-	500 <sup>~</sup>	-
				milligrams	
1-Methoxy-2-propanol	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
				milligrams	
	Skin - Mild irritant	Rabbit	-	500	-
				milligrams	
Methyl n-Amyl Ketone	Skin - Mild irritant	Rabbit	-	24 hours 14	-
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### Section 11. Toxicological information

#### **Sensitization**

Not available.

#### **Mutagenicity**

Not available.

#### **Carcinogenicity**

Not available.

#### **Classification**

Product/ingredient name	OSHA	IARC	NTP
Ethanol 2-Propanol	-	1 3	-

#### Reproductive toxicity

Not available.

#### **Teratogenicity**

Not available.

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

Name	Category	Route of exposure	Target organs
1-Butanol	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Ethanol	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
2-Methyl-1-propanol	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
2-Propanol	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
1-Methoxy-2-propanol	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Methyl n-Amyl Ketone	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects

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

Name		Route of exposure	Target organs
1-Butanol Ethanol 2-Methyl-1-propanol 2-Propanol 1-Methoxy-2-propanol Methyl n-Amyl Ketone	Category 2 Category 2 Category 2 Category 2	Not determined Not determined Not determined Not determined	Not determined Not determined Not determined Not determined Not determined Not determined

#### Aspiration hazard

Not available.

Information on the likely		Not available.
routes of exposure		
Potential acute health effe		-
Eye contact		Causes serious eye damage.
Inhalation	:	Toxic if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness and dizziness. May cause respiratory irritation. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Skin contact	1	Causes skin irritation.
Ingestion	:	Can cause central nervous system (CNS) depression. May cause burns to mouth, throat and stomach.
Symptoms related to the p	ohy	sical, chemical and toxicological characteristics
Eye contact	:	Adverse symptoms may include the following: pain 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: pain or irritation redness blistering may occur
Ingestion	:	Adverse symptoms may include the following: stomach pains
Delayed and immediate ef	<u>fec</u>	ts and also chronic effects from short and long term exposure
Short term exposure		
Potential immediate effects	1	Not available.
Potential delayed effects	:	Not available.
Long term exposure Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Potential chronic health ef	ffec	<u>xts</u>
Not available.		
General	:	May cause damage to organs through prolonged or repeated exposure.
Carcinogenicity	:	May cause cancer. 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

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Route	ATE value	
Oral Dermal Inhalation (gases) Inhalation (vapors)	3992.1 mg/kg 15472.7 mg/kg 920.4 ppm 355.5 mg/l	

# Section 12. Ecological information

Product/ingredient name	Result	Species	Exposure
n-Butyl Acetate	Acute LC50 32000 µg/l Marine water	Crustaceans - Artemia salina - Nauplii	48 hours
	Acute LC50 18000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
1-Butanol	Acute EC50 1983000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 1730000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Ethanol	Acute EC50 17.921 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Acute EC50 2000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 25500 µg/l Marine water	Crustaceans - Artemia franciscana - Larvae	48 hours
	Acute LC50 42000 µg/l Fresh water	Fish - Oncorhynchus mykiss	4 days
	Chronic NOEC 4.995 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Chronic NOEC 0.375 ul/L Fresh water	Fish - Gambusia holbrooki - Larvae	12 weeks
Ethyl Acetate	Acute EC50 2500000 µg/l Fresh water	Algae - Selenastrum sp.	96 hours
-	Acute LC50 750000 µg/l Fresh water	Crustaceans - Gammarus pulex	48 hours
	Acute LC50 154000 µg/l Fresh water	Daphnia - Daphnia cucullata	48 hours
	Acute LC50 212500 µg/l Fresh water	Fish - Heteropneustes fossilis	96 hours
	Chronic NOEC 2400 µg/l Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 75.6 mg/l Fresh water	Fish - Pimephales promelas - Embryo	32 days
2-Methyl-1-propanol	Acute LC50 600000 µg/l Marine water	Crustaceans - Artemia salina - Nauplii	48 hours
	Acute LC50 1030000 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 1330000 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 4000 µg/l Fresh water	Daphnia - Daphnia magna	21 days
2-Propanol	Acute LC50 1400000 µg/l Marine water	Crustaceans - Crangon crangon	48 hours
	Acute LC50 4200 mg/l Fresh water	Fish - Rasbora heteromorpha	96 hours
Methyl n-Amyl Ketone	Acute LC50 131000 µg/l Fresh water	Fish - Pimephales promelas	96 hours

#### Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
n-Butyl Acetate	-	-	Readily
1-Butanol	-	-	Readily
Ethanol	-	-	Readily
Ethyl Acetate	-	-	Readily
2-Methyl-1-propanol	-	-	Readily
2-Propanol	-	-	Readily
1-Methoxy-2-propanol	-	-	Readily
Methyl n-Ámyl Ketone	-	-	Readily

#### **Bioaccumulative potential**

Product/ingredient name	LogPow		BCF	Potential	
Ethyl Acetate	-		30	low	
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### Section 12. Ecological information

Soil/water partition	: Not available.
coefficient (Koc)	

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.

### Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	ΙΑΤΑ	IMDG
UN number	UN1263	UN1263	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT	PAINT	PAINT
Transport hazard class(es)	3	3	3	3	3
Packing group	II	11	П	П	11
Environmental hazards	No.	No.	No.	No.	No.
Additional information	<u>Special</u> provisions Not Applicable	<u>Special</u> provisions Not Applicable	<u>Special</u> provisions (ERG#128)	<u>Special</u> provisions Not Applicable	Emergency schedules (EmS) F-E, S-E

Special precautions for user : Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.

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### Section 14. Transport information

Transport in bulk according : Not available. to Annex II of MARPOL 73/78 and the IBC Code

### Section 15. Regulatory information

#### U.S. Federal regulations

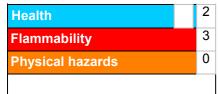
State regulations

#### California Prop. 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

### Section 16. Other information

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



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.

#### Notice to reader

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from any other source.

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### Section 16. Other information

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