#### 11292 Vinyl Laminating Adhesive









#### **SECTION 1: IDENTIFICATION**

1.1 **GHS Product identifier:** 11292 Vinyl Laminating Adhesive

Other means of identification:

Not applicable (N/A)

Recommended use of the chemical and restrictions on use: 1.2

Relevant uses: Adhesive. For professional users/industrial user only.

Uses advised against: All uses not specified in this section or in section 7.3

1.3 Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party:

The Ruscoe Company 485 Kenmore Blvd 44301 Akron - United States

Phone: 330-253-8148

Sales@Ruscoe.com; SDS@Ruscoe.com

www.ruscoe.com

Emergency phone number: Chemtrec 1-800-424-9300

#### SECTION 2: HAZARD(S) IDENTIFICATION

#### 2.1 Classification of the substance or mixture:

#### 29 CFR 1910.1200:

Classification of this product has been carried out in accordance with paragraph (d) of § 1910.1200.

Eye Dam. 1: Serious eye damage, Category 1, H318 Flam. Liq. 2: Flammable liquids, Category 2, H225 Repr. 2: Reproductive toxicity, Category 2, H361 Skin Irrit. 2: Skin irritation, Category 2, H315

Skin Sens. 1: Sensitisation, skin, Category 1, H317

STOT SE 3: Specific toxicity causing drowsiness and dizziness, single exposure, Category 3, H336

STOT SE 3: Respiratory tract toxicity, single exposure, Category 3, H335

#### 2.2 Label elements:

#### 29 CFR 1910.1200:

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#### **Hazard statements:**

Eye Dam. 1: H318 - Causes serious eye damage.

Flam. Lig. 2: H225 - Highly flammable liquid and vapour.

Repr. 2: H361 - Suspected of damaging fertility or the unborn child.

Skin Irrit. 2: H315 - Causes skin irritation.

Skin Sens. 1: H317 - May cause an allergic skin reaction. STOT SE 3: H336 - May cause drowsiness or dizziness.

STOT SE 3: H335 - May cause respiratory irritation.

#### **Precautionary statements:**

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P280: Wear protective gloves/protective clothing/respiratory protection/eye protection/protective footwear.

P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+P313: IF exposed or concerned: Get medical advice/attention.

P370+P378: In case of fire: Use ABC powder extinguisher to put it out.

P501: Dispose of contents and / or containers in accordance with regulations on hazardous waste or packaging and packaging waste respectively.

#### Substances that contribute to the classification

Butanone (CAS: 78-93-3); butan-1-ol (CAS: 71-36-3); Toluene (CAS: 108-88-3)

## Safety data sheet according to 29 CFR 1910.1200

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#### SECTION 2: HAZARD(S) IDENTIFICATION (continued)

#### Additional labeling:



#### WADNING

This product can expose you to chemicals including Formaldehyde , which is [are] known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

#### 2.3 Hazards not otherwise classified (HNOC):

Not applicable (N/A)

#### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances:

Non-applicable

#### 3.2 Mixtures:

Chemical description: Mixture composed of additives and resins in solvents

#### Components:

Remaining components are non-hazardous and/or present at amounts below reportable limits. The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200. Therefore, in accordance with Appendix D to § 1910.1200, the product contains:

	Identification	Chemical name/Classification	Concentration
CAS:	78-93-3	Butanone	25 - <50 %
CAS.	70 33 3	Eye Irrit. 2A: H319; Flam. Liq. 2: H225; STOT SE 3: H336 - Danger	
C4.C	74.26.2	butan-1-ol	10 - <25 %
CAS:	71-36-3	Acute Tox. 4: H302; Eye Dam. 1: H318; Flam. Liq. 3: H226; Skin Irrit. 2: H315; STOT SE 3: H335; STOT SE 3: H336 - Danger	10 - <25 %
CAC.	64.17.5	ethanol	10 - <25 %
CAS:	64-17-5	Eye Irrit. 2A: H319; Flam. Liq. 2: H225 - Danger	10 - <25 %
646	80-62-6	Methyl methacrylate	11.0/
CAS:		Flam. Liq. 2: H225; Skin Irrit. 2: H315; Skin Sens. 1: H317; STOT SE 3: H335 - Danger	<1 %
646	100.05.3	phenol	11.0/
CAS:	108-95-2	Acute Tox. 3: H301+H311+H331; Flam. Liq. 4: H227; Muta. 2: H341; Skin Corr. 1B: H314; STOT RE 2: H373 - Danger	<1 %
CAG	100.00.3	Toluene	<1 %
CAS:	108-88-3	Asp. Tox. 1: H304; Flam. Liq. 2: H225; Repr. 2: H361; Skin Irrit. 2: H315; STOT RE 2: H373; STOT SE 3: H336 - Danger	<1 %

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

#### **SECTION 4: FIRST-AID MEASURES**

#### 4.1 Description of necessary measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

#### By inhalation:

Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply, etc.) requiring immediate medical assistance.

#### Bv skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

#### By eye contact:

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#### SECTION 4: FIRST-AID MEASURES (continued)

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

#### By ingestion/aspiration:

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

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

Acute and delayed effects are indicated in sections 2 and 11.

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

Not applicable (N/A)

#### **SECTION 5: FIRE-FIGHTING MEASURES**

#### 5.1 Suitable (and unsuitable) extinguishing media:

#### Suitable extinguishing media:

If possible use polyvalent powder fire extinguishers (ABC powder), alternatively use foam or carbon dioxide extinguishers (CO2).

#### Unsuitable extinguishing media:

IT IS RECOMMENDED NOT to use full jet water as an extinguishing agent.

#### 5.2 Specific hazards arising from the chemical:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

#### 5.3 Special protective equipment and precautions for fire-fighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and individual respiratory equipment. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...)

#### **Additional provisions:**

As in any fire, prevent human exposure to fire, smoke, fumes or products of combustion. Only properly trained personnel should be involved in firefighting. Evacuate nonessential personnel from the fire area. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures:

#### For non-emergency personnel:

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inert medium. Remove any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

#### For emergency responders:

Wear protective equipment. Keep unprotected persons away. See section 8.

#### 6.2 Environmental precautions:

 $This \ product \ is \ not \ classified \ as \ hazardous \ to \ the \ environment. \ Keep \ product \ away \ from \ drains, \ surface \ and \ underground \ water.$ 

#### 6.3 Methods and materials for containment and cleaning up:

For accidental releases in excess of reportables quantities (RQ) (Table 302.4), refer to 40 CFR 302 for detailed instructions concerning reporting requirements and notify the National Response Center (800) 424-8802.

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

#### 6.4 Reference to other sections:

See sections 8 and 13.



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#### SECTION 7: HANDLING AND STORAGE

#### 7.1 Precautions for safe handling:

A.- General precautions for safe use

Comply with the current standards 29 CFR 1910 Occupational Safety and Health Standards. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

Because the product is a flammable liquid, storage should meet the requirement of 29 CFR 1910.106, Flammable and Combustible Liquids Code. Transfer in well ventilated areas, preferably through localized extraction. Fully control sources of ignition (mobile phones, sparks,...) and ventilate during cleaning operations. Avoid the existence of dangerous atmospheres inside containers, applying inertization systems where possible. Transfer at a slow speed to avoid the creation of electrostatic charges. Against the possibility of electrostatic charges: ensure a perfect equipotential connection, always use groundings, do not wear work clothes made of acrylic fibres, preferably wearing cotton clothing and conductive footwear. Comply with the essential security requirements for equipment and systems and with the minimum requirements for protecting the security and health of workers. Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations on general occupational hygiene

PREGNANT WOMEN SHOULD NOT BE EXPOSED TO THIS PRODUCT. Transfer in fixed places that comply with the necessary security conditions (emergency showers and eyewash stations in close proximity), using personal protection equipment, especially on the hands and face (See section 8). Limit manual transfers to containers of small amounts. Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

#### 7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Minimum Temp.: 41 °F Maximum Temp.: 90 °F

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

#### 7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

#### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace:

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000):

Identification	Occupational exposure lin	Occupational exposure limits		
Butanone	8-hour TWA PEL 200 ppm	590 mg/m <sup>3</sup>		
CAS: 78-93-3	Ceiling Values - TWA PEL			
Methyl methacrylate	8-hour TWA PEL 100 ppm	410 mg/m <sup>3</sup>		
CAS: 80-62-6	Ceiling Values - TWA PEL			
Toluene	8-hour TWA PEL 200 ppm	300 mg/m <sup>3</sup>		
CAS: 108-88-3	Ceiling Values - TWA PEL			
butan-1-ol	8-hour TWA PEL 100 ppm	300 mg/m <sup>3</sup>		
CAS: 71-36-3	Ceiling Values - TWA PEL			
ethanol	8-hour TWA PEL 1000 ppm	1900 mg/m <sup>3</sup>		
CAS: 64-17-5	Ceiling Values - TWA PEL			
phenol	8-hour TWA PEL 5 ppm	19 mg/m <sup>3</sup>		
CAS: 108-95-2	Ceiling Values - TWA PEL			
Formaldehyde	8-hour TWA PEL 0.75 ppm			

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#### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000):

Identification	Occupational exposure limits		nits
	Ceiling Values - TWA PEL	2 ppm	

#### US. ACGIH Threshold Limit Values (2022):

	Identification		Occupational exposure limits		
Butanone		TLV-TWA	50 ppm		
CAS: 78-93-3		TLV-STEL	100 ppm		
Methyl methacrylate		TLV-TWA	50 ppm		
CAS: 80-62-6		TLV-STEL	100 ppm		
Toluene		TLV-TWA	20 ppm		
CAS: 108-88-3		TLV-STEL			
butan-1-ol		TLV-TWA	15 ppm		
CAS: 71-36-3		TLV-STEL			
ethanol		TLV-TWA			
CAS: 64-17-5		TLV-STEL	1000 ppm		
phenol		TLV-TWA	5 ppm		
CAS: 108-95-2		TLV-STEL			
Formaldehyde		TLV-TWA	0.1 ppm		
CAS: 50-00-0		TLV-STEL	0.3 ppm		

#### CALIFORNIA- TABLE AC-1 PERMISSIBLE EXPOSURE LIMITS FOR CHEMICAL CONTAMINANTS:

Identification	Occupational exposure limits		
Toluene	PEL	10 ppm	37 mg/m <sup>3</sup>
CAS: 108-88-3	STEL	150 ppm	560 mg/m <sup>3</sup>
butan-1-ol	PEL	50 ppm	150 mg/m <sup>3</sup>
CAS: 71-36-3	STEL	50 ppm	150 mg/m <sup>3</sup>
ethanol	PEL	1000 ppm	1900 mg/m <sup>3</sup>
CAS: 64-17-5	STEL		
phenol	PEL	5 ppm	19 mg/m <sup>3</sup>
CAS: 108-95-2	STEL		
Formaldehyde	PEL	0.75 ppm	
CAS: 50-00-0	STEL	2 ppm	

#### **Biological limit values:**

Biological Exposure Indices (BEIs®) - ACGIH

Identification	BEIs®	Determinant	Sampling Time
Butanone CAS: 78-93-3	2 mg/L	Methyl ethyl ketone in urine	End of shift
Toluene CAS: 108-88-3	0.02 mg/L	Toluene in blood	Prior to last shift of workweek
phenol CAS: 108-95-2	250 mg/L	Phenol in urine	End of shift

#### 8.2 Appropriate engineering controls:

A.- Individual protection measures, such as personal protective equipment

As a preventative measure it is recommended to use basic Personal Protection Equipment. For more information on Personal Protection Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation, the information on clothing performance must be combined with professional judgment, and a clear understanding of the clothing application, to provide the best protection to the worker. All chemical protective clothing use must be based on a hazard assessment to determine the risks for exposure to chemicals and other hazards. Conduct hazard assessments in accordance with 29 CFR 1910.132.

### B.- Respiratory protection

Pictogram	PPE	Remarks
Mandatory respiratory tract protection	Filter mask for gases and vapours	Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment. Use respirator in accordance with manufacturer's use limitations and OSHA standard 1910.134 (29CFR)



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#### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

#### C.- Specific protection for the hands

Pictogram	PPE	Remarks
Mandatory hand protection	Chemical protective gloves (Material: Linear low -density polyethylene (LLDPE), Breakthrough time: > 480 min, Thickness: 0.062 mm)	The Breakthrough Time indicated by the manufacturer must exceed the period during which the product is being used. Do not use protective creams after the product has come into contact with skin. Use gloves in accordance with manufacturer's use limitations and OSHA standard 1910.138 (29CFR)

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

#### D.- Eye and face protection

Pictogram	PPE	Remarks
Mandatory face protection	Panoramic glasses against splash/projections.	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing. Use this PPE in accordance with manufacturer's use limitations and OSHA standard 1910.133 (29CFR)

#### E.- Bodily protection

Pictogram	PPE	Remarks
Mandatory complete body protection	Antistatic and fireproof protective clothing	Limited protection against flames.
Mandatory foot protection	Safety footwear with antistatic and heat resistant properties	Replace boots at any sign of deterioration. Use foot protection in accordance with manufacturer's use limitations and OSHA standard 1910.136 (29CFR)

#### F.- Additional emergency measures

Emergency measure Standards		Emergency measure	Standards
•	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	<b>-</b>	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011
Emergency shower		Eyewash stations	

#### **Environmental exposure controls:**

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

#### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

#### Appearance:

Physical state at 68 °F:

Appearance:

Color:

Not available

Odor:

Not available

Odour threshold: Not applicable (N/A) \*

Volatility:

Boiling point at atmospheric pressure: 189 °F Vapour pressure at 74 °F: 7989 Pa

 ${}^{*}$ Not relevant due to the nature of the product, not providing information property of its hazards.

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#### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

Vapour pressure at 122 °F: 27225.9 Pa (27.23 kPa) Evaporation rate at 74 °F: Not applicable (N/A) \*

**Product description:** 

Density at 74 °F: 849.3 kg/m<sup>3</sup>

Relative density at 74 °F: 0.849

Dynamic viscosity at 74 °F: Not applicable (N/A) \* Kinematic viscosity at 74 °F: Not applicable (N/A) \* Kinematic viscosity at 104 °F: Not applicable (N/A) \* Concentration: Not applicable (N/A) \* pH: Not applicable (N/A) \* Vapour density at 74 °F: Not applicable (N/A) \* Partition coefficient n-octanol/water 74 °F: Not applicable (N/A) \* Solubility in water at 74 °F: Not applicable (N/A) \* Solubility properties: Not applicable (N/A) \* Decomposition temperature: Not applicable (N/A) \* Melting point/freezing point: Not applicable (N/A) \*

Flammability:

Flash Point: 46 °F

Flammability (solid, gas): Not applicable (N/A) \*

Autoignition temperature: 650 °F
Lower flammability limit: Not available
Upper flammability limit: Not available

Particle characteristics:

Median equivalent diameter: Non-applicable

9.2 Other information:

Information with regard to physical hazard classes:

Explosive properties: Not applicable (N/A) \* Oxidising properties: Not applicable (N/A) \* Corrosive to metals: Not applicable (N/A) \* Heat of combustion: Not applicable (N/A) \* Aerosols-total percentage (by mass) of flammable Not applicable (N/A) \*

components:

Other safety characteristics:

Surface tension at 74  $^{\circ}$ F: Not applicable (N/A) \* Refraction index: Not applicable (N/A) \*

\*Not relevant due to the nature of the product, not providing information property of its hazards.

#### SECTION 10: STABILITY AND REACTIVITY

#### 10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7 from Safety Data Sheet.

#### 10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

#### 10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

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#### SECTION 10: STABILITY AND REACTIVITY (continued)

#### 10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Risk of combustion	Avoid direct impact	Not applicable

#### 10.5 Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Avoid direct impact	Not applicable	Avoid alkalis or strong bases

#### 10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO<sub>2</sub>), carbon monoxide and other organic compounds.

#### SECTION 11: TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects:

The experimental information related to the toxicological properties of the product itself is not available

#### **Dangerous health implications:**

In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure:

- A- Ingestion (acute effect):
  - Acute toxicity: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
  - Corrosivity/Irritability: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.
- B- Inhalation (acute effect):
  - Acute toxicity: Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.
  - Corrosivity/Irritability: Causes irritation in respiratory passages, which is normally reversible and limited to the upper respiratory passages.
- C- Contact with the skin and the eyes (acute effect):
  - Contact with the skin: Produces skin inflammation.
  - Contact with the eyes: Produces serious eye damage after contact.
- D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):
  - Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.
    - IARC: Methyl methacrylate (3); Toluene (3); ethanol (1); phenol (3); Formaldehyde (1)
  - Mutagenicity: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous with mutagenic effects. For more information see section 3.
  - Reproductive toxicity: Suspected of damaging fertility or the unborn child
- E- Sensitizing effects:
  - Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.
  - Skin: Prolonged contact with the skin can result in episodes of allergic contact dermatitis.
- F- Specific target organ toxicity (STOT) single exposure:

Causes irritation in respiratory passages, which is normally reversible and limited to the upper respiratory passages.

- G- Specific target organ toxicity (STOT)-repeated exposure:
  - Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, however, it does contain substances which are classified as dangerous due to repetitive exposure. For more information see section 3.
  - Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

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#### SECTION 11: TOXICOLOGICAL INFORMATION (continued)

#### H- Aspiration hazard:

Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

#### Other information:

Not applicable (N/A)

#### Specific toxicology information on the substances:

	Identification	Acu	ite toxicity	Genus
Butanone		LD50 oral	4000 mg/kg	Rat
CAS: 78-93-3		LD50 dermal	6400 mg/kg	Rabbit
		LC50 inhalation	23.5 mg/L (4 h)	Rat
butan-1-ol		LD50 oral	800 mg/kg	Rat
CAS: 71-36-3		LD50 dermal	3430 mg/kg	Rabbit
		LC50 inhalation	24.66 mg/L (4 h)	Rat
ethanol		LD50 oral	6200 mg/kg	Rat
CAS: 64-17-5		LD50 dermal	20000 mg/kg	Rabbit
		LC50 inhalation	124.7 mg/L (4 h)	Rat
phenol		LD50 oral	100 mg/kg	Rat
CAS: 108-95-2		LD50 dermal	630 mg/kg	Rabbit
		LC50 inhalation	3 mg/L (ATEi)	
Methyl methacrylate		LD50 oral	>5000 mg/kg	
CAS: 80-62-6		LD50 dermal	>5000 mg/kg	
		LC50 inhalation	>20 mg/L	
Toluene		LD50 oral	5580 mg/kg	Rat
CAS: 108-88-3		LD50 dermal	12124 mg/kg	Rat
		LC50 inhalation	28.1 mg/L (4 h)	Rat

#### Acute Toxicity Estimate (ATE mix):

	Ingredient(s) of unknown toxicity	
Oral 3434.67 mg/kg (Calculation method) 0		0 %
Dermal	167446.31 mg/kg (Calculation method)	0 %
Inhalation	797.36 mg/L (4 h) (Calculation method)	0 %

#### **SECTION 12: ECOLOGICAL INFORMATION**

The experimental information related to the eco-toxicological properties of the product itself is not available

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

#### 12.1 Ecotoxicity (aquatic and terrestrial, where available):

#### **Acute toxicity:**

Identification		Concentration	Species	Genus
Butanone	LC50	3220 mg/L (96 h)	Pimephales promelas	Fish
CAS: 78-93-3	EC50	5091 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	4300 mg/L (168 h)	Scenedesmus quadricauda	Algae
butan-1-ol	LC50	1740 mg/L (96 h)	Pimephales promelas	Fish
CAS: 71-36-3	EC50	1983 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	500 mg/L (96 h)	Scenedesmus subspicatus	Algae
ethanol	LC50	11000 mg/L (96 h)	Alburnus alburnus	Fish
CAS: 64-17-5	EC50	9268 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	1450 mg/L (192 h)	Microcystis aeruginosa	Algae
Methyl methacrylate	LC50	191 mg/L (96 h)	Lepomis macrochirus	Fish
CAS: 80-62-6	EC50	69 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	170 mg/L (96 h)	Selenastrum capricornutum	Algae

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### SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification		Concentration	Species	Genus
phenol	LC50	14 mg/L (96 h)	Leuciscus idus	Fish
CAS: 108-95-2	EC50	12 mg/L (24 h)	Daphnia magna	Crustacean
	EC50	370 mg/L (96 h)	Chlorella vulgaris	Algae
Toluene	LC50	5.5 mg/L (96 h)	Oncorhynchus kisutch	Fish
CAS: 108-88-3	EC50	3.78 mg/L (48 h)	Ceriodaphnia dubia	Crustacean
	EC50	Not applicable (N/A)		

#### **Chronic toxicity:**

Identification	Concentration		Species	Genus
butan-1-ol	NOEC	Not applicable (N/A)		
CAS: 71-36-3	NOEC	4.1 mg/L	Daphnia magna	Crustacean
ethanol	NOEC	250 mg/L	Danio rerio	Fish
CAS: 64-17-5	NOEC	2 mg/L	Ceriodaphnia dubia	Crustacean
Methyl methacrylate	NOEC	9.4 mg/L	Danio rerio	Fish
CAS: 80-62-6	NOEC	37 mg/L	Daphnia magna	Crustacean
phenol	NOEC	0.077 mg/L	Cirrhina mrigala	Fish
CAS: 108-95-2	NOEC	0.16 mg/L	Daphnia magna	Crustacean

#### 12.2 Persistence and degradability:

#### **Substance-specific information:**

Identification	De	gradability	Biode	gradability
Butanone	BOD5	2.03 g O2/g	Concentration	Not applicable (N/A)
CAS: 78-93-3	COD	2.31 g O2/g	Period	20 days
	BOD5/COD	0.88	% Biodegradable	89 %
butan-1-ol	BOD5	1.71 g O2/g	Concentration	Not applicable (N/A)
CAS: 71-36-3	COD	2.46 g O2/g	Period	19 days
	BOD5/COD	0.7	% Biodegradable	98 %
ethanol	BOD5	Not applicable (N/A)	Concentration	100 mg/L
CAS: 64-17-5	COD	Not applicable (N/A)	Period	14 days
	BOD5/COD	Not applicable (N/A)	% Biodegradable	89 %
Methyl methacrylate	BOD5	Not applicable (N/A)	Concentration	100 mg/L
CAS: 80-62-6	COD	Not applicable (N/A)	Period	14 days
	BOD5/COD	Not applicable (N/A)	% Biodegradable	94.3 %
phenol	BOD5	1.68 g O2/g	Concentration	100 mg/L
CAS: 108-95-2	COD	2.33 g O2/g	Period	14 days
	BOD5/COD	0.72	% Biodegradable	85 %
Toluene	BOD5	2.5 g O2/g	Concentration	100 mg/L
CAS: 108-88-3	COD	Not applicable (N/A)	Period	14 days
	BOD5/COD	Not applicable (N/A)	% Biodegradable	100 %

#### 12.3 Bioaccumulative potential:

#### **Substance-specific information:**

Identification		Bioaccumulation potential		
Butanone		BCF	3	
CAS: 78-93-3		Pow Log	0.29	
		Potential Low		
butan-1-ol		BCF	1	
CAS: 71-36-3		Pow Log	0.88	
		Potential	Low	

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#### SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification	Bioaccur	mulation potential
ethanol	BCF	3
CAS: 64-17-5	Pow Log	-0.31
	Potential	Low
Methyl methacrylate	BCF	7
CAS: 80-62-6	Pow Log	1.38
	Potential	Low
phenol	BCF	17
CAS: 108-95-2	Pow Log	1.48
	Potential	Low
Toluene	BCF	90
CAS: 108-88-3	Pow Log	2.73
	Potential	Moderate

#### 12.4 Mobility in soil:

Identification	Absorption/desorption		Volat	ility
Butanone	Koc	30	Henry	5.77 Pa·m³/mol
CAS: 78-93-3	Conclusion	Very High	Dry soil	Yes
	Surface tension	2.396E-2 N/m (77 °F)	Moist soil	Yes
butan-1-ol	Koc	2.44	Henry	5.39E-2 Pa·m³/mol
CAS: 71-36-3	Conclusion	Very High	Dry soil	Yes
	Surface tension	2.567E-2 N/m (77 °F)	Moist soil	Yes
ethanol	Koc	1	Henry	4.61E-1 Pa·m³/mol
CAS: 64-17-5	Conclusion	Very High	Dry soil	Yes
	Surface tension	2.339E-2 N/m (77 °F)	Moist soil	Yes
Methyl methacrylate	Koc	Not applicable (N/A)	Henry	Not applicable (N/A)
CAS: 80-62-6	Conclusion	Not applicable (N/A)	Dry soil	Not applicable (N/A)
	Surface tension	2.551E-2 N/m (77 °F)	Moist soil	Not applicable (N/A)
phenol	Koc	50	Henry	2.2E-2 Pa·m³/mol
CAS: 108-95-2	Conclusion	Very High	Dry soil	Yes
	Surface tension	1.847E-2 N/m (447.82 °F)	Moist soil	Yes
Toluene	Koc	178	Henry	672.8 Pa·m³/mol
CAS: 108-88-3	Conclusion	Moderate	Dry soil	Yes
	Surface tension	2.793E-2 N/m (77 °F)	Moist soil	Yes

#### 12.5 Results of PBT and vPvB assessment:

Non-applicable

#### 12.6 Other adverse effects:

Not described

#### SECTION 13: DISPOSAL CONSIDERATIONS

#### 13.1 Disposal methods:

The characteristic of Ignitability per RCRA could apply to the unused product if it becomes a waste material. The EPA hazardous waste number D001 could apply.

#### Waste management (disposal and evaluation):

Follow RCRA framework and EPA regulation for to ensure that hazardous waste is managed safely and properly. Waste should not be disposed of to drains. Remind, It is the responsibility of the waste generator to evaluate whether his wastes are hazardous by characteristics or listing. See section 6 for further information about Accidental release measures.

#### **Regulations related to waste management:**

Legislation related to waste management:

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#### SECTION 13: DISPOSAL CONSIDERATIONS (continued)

40 CFR Solid Wastes - Part 239 through 282.

State regulatory requirements for generators may be more stringent than those in the federal program. Be sure to check the state's policies.

#### SECTION 14: TRANSPORT INFORMATION

#### Transport of dangerous goods by land:

With regard to 49 CFR on the Transport of Dangerous Goods:



14.1 UN number: UN1133
14.2 UN proper shipping name: ADHESIVES
14.3 Transport hazard class(es): 3

Labels: 3

14.4 Packing group, if applicable: II

14.5 Marine pollutant: No

14.6 Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises

Physico-Chemical properties: see section 9

Limited quantities: 5 L

14.7 Transport in bulk (according Not applicable (N/A) to Annex II of MARPOL 73/78 and the IBC Code):

#### Transport of dangerous goods by sea:

With regard to IMDG 40-20:

14.1 UN number: UN113314.2 UN proper shipping name: ADHESIVES

14.3 Transport hazard class(es): 3
Labels: 3

14.4 Packing group, if applicable: II

14.5 Marine pollutant: No

14.6 Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises

Special regulations: Not applicable (N/A)

EmS Codes: F-E, S-D Physico-Chemical properties: see section 9

Limited quantities: 5 L

Segregation group: Not applicable (N/A)

14.7 Transport in bulk (according to Annex II of MARPOL

73/78 and the IBC Code):

#### Transport of dangerous goods by air:

With regard to IATA/ICAO 2023:



14.1 UN number: UN113314.2 UN proper shipping name: ADHESIVES

14.3 Transport hazard class(es): 3
 Labels: 3

 14.4 Packing group, if applicable: II
 14.5 Marine pollutant: No

14.6 Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises

Physico-Chemical properties: see section 9

**14.7 Transport in bulk (according** Not applicable (N/A)

to Annex II of MARPOL 73/78 and the IBC Code):

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#### SECTION 15: REGULATORY INFORMATION

#### 15.1 Safety, health and environmental regulations specific for the product in question:

- CALIFORNIA LABOR CODE The Hazardous Substances List: Butanone (78-93-3); Methyl methacrylate (80-62-6); Toluene (108-88-3); butan-1-ol (71-36-3); ethanol (64-17-5); phenol (108-95-2); Formaldehyde (50-00-0)
- California Proposition 65 (the Safe Drinking Water and Toxic Enforcement Act of 1986) Birth defects or other reproductive harm: Not applicable (N/A)
- California Proposition 65 (the Safe Drinking Water and Toxic Enforcement Act of 1986) Cancer: Formaldehyde (50-00-0)
- CANADA-Domestic Substances List (DSL): Butanone (78-93-3); Methyl methacrylate (80-62-6); Toluene (108-88-3); butan-1-ol (71-36-3); ethanol (64-17-5); phenol (108-95-2); Formaldehyde (50-00-0)
- CANADA-Non-Domestic Substances List (NDSL): Not applicable (N/A)
- Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Reportable Quantities: *Butanone* (78-93-3) U159; *Methyl methacrylate* (80-62-6) U162; *Toluene* (108-88-3) U220; *butan-1-ol* (71-36-3) U031; *phenol* (108-95-2) U188; *Formaldehyde* (50-00-0) U122
- Hazardous Air Pollutants (Clean Air Act): Methyl methacrylate (80-62-6); Toluene (108-88-3); phenol (108-95-2); Formaldehyde (50-00-0)
- Massachusetts RTK Substance List: *Butanone (78-93-3)*; *Methyl methacrylate (80-62-6)*; *Toluene (108-88-3)*; *butan-1-ol (71-36-3)*; *ethanol (64-17-5)*; *phenol (108-95-2)*; *Formaldehyde (50-00-0)*
- Minnesota Hazardous substances ERTK: Butanone (78-93-3); Methyl methacrylate (80-62-6); Toluene (108-88-3); butan-1-ol (71-36-3); ethanol (64-17-5); phenol (108-95-2); Formaldehyde (50-00-0)
- New Jersey Worker and Community Right-to-Know Act: *Butanone (78-93-3)*; *Methyl methacrylate (80-62-6)*; *Toluene (108-88-3)*; *butan-1-ol (71-36-3)*; *ethanol (64-17-5)*; *phenol (108-95-2)*; *Formaldehyde (50-00-0)*
- New York RTK Substance list: Butanone (78-93-3); Methyl methacrylate (80-62-6); Toluene (108-88-3); butan-1-ol (71-36-3); ethanol (64-17-5); phenol (108-95-2); Formaldehyde (50-00-0)
- NTP (National Toxicology Program): Formaldehyde (50-00-0)
- OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096): Formaldehyde (50-00-0)
- Pennsylvania Worker and Community Right-to-Know Law: *Butanone (78-93-3)*; *Methyl methacrylate (80-62-6)*; *Toluene (108-88-3)*; *butan-1-ol (71-36-3)*; *ethanol (64-17-5)*; *phenol (108-95-2)*; *Formaldehyde (50-00-0)*
- Rhode Island Hazardous substances RTK: *Butanone (78-93-3)*; *Methyl methacrylate (80-62-6)*; *Toluene (108-88-3)*; *butan-1-ol (71-36-3)*; *phenol (108-95-2)*; *Formaldehyde (50-00-0)*
- The Toxic Substances Control Act (TSCA): Butanone (78-93-3); Methyl methacrylate (80-62-6); Toluene (108-88-3); butan-1-ol (71-36-3); ethanol (64-17-5); phenol (108-95-2); Formaldehyde (50-00-0)
- Toxic chemical release reporting under EPCRA section 313 (40 CFR Part 372): Methyl methacrylate (80-62-6); Toluene (108-88-3); butan-1-ol (71-36-3); phenol (108-95-2); Formaldehyde (50-00-0)

#### Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of the local circumstances in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

#### Other legislation:

Take into consideration other applicable federal, state, and local laws and local regulations.

#### **SECTION 16: OTHER INFORMATION**

#### Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with Appendix d to §1910.1200 - Safety data sheets

#### Texts of the legislative phrases mentioned in section 2:

- H318: Causes serious eye damage.
- H336: May cause drowsiness or dizziness.
- H335: May cause respiratory irritation.
- H317: May cause an allergic skin reaction.
- H361: Suspected of damaging fertility or the unborn child.
- H315: Causes skin irritation.
- H225: Highly flammable liquid and vapour.

#### Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

29 CFR 1910.1200:

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#### SECTION 16: OTHER INFORMATION (continued)

Acute Tox. 3: H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled.

Acute Tox. 4: H302 - Harmful if swallowed.

Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways.

Eye Dam. 1: H318 - Causes serious eye damage. Eye Irrit. 2A: H319 - Causes serious eye irritation. Flam. Liq. 2: H225 - Highly flammable liquid and vapour. Flam. Liq. 3: H226 - Flammable liquid and vapour.

Flam. Liq. 4: H227 - Combustible liquid.

Muta. 2: H341 - Suspected of causing genetic defects.

Repr. 2: H361 - Suspected of damaging fertility or the unborn child. Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.

Skin Irrit. 2: H315 - Causes skin irritation.

Skin Sens. 1: H317 - May cause an allergic skin reaction.

STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure.

STOT SE 3: H335 - May cause respiratory irritation. STOT SE 3: H336 - May cause drowsiness or dizziness.

#### Advice related to training:

Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

#### Principal bibliographical sources:

Occupational Safety & Health Administration (OSHA).

#### **Abbreviations and acronyms:**

IMDG: International maritime dangerous goods code IATA: International Air Transport Association ICAO: International Civil Aviation Organisation

COD: Chemical Oxygen Demand

BOD5: 5-day biochemical oxygen demand

BCF: Bioconcentration factor LD50: Lethal Dose 50 CL50: Lethal Concentration 50 EC50: Effective concentration 50

Log-POW: Octanol-water partition coefficient Koc: Partition coefficient of organic carbon IARC: International Agency for Research on Cancer

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