




Reliobond 1803



SECTION 1: IDENTIFICATION

- 1.1 GHS Product identifier:** Reliobond 1803
Other means of identification:
Not applicable (N/A)
- 1.2 Recommended use of the chemical and restrictions on use:**
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
- 1.4 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 Irrit. 2A: Eye irritation, Category 2A, H319
Flam. Liq. 2: Flammable liquids, Category 2, H225
Skin Sens. 1B: Sensitisation, skin, Category 1B, H317
STOT SE 3: Specific toxicity causing drowsiness and dizziness, single exposure, Category 3, H336
- 2.2 Label elements:**
29 CFR 1910.1200:
Danger
- 
- Hazard statements:**
Eye Irrit. 2A: H319 - Causes serious eye irritation.
Flam. Liq. 2: H225 - Highly flammable liquid and vapour.
Skin Sens. 1B: H317 - May cause an allergic skin reaction.
STOT SE 3: H336 - May cause drowsiness or dizziness.
- Precautionary statements:**
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280: Wear protective gloves/face protection/protective clothing/respiratory protection/protective footwear.
P302+P352: IF ON SKIN: Wash with plenty of soap and water.
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.
P370+P378: In case of fire: Use Foam extinguisher (AB), Dry Chemical Powder (ABC) Fire Extinguisher, Carbon dioxide extinguisher (BC) to extinguish.
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**
Methyl Ethyl Ketone (CAS: 78-93-3); Isopropyl Alcohol; Formaldehyde, polymer with phenol and cashew nut shell liquid (CAS: 67700-42-9)
- Additional labeling:**

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SECTION 2: HAZARD(S) IDENTIFICATION (continued)



WARNING

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	Methyl Ethyl Ketone Eye Irrit. 2A: H319; Flam. Liq. 2: H225; STOT SE 3: H336 - Danger	75 - <100 %
CAS: 9039-25-2	Formaldehyde, polymer with methylphenol and phenol Comb. Dust: CD; Eye Irrit. 2A: H319; Skin Sens. 1: H317 - Warning	2.5 - <10 %
CAS: Non-applicable	Isopropyl Alcohol Eye Irrit. 2A: H319; Flam. Liq. 2: H225; STOT SE 3: H336 - Danger	2.5 - <10 %
CAS: 67700-42-9	Formaldehyde, polymer with phenol and cashew nut shell liquid Skin Sens. 1B: H317 - Warning	1 - <2.5 %
CAS: 108-95-2	phenol Acute Tox. 3: H301+H311+H331; Flam. Liq. 4: H227; Muta. 2: H341; Skin Corr. 1B: H314; STOT RE 2: H373 - Danger	<1 %
CAS: 100-97-0	methenamine Flam. Sol. 2: H228; Skin Sens. 1: H317 - Warning	<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.

By 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:

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.

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SECTION 4: FIRST-AID MEASURES (continued)

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 available

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Suitable (and unsuitable) extinguishing media:

Suitable extinguishing media:

Foam extinguisher (AB), Dry Chemical Powder (ABC) Fire Extinguisher, Carbon dioxide extinguisher (BC)

Unsuitable extinguishing media:

Water jet

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 reportable 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.

SECTION 7: HANDLING AND STORAGE

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SECTION 7: HANDLING AND STORAGE (continued)

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

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 limits		
	8-hour TWA PEL	200 ppm	590 mg/m ³
Methyl Ethyl Ketone CAS: 78-93-3	Ceiling Values - TWA PEL		
Carbon black CAS: 1333-86-4	8-hour TWA PEL		3.5 mg/m ³
	Ceiling Values - TWA PEL		
phenol ⁽¹⁾ CAS: 108-95-2	8-hour TWA PEL	5 ppm	19 mg/m ³
	Ceiling Values - TWA PEL		
Isopropyl Alcohol CAS: Non-applicable	8-hour TWA PEL	400 ppm	980 mg/m ³
	Ceiling Values - TWA PEL		
Ortho-cresol CAS: 95-48-7	8-hour TWA PEL	55 ppm	22 mg/m ³
	Ceiling Values - TWA PEL		
Formaldehyde ⁽²⁾ CAS: 50-00-0	8-hour TWA PEL	0.75 ppm	
	Ceiling Values - TWA PEL	2 ppm	

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

US. ACGIH Threshold Limit Values (2022):

Identification	Occupational exposure limits		
	TLV-TWA	TLV-STEL	
Methyl Ethyl Ketone CAS: 78-93-3	50 ppm	100 ppm	
Carbon black CAS: 1333-86-4			3 mg/m ³
phenol ⁽¹⁾ CAS: 108-95-2	5 ppm		
Isopropyl Alcohol CAS: Non-applicable	200 ppm	400 ppm	
Ortho-cresol CAS: 95-48-7			10 mg/m ³
Formaldehyde ⁽²⁾ CAS: 50-00-0	0.1 ppm	0.3 ppm	

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

Identification	Occupational exposure limits		
	PEL	STEL	
Carbon black CAS: 1333-86-4			3.5 mg/m ³
phenol ⁽¹⁾ CAS: 108-95-2	5 ppm		19 mg/m ³
Isopropyl Alcohol CAS: Non-applicable	400 ppm	500 ppm	980 mg/m ³ 1225 mg/m ³
Ortho-cresol CAS: 95-48-7	5 ppm		22 mg/m ³
Formaldehyde ⁽²⁾ CAS: 50-00-0	0.75 ppm	2 ppm	

⁽¹⁾ Likely absorption through the skin
⁽²⁾ Sensitising potential

Biological limit values:

Biological Exposure Indices (BEIs®) - ACGIH


Identification	BEIs®	Determinant	Sampling Time
Methyl Ethyl Ketone CAS: 78-93-3	2 mg/L	Methyl ethyl ketone in urine	End of shift
phenol CAS: 108-95-2	250 mg/L	Phenol in urine	End of shift
Isopropyl Alcohol CAS: Non-applicable	40 mg/L	Acetone in urine	End of shift at end of workweek

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)

C.- Specific protection for the hands

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)



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	Face shield	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	Disposable clothing for protection against chemical risks, with antistatic and fireproof properties	For professional use only. Clean periodically according to the manufacturer's instructions.
 Mandatory foot protection	Safety footwear for protection against chemical risk, with antistatic and heat resistant properties	Replace boots at any sign of deterioration.

F.- Additional emergency measures

Emergency measure	Standards	Emergency measure	Standards
 Emergency shower	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	 Eyewash stations	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011

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: Liquid
 Appearance: Not available
 Color: Not available
 Odor: Not available
 Odour threshold: Not available *

Volatility:

Boiling point at atmospheric pressure: 176 °F
 Vapour pressure at 74 °F: 11229 Pa
 Vapour pressure at 122 °F: 35396.81 Pa (35.4 kPa)

*Not available 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)

Evaporation rate at 74 °F: Not available *

Product description:

Density at 74 °F: 828.7 kg/m³

Relative density at 74 °F: 0.829

Dynamic viscosity at 74 °F: Not available *

Kinematic viscosity at 74 °F: Not available *

Kinematic viscosity at 104 °F: Not available *

Concentration: Not available *

pH: Not available *

Vapour density at 74 °F: Not available *

Partition coefficient n-octanol/water 74 °F: Not available *

Solubility in water at 74 °F: Not available *

Solubility properties: Not available *

Decomposition temperature: Not available *

Melting point/freezing point: Not available *

Flammability:

Flash Point: 23 °F

Flammability (solid, gas): Not available *

Autoignition temperature: 750 °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 available *

Oxidising properties: Not available *

Corrosive to metals: Not available *

Heat of combustion: Not available *

Aerosols-total percentage (by mass) of flammable components: Not available *

Other safety characteristics:

Surface tension at 74 °F: Not available *

Refraction index: Not available *

*Not available 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.

10.4 Conditions to avoid:

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SECTION 10: STABILITY AND REACTIVITY (continued)

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Precaution	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 (CO₂), 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: 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.

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: 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.

C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for skin contact. For more information see section 3.
- Contact with the eyes: Produces 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: Carbon black (2B); phenol (3); Isopropyl Alcohol (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: 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.

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:

Exposure in high concentration can cause a breakdown in the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion, and in serious cases, loss of consciousness.

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: Repeated exposure may cause skin dryness or cracking

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SECTION 11: TOXICOLOGICAL INFORMATION (continued)

H- Aspiration hazard:

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.

Other information:

Not applicable (N/A)

Specific toxicology information on the substances:

Identification	Acute toxicity		Genus
	Route	Toxicity	
Methyl Ethyl Ketone CAS: 78-93-3	LD50 oral	4000 mg/kg	Rat
	LD50 dermal	6400 mg/kg	Rabbit
	LC50 inhalation	23.5 mg/L (4 h)	Rat
Formaldehyde, polymer with phenol and cashew nut shell liquid CAS: 67700-42-9	LD50 oral	>5000 mg/kg	
	LD50 dermal	>5000 mg/kg	
	LC50 inhalation		
phenol CAS: 108-95-2	LD50 oral	100 mg/kg (ATEi)	Rat
	LD50 dermal	630 mg/kg (ATEi)	Rabbit
	LC50 inhalation	3 mg/L (ATEi)	
Formaldehyde, polymer with methylphenol and phenol CAS: 9039-25-2	LD50 oral	>5000 mg/kg	
	LD50 dermal	>5000 mg/kg	
	LC50 inhalation	>5 mg/L	
Isopropyl Alcohol CAS: Non-applicable	LD50 oral	5280 mg/kg	Rat
	LD50 dermal	12800 mg/kg	Rat
	LC50 inhalation	72.6 mg/L (4 h)	Rat
methenamine CAS: 100-97-0	LD50 oral	>5000 mg/kg	
	LD50 dermal	>5000 mg/kg	
	LC50 inhalation	>5 mg/L	

Acute Toxicity Estimate (ATE mix):

ATE mix		Ingredient(s) of unknown toxicity
Oral	3930.05 mg/kg (Calculation method)	0 %
Dermal	126000 mg/kg (Calculation method)	0 %
Inhalation	600 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
	Route	Concentration		
Methyl Ethyl Ketone CAS: 78-93-3	LC50	3220 mg/L (96 h)	Pimephales promelas	Fish
	EC50	5091 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	4300 mg/L (168 h)	Scenedesmus quadricauda	Algae
Isopropyl Alcohol CAS: Non-applicable	LC50	9640 mg/L (96 h)	Pimephales promelas	Fish
	EC50	13299 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	1000 mg/L (72 h)	Scenedesmus subspicatus	Algae
phenol CAS: 108-95-2	LC50	14 mg/L (96 h)	Leuciscus idus	Fish
	EC50	12 mg/L (24 h)	Daphnia magna	Crustacean
	EC50	370 mg/L (96 h)	Chlorella vulgaris	Algae
methenamine CAS: 100-97-0	LC50	49800 mg/L (96 h)	Pimephales promelas	Fish
	EC50	36000 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	Not applicable (N/A)		

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SECTION 12: ECOLOGICAL INFORMATION (continued)

Chronic toxicity:

Identification	Concentration		Species	Genus
phenol CAS: 108-95-2	NOEC	0.077 mg/L	Cirrhina mrigala	Fish
	NOEC	0.16 mg/L	Daphnia magna	Crustacean

12.2 Persistence and degradability:

Substance-specific information:

Identification	Degradability		Biodegradability	
Methyl Ethyl Ketone CAS: 78-93-3	BOD5	2.03 g O2/g	Concentration	Not applicable (N/A)
	COD	2.31 g O2/g	Period	20 days
	BOD5/COD	0.88	% Biodegradable	89 %
Isopropyl Alcohol CAS: Non-applicable	BOD5	1.19 g O2/g	Concentration	100 mg/L
	COD	2.23 g O2/g	Period	14 days
	BOD5/COD	0.53	% Biodegradable	86 %
phenol CAS: 108-95-2	BOD5	1.68 g O2/g	Concentration	100 mg/L
	COD	2.33 g O2/g	Period	14 days
	BOD5/COD	0.72	% Biodegradable	85 %
methenamine CAS: 100-97-0	BOD5	Not applicable (N/A)	Concentration	100 mg/L
	COD	Not applicable (N/A)	Period	14 days
	BOD5/COD	Not applicable (N/A)	% Biodegradable	22 %

12.3 Bioaccumulative potential:

Substance-specific information:

Identification	Bioaccumulation potential	
Methyl Ethyl Ketone CAS: 78-93-3	BCF	3
	Pow Log	0.29
	Potential	Low
Isopropyl Alcohol CAS: Non-applicable	BCF	3
	Pow Log	0.05
	Potential	Low
phenol CAS: 108-95-2	BCF	17
	Pow Log	1.48
	Potential	Low
methenamine CAS: 100-97-0	BCF	0.4
	Pow Log	-2.84
	Potential	Low

12.4 Mobility in soil:

Identification	Absorption/desorption		Volatility	
Methyl Ethyl Ketone CAS: 78-93-3	Koc	30	Henry	5.77 Pa·m ³ /mol
	Conclusion	Very High	Dry soil	Yes
	Surface tension	2.396E-2 N/m (77 °F)	Moist soil	Yes
Isopropyl Alcohol CAS: Non-applicable	Koc	1.5	Henry	8.207E-1 Pa·m ³ /mol
	Conclusion	Very High	Dry soil	Yes
	Surface tension	2.24E-2 N/m (77 °F)	Moist soil	Yes
phenol CAS: 108-95-2	Koc	50	Henry	2.2E-2 Pa·m ³ /mol
	Conclusion	Very High	Dry soil	Yes
	Surface tension	1.847E-2 N/m (447.82 °F)	Moist soil	Yes
methenamine CAS: 100-97-0	Koc	55	Henry	1.621E-4 Pa·m ³ /mol
	Conclusion	Very High	Dry soil	No
	Surface tension	Not applicable (N/A)	Moist soil	No

12.5 Results of PBT and vPvB assessment:

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SECTION 12: ECOLOGICAL INFORMATION (continued)

Non-applicable

12.6 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Disposal methods:

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

IT IS THE RESPONSIBILITY OF THE WASTE GENERATOR TO EVALUATE WHETHER HIS WASTES ARE HAZARDOUS BY CHARACTERISTICS OR LISTING.

Waste management (disposal and evaluation):

Follow RCRA framework and EPA regulation 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:

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 to Annex II of MARPOL 73/78 and the IBC Code): | Not applicable (N/A) |

Transport of dangerous goods by sea:

With regard to IMDG 41-22:

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SECTION 14: TRANSPORT INFORMATION (continued)



- | | |
|--|----------------------|
| 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 | |
| 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): | Not applicable (N/A) |

Transport of dangerous goods by air:

With regard to IATA/ICAO 2024:



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

SECTION 15: REGULATORY INFORMATION

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

- CONTINUED ON NEXT PAGE -



Reliobond 1803



SECTION 15: REGULATORY INFORMATION (continued)

- CALIFORNIA LABOR CODE - The Hazardous Substances List: *Methyl Ethyl Ketone (78-93-3)*; *Carbon black (1333-86-4)*; *phenol (108-95-2)*; *Isopropyl Alcohol (Non-applicable)*; *Ortho-cresol (95-48-7)*; *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): *Methyl Ethyl Ketone (78-93-3)*; *NBR (9003-18-3)*; *Carbon black (1333-86-4)*; *Poly(1,2-dihydro-2,2,4-trimethylquinoline) (26780-96-1)*; *Formaldehyde, polymer with phenol and cashew nut shell liquid (67700-42-9)*; *methenamine (100-97-0)*; *phenol (108-95-2)*; *Formaldehyde, polymer with methylphenol and phenol (9039-25-2)*; *Isopropyl Alcohol (Non-applicable)*; *Ortho-cresol (95-48-7)*; *Formaldehyde (50-00-0)*
- CANADA-Non-Domestic Substances List (NDSL): Not applicable (N/A)
- Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) - Reportable Quantities: *Methyl Ethyl Ketone (78-93-3)* - U159; *phenol (108-95-2)* - U188; *Ortho-cresol (95-48-7)* - 100 lb; *Formaldehyde (50-00-0)* - U122
- Hazardous Air Pollutants (Clean Air Act): *phenol (108-95-2)*; *Ortho-cresol (95-48-7)*; *Formaldehyde (50-00-0)*
- Massachusetts RTK - Substance List: *Methyl Ethyl Ketone (78-93-3)*; *Carbon black (1333-86-4)*; *phenol (108-95-2)*; *Isopropyl Alcohol (Non-applicable)*; *Ortho-cresol (95-48-7)*; *Formaldehyde (50-00-0)*
- Minnesota - Hazardous substances ERTK: *Methyl Ethyl Ketone (78-93-3)*; *Carbon black (1333-86-4)*; *phenol (108-95-2)*; *Isopropyl Alcohol (Non-applicable)*; *Ortho-cresol (95-48-7)*; *Formaldehyde (50-00-0)*
- New Jersey Worker and Community Right-to-Know Act: *Methyl Ethyl Ketone (78-93-3)*; *Carbon black (1333-86-4)*; *methenamine (100-97-0)*; *phenol (108-95-2)*; *Isopropyl Alcohol (Non-applicable)*; *Ortho-cresol (95-48-7)*; *Formaldehyde (50-00-0)*
- New York RTK - Substance list: *Methyl Ethyl Ketone (78-93-3)*; *methenamine (100-97-0)*; *phenol (108-95-2)*; *Isopropyl Alcohol (Non-applicable)*; *Ortho-cresol (95-48-7)*; *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: *Methyl Ethyl Ketone (78-93-3)*; *Carbon black (1333-86-4)*; *phenol (108-95-2)*; *Isopropyl Alcohol (Non-applicable)*; *Ortho-cresol (95-48-7)*; *Formaldehyde (50-00-0)*
- Rhode Island - Hazardous substances RTK: *Methyl Ethyl Ketone (78-93-3)*; *phenol (108-95-2)*; *Ortho-cresol (95-48-7)*; *Formaldehyde (50-00-0)*
- The Toxic Substances Control Act (TSCA) (USA, Puerto Rico): *Methyl Ethyl Ketone (78-93-3)*; *NBR (9003-18-3)*; *Carbon black (1333-86-4)*; *Poly(1,2-dihydro-2,2,4-trimethylquinoline) (26780-96-1)*; *Formaldehyde, polymer with phenol and cashew nut shell liquid (67700-42-9)*; *methenamine (100-97-0)*; *phenol (108-95-2)*; *Formaldehyde, polymer with methylphenol and phenol (9039-25-2)*; *Isopropyl Alcohol (Non-applicable)*; *Ortho-cresol (95-48-7)*; *Formaldehyde (50-00-0)*
- Toxic chemical release reporting under EPCRA section 313 (40 CFR Part 372): *phenol (108-95-2)*; *Isopropyl Alcohol (Non-applicable)*; *Ortho-cresol (95-48-7)*; *Formaldehyde (50-00-0)*

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information provided in this safety data sheet as a foundation for conducting workplace-specific risk assessments. These assessments will help establish the appropriate risk prevention measures for handling, using, storing, and disposing 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:

- H319: Causes serious eye irritation.
- H336: May cause drowsiness or dizziness.
- H317: May cause an allergic skin reaction.
- 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.
Comb. Dust: CD - May form combustible dust concentrations in air
Eye Irrit. 2A: H319 - Causes serious eye irritation.
Flam. Liq. 2: H225 - Highly flammable liquid and vapour.
Flam. Liq. 4: H227 - Combustible liquid.
Flam. Sol. 2: H228 - Flammable solid.
Muta. 2: H341 - Suspected of causing genetic defects.
Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.
Skin Sens. 1: H317 - May cause an allergic skin reaction.
Skin Sens. 1B: H317 - May cause an allergic skin reaction.
STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure.
STOT SE 3: H336 - May cause drowsiness or dizziness.

Advice related to training:

According to 29 CFR 1910.1200, training on chemical hazards is necessary for employees using this product. This training will facilitate their understanding and interpretation of the safety data sheet, as well as the product label.

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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END OF SAFETY DATA SHEET