

**BELZONA® 2911 - ELASTOMER QD CONDITIONER  
SN2665**

Date of compilation: 4/10/2024

Revised: 3/14/2025

Version: 1.1 (Replaced 1)

## SECTION 1: IDENTIFICATION

- 1.1 Product identifier:** BELZONA® 2911 - ELASTOMER QD CONDITIONER  
SN2665
- Other means of identification:**  
Non-applicable
- 1.2 Recommended use of the chemical and restrictions on use:**  
Relevant uses (Industrial user): Surface Primer  
Uses advised against: All uses not specified in this section or in section 7.3
- 1.3 Name, U.S. address, and U.S. telephone number of the chemical manufacturer, importer, or other responsible party:**  
Belzona Limited  
Claro Road  
HG1 4DS Harrogate - North Yorkshire - England  
Phone: +441423567641  
sds@belzona.com  
https://www.belzona.com
- Belzona Inc.  
14300 NW 60th Ave.  
Miami Lakes  
FL 33014  
UNITED STATES  
Telephone: 1-305-594-4994
- 1.4 Emergency phone number:** VelocityEHS: +1 813-248-0585 (International) (24/7/365)  
US, Puerto Rico & the U.S. Virgin Islands: 1-800-255-3924 (24/7)

## SECTION 2: HAZARD(S) IDENTIFICATION

- 2.1 Classification of the substance or mixture:**
- NFPA:**  
Health Hazards: 3  
Flammability Hazards: 3  
Instability Hazards: 0  
Special Hazards: Non-applicable
- 29 CFR 1910.1200:**  
Classification of the chemical in accordance with paragraph (d)(1)(i) of §1910.1200  
Acute Tox. 4: Acute inhalation toxicity, Category 4, H332  
Carc. 2: Carcinogenicity, Category 2, H351  
Eye Irrit. 2A: Eye irritation, Category 2A, H319  
Flam. Liq. 2: Flammable liquids, Category 2, H225  
Repr. 1B: Reproductive toxicity, Category 1B, H360  
Resp. Sens. 1: Sensitisation, respiratory, Category 1, H334  
Skin Irrit. 2: Skin irritation, Category 2, H315  
Skin Sens. 1: Sensitisation, skin, Category 1, H317  
STOT RE 2: Specific target organ toxicity — Repeated exposure, Hazard Category 2 (Inhalation), H373  
STOT RE 2: Specific target organ toxicity, repeated exposure, Category 2, H373  
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:**
- NFPA:**

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



29 CFR 1910.1200:

**Danger**



**Hazard statements:**

Acute Tox. 4: H332 - Harmful if inhaled.

Carc. 2: H351 - Suspected of causing cancer.

Eye Irrit. 2A: H319 - Causes serious eye irritation.

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

Repr. 1B: H360 - May damage fertility or the unborn child.

Resp. Sens. 1: H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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 (Inhalation). Organs affected: Respiratory system.

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

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

STOT SE 3: H335 - May cause respiratory irritation.

**Precautionary statements:**

P202: Do not handle until all safety precautions have been read and understood.

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

P260: Do not breathe vapors.

P280: Wear protective gloves, protective clothing and eye protection.

P284: Wear respiratory protection.

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

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 attention.

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

Non-applicable

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

**3.1 Substances:**

Non-applicable

**3.2 Mixtures:**

**Chemical description:** Polyurethane prepolymer

**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	Concentration
CAS: 78-93-3	Butanone	30 - <60 %
CAS: Non-applicable	PREPOLYMER BASED ON AROMATIC POLYISOCYANATE	10 - <30 %

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**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)**

Identification	Chemical name	Concentration
CAS: 5873-54-1	Diphenylmethane-2,4'-diisocyanate	5 - <10 %
CAS: 101-68-8	4,4'-methylenediphenyl diisocyanate	5 - <10 %
CAS: 77-58-7	Dibutyltin Dilaurate	<0.3 %

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 water for at least 15 minutes. 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:**

Non-applicable

**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 Self Contained Breathing Apparatus. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...)

**Additional provisions:**

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## SECTION 5: FIRE-FIGHTING MEASURES (continued)

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 spilled 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.

Prevent the entrance of product in drains, sewers or watercourses. Absorb the spill using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. Collect the product in appropriate containers and manage it according to current legislation.

Spillages in water or sea:

Small spillages:

Contain spillage using barriers or similar equipment. Use suitable absorbents for collection and treat the waste in accordance with current regulations.

Large spillages:

If possible, contain spillage in open water using barriers or similar equipment. If this is not possible, try to control its spread and collect the product with suitable mechanical means. Always consult experts before using dispersants and make sure you have the necessary approvals if they are to be used. Treat the waste according to current regulations.

### 6.4 Reference to other sections:

See sections 8 and 13.

## 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

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**SECTION 7: HANDLING AND STORAGE (continued)**

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.- Specific storage requirements

Minimum Temp.:            41 °F  
Maximum Temp.:            86 °F  
NFPA 30:                    IA

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 assessed in the workplace:

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

Identification	Occupational exposure limits		
	Butanone CAS: 78-93-3	8-hour TWA PEL	200 ppm
	Ceiling Values - TWA PEL		
4,4'-methylenediphenyl diisocyanate CAS: 101-68-8	8-hour TWA PEL		
	Ceiling Values - TWA PEL	0.02 ppm	0.2 mg/m <sup>3</sup>
Dibutyltin Dilaurate CAS: 77-58-7	8-hour TWA PEL		0.1 mg/m <sup>3</sup>
	Ceiling Values - TWA PEL		

US. ACGIH Threshold Limit Values (2022):

Identification	Occupational exposure limits		
	Butanone CAS: 78-93-3	TLV-TWA	50 ppm
	TLV-STEL	100 ppm	
4,4'-methylenediphenyl diisocyanate CAS: 101-68-8	TLV-TWA	0.005 ppm	
	TLV-STEL		
Dibutyltin Dilaurate CAS: 77-58-7	TLV-TWA		0.1 mg/m <sup>3</sup>
	TLV-STEL		0.2 mg/m <sup>3</sup>

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

Identification	Occupational exposure limits		
	Butanone CAS: 78-93-3	PEL	200 ppm
	STEL	300 ppm	885 mg/m <sup>3</sup>
4,4'-methylenediphenyl diisocyanate CAS: 101-68-8	PEL	0.005 ppm	0.051 mg/m <sup>3</sup>
	STEL		
Dibutyltin Dilaurate CAS: 77-58-7	PEL		0.1 mg/m <sup>3</sup>
	STEL		

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

NIOSH: Immediately Dangerous To Life or Health (IDLH) Values:

Identification	Occupational exposure limits		
	TWA	IDLH Value	Other
Butanone CAS: 78-93-3		3000 ppm	
4,4'-methylenediphenyl diisocyanate CAS: 101-68-8			75 mg/m <sup>3</sup>
Dibutyltin Dilaurate CAS: 77-58-7			25 mg/m <sup>3</sup>

**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

**8.2 Appropriate engineering controls:**


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

Always provide effective general and, when necessary, local exhaust ventilation to maintain the ambient workplace atmosphere below the exposure limits.. For more information on Personal Protection Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For additional 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
	Filter mask for gases and vapours (Filter type: ABEK)	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)
	Continuous flow compressed air line breathing device (Filter type: ABEK)	Replace when an increase in resistance to breathing is observed and/or a smell or taste of the contaminant is detected.

C.- Specific protection for the hands

Pictogram	PPE	Remarks
	Chemical protective gloves (Material: Nitrile, Breakthrough time: 10 - 30 min, Thickness: 0.12 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
	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



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

pH:	Non-applicable *
Vapour density at 68 °F:	Non-applicable *
Partition coefficient n-octanol/water 68 °F:	Non-applicable *
Solubility in water at 68 °F:	Non-applicable *
Solubility properties:	Water-soluble
Decomposition temperature:	Non-applicable *
Melting point/freezing point:	Non-applicable *

**Flammability:**

Flash Point:	36 °F
Flammability (solid, gas):	Non-applicable *
Autoignition temperature:	>842 °F
Lower flammability limit:	Non-applicable *
Upper flammability limit:	Non-applicable *

**Particle characteristics:**

Median equivalent diameter:	Non-applicable *
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**9.2 Other information:**

**Information with regard to physical hazard classes:**

Explosive properties:	Non-applicable *
Oxidising properties:	Non-applicable *
Corrosive to metals:	Non-applicable *
Heat of combustion:	Non-applicable *
Aerosols-total percentage (by mass) of flammable components:	Non-applicable *

**Other safety characteristics:**

Surface tension at 68 °F:	Non-applicable *
Refraction index:	Non-applicable *

\* The values quoted represent Butanone, a constituent of this product (Initial boiling point, Vapour pressure, and Auto-ignition temperature).

\*Non-applicable 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:**

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

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

**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:**

**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, as it does not contain substances classified as hazardous 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 : 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.
- 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 eye damage after contact.

**D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):**

- Carcinogenicity: Exposure to this product can cause cancer. For more specific information on the possible health effects see section 2.  
IARC: 4,4'-methylenediphenyl diisocyanate (3)
- 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: May damage fertility or the unborn child

**E- Sensitizing effects:**

- Respiratory: Prolonged exposure can result in specific respiratory hypersensitivity.
- 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: 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. Organs affected: Respiratory system.
- Skin: 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.

**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:**

Non-applicable

**Product-specific toxicological information:**

Acute toxicity	Genus
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**SECTION 11: TOXICOLOGICAL INFORMATION (continued)**

LD50 oral	>5000 mg/kg	
LD50 dermal	>5000 mg/kg	
LC50 inhalation vapour	15.33 mg/L	

**Specific toxicology information on the substances:**

Identification	Acute toxicity		Genus
Butanone CAS: 78-93-3	LD50 oral	4000 mg/kg	Rat
	LD50 dermal	6400 mg/kg	Rabbit
	LC50 inhalation vapour	23.5 mg/L (4 h)	Rat
Diphenylmethane-2,4'-diisocyanate CAS: 5873-54-1	LD50 oral		
	LD50 dermal	9400 mg/kg	Rat
	LC50 inhalation vapour	11 mg/L	
	LC50 inhalation dust	1.5 mg/L	
	LC50 inhalation mist	1.5 mg/L	
4,4'-methylenediphenyl diisocyanate CAS: 101-68-8	LD50 oral	7616 mg/kg	Rat
	LD50 dermal	10000 mg/kg	Rabbit
	LC50 inhalation vapour	11 mg/L	
	LC50 inhalation dust	1.5 mg/L	
	LC50 inhalation mist	1.5 mg/L	
Dibutyltin Dilaurate CAS: 77-58-7	LD50 oral	2071 mg/kg	Rat
	LD50 dermal		
	LC50 inhalation		

**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 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
Diphenylmethane-2,4'-diisocyanate CAS: 5873-54-1	LC50	1000 mg/L (96 h)	Brachydanio rerio	Fish
	EC50	129.7 mg/L (24 h)	Daphnia magna	Crustacean
	EC50	Non-applicable		
Dibutyltin Dilaurate CAS: 77-58-7	LC50	>0.1 - 1 mg/L (96 h)		Fish
	EC50	>0.1 - 1 mg/L (48 h)		Crustacean
	EC50	>0.1 - 1 mg/L (72 h)		Algae

**Chronic toxicity:**

Identification	Concentration		Species	Genus
Diphenylmethane-2,4'-diisocyanate CAS: 5873-54-1	NOEC	Non-applicable		
	NOEC	10 mg/L	Daphnia magna	Crustacean
4,4'-methylenediphenyl diisocyanate CAS: 101-68-8	NOEC	Non-applicable		
	NOEC	10 mg/L	Daphnia magna	Crustacean

**12.2 Persistence and degradability:**

**Substance-specific information:**

Identification	Degradability		Biodegradability	
Butanone CAS: 78-93-3	BOD5	2.03 g O2/g	Concentration	Non-applicable
	COD	2.31 g O2/g	Period	20 days
	BOD5/COD	0.88	% Biodegradable	89 %

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

Identification	Degradability		Biodegradability	
	Dibutyltin Dilaurate CAS: 77-58-7	BOD5	0 g O2/g	Concentration
	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	50 %

**12.3 Bioaccumulative potential:**

**Substance-specific information:**

Identification	Bioaccumulation potential	
	Butanone CAS: 78-93-3	BCF
	Pow Log	0.29
	Potential	Low
4,4'-methylenediphenyl diisocyanate CAS: 101-68-8	BCF	150
	Pow Log	4.51
	Potential	High
Dibutyltin Dilaurate CAS: 77-58-7	BCF	31
	Pow Log	3.12
	Potential	Moderate

**12.4 Mobility in soil:**

Identification	Absorption/desorption		Volatility	
	Butanone CAS: 78-93-3	Koc	30	Henry
	Conclusion	Very High	Dry soil	Yes
	Surface tension	2.396E-2 N/m (77 °F)	Moist soil	Yes
4,4'-methylenediphenyl diisocyanate CAS: 101-68-8	Koc	Non-applicable	Henry	Non-applicable
	Conclusion	Non-applicable	Dry soil	Non-applicable
	Surface tension	2.068E-2 N/m (542.21 °F)	Moist soil	Non-applicable

Water-soluble

**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 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 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:

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:**

- CONTINUED ON NEXT PAGE -

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**SECTION 14: TRANSPORT INFORMATION (continued)**

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



- |  |   |
|--|---|
| <b>14.1 UN number:</b>   | UN1193                                    |
| <b>14.2 UN proper shipping name:</b>   | ETHYL METHYL KETONE (METHYL ETHYL KETONE) |
| <b>14.3 Transport hazard class(es):</b>  | 3   |
| Labels:  | 3   |
| <b>14.4 Packing group, if applicable:</b>  | II  |
| <b>14.5 Marine pollutant:</b>  | No  |
| <b>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</b> |   |
| Physico-Chemical properties:   | see section 9                             |
| Limited quantities:  | 1 L                                       |
| <b>14.7 Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code):</b>  | Non-applicable                            |

**Transport of dangerous goods by sea:**

With regard to IMDG 41-22:



- |  |   |
|--|---|
| <b>14.1 UN number:</b>   | UN1193                                    |
| <b>14.2 UN proper shipping name:</b>   | ETHYL METHYL KETONE (METHYL ETHYL KETONE) |
| <b>14.3 Transport hazard class(es):</b>  | 3   |
| Labels:  | 3   |
| <b>14.4 Packing group, if applicable:</b>  | II  |
| <b>14.5 Marine pollutant:</b>  | No  |
| <b>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</b> |   |
| Special regulations:   | Non-applicable                            |
| EmS Codes:   | F-E, S-D                                  |
| Physico-Chemical properties:   | see section 9                             |
| Limited quantities:  | 1 L                                       |
| Segregation group:   | Non-applicable                            |
| <b>14.7 Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code):</b>  | Non-applicable                            |

**Transport of dangerous goods by air:**

With regard to IATA/ICAO 2025:



- |  |   |
|--|---|
| <b>14.1 UN number:</b>   | UN1193                                    |
| <b>14.2 UN proper shipping name:</b>   | ETHYL METHYL KETONE (METHYL ETHYL KETONE) |
| <b>14.3 Transport hazard class(es):</b>  | 3   |
| Labels:  | 3   |
| <b>14.4 Packing group, if applicable:</b>  | II  |
| <b>14.5 Marine pollutant:</b>  | No  |
| <b>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</b> |   |
| Physico-Chemical properties:   | see section 9                             |
| <b>14.7 Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code):</b>  | Non-applicable                            |

**SECTION 15: REGULATORY INFORMATION**

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**SECTION 15: REGULATORY INFORMATION (continued)**

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

- CALIFORNIA LABOR CODE - The Hazardous Substances List: *Butanone (78-93-3)*; *4,4'-methylenediphenyl diisocyanate (101-68-8)*; *Dibutyltin Dilaurate (77-58-7)*
- California Proposition 65 (the Safe Drinking Water and Toxic Enforcement Act of 1986) - Birth defects or other reproductive harm: Non-applicable
- California Proposition 65 (the Safe Drinking Water and Toxic Enforcement Act of 1986) - Cancer: Non-applicable
- CANADA-Domestic Substances List (DSL): *Butanone (78-93-3)*; *PREPOLYMER BASED ON AROMATIC POLYISOCYANATE (Non-applicable)*; *Diphenylmethane-2,4'-diisocyanate (5873-54-1)*; *4,4'-methylenediphenyl diisocyanate (101-68-8)*; *Dibutyltin Dilaurate (77-58-7)*
- CANADA-Non-Domestic Substances List (NDSL): Non-applicable
- Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) - Reportable Quantities: *Butanone (78-93-3) - U159*; *4,4'-methylenediphenyl diisocyanate (101-68-8) - 5000 lb*
- Hazardous Air Pollutants (Clean Air Act): *4,4'-methylenediphenyl diisocyanate (101-68-8)*
- Massachusetts RTK - Substance List: *Butanone (78-93-3)*; *Diphenylmethane-2,4'-diisocyanate (5873-54-1)*; *4,4'-methylenediphenyl diisocyanate (101-68-8)*
- Minnesota - Hazardous substances ERTK: *Butanone (78-93-3)*; *4,4'-methylenediphenyl diisocyanate (101-68-8)*; *Dibutyltin Dilaurate (77-58-7)*
- New Jersey Worker and Community Right-to-Know Act: *Butanone (78-93-3)*; *4,4'-methylenediphenyl diisocyanate (101-68-8)*
- New York RTK - Substance list: *Butanone (78-93-3)*; *4,4'-methylenediphenyl diisocyanate (101-68-8)*
- NTP (National Toxicology Program): Non-applicable
- OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096): Non-applicable
- Pennsylvania Worker and Community Right-to-Know Law: Non-applicable
- Protective Action Criteria (PAC) with AEGs, ERPGs, & TEELs: *Butanone (78-93-3)*; *4,4'-methylenediphenyl diisocyanate (101-68-8)*; *Dibutyltin Dilaurate (77-58-7)*
- Rhode Island - Hazardous substances RTK: *Butanone (78-93-3)*; *4,4'-methylenediphenyl diisocyanate (101-68-8)*
- SB-258 Cleaning Product Right to Know Act : *Butanone (78-93-3)*; *Diphenylmethane-2,4'-diisocyanate (5873-54-1)*; *4,4'-methylenediphenyl diisocyanate (101-68-8)*; *Dibutyltin Dilaurate (77-58-7)*
- The Toxic Substances Control Act (TSCA) : *Butanone (78-93-3)*; *PREPOLYMER BASED ON AROMATIC POLYISOCYANATE (Non-applicable)*; *Diphenylmethane-2,4'-diisocyanate (5873-54-1)*; *4,4'-methylenediphenyl diisocyanate (101-68-8)*; *Dibutyltin Dilaurate (77-58-7)*
- Toxic chemical release reporting under EPCRA section 313 (40 CFR Part 372): *4,4'-methylenediphenyl diisocyanate (101-68-8)*

**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.

**Relevant instructions for use:**

Flashpoint measured JDP 2°C.

**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

**Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:**

Section: 1, 2, 3, 5, 8, 11, 15, 16

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

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

H319: Causes serious eye irritation.

H336: May cause drowsiness or dizziness.

H335: May cause respiratory irritation.

H317: May cause an allergic skin reaction.

H360: May damage fertility or the unborn child.

H315: Causes skin irritation.

H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H373: May cause damage to organs through prolonged or repeated exposure (Inhalation). Organs affected: Respiratory system.

H351: Suspected of causing cancer.

H373: May cause damage to organs through prolonged or repeated exposure.

H332: Harmful if inhaled.

H225: Highly flammable liquid and vapour.

**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