

**Section 1. Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier****Product Identity** MXBON 31326**Unique Formula Identifier****1.2. Relevant identified uses of the substance or mixture and uses advised against****Intended use** Structural Adhesive.**1.3. Details of the supplier of the safety data sheet****Company Name** Cartell Chemical Co., Ltd.  
No. 18 Cheng Gong Street,  
Ming Shyong Industrial Park,  
Chiayi Hsien, Taiwan**Customer Service: Cartell Chemical Co., Ltd.** 886-5-220-3715**1.4. Emergency telephone number****Emergency**  
**24 hour Emergency Telephone No.** 886-5-220-3715**Section 2. Hazard identification of the product****2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]**

Acute Tox. 4;H302	Harmful if swallowed.
Acute Tox. 1;H310	Fatal in contact with skin
Skin Irrit. 2;H315	Causes skin irritation.
Eye Dam. 1;H318	Causes serious eye damage.
Skin Sens. 1;H317	May cause an allergic skin reaction.
STOT RE 2;H373	May cause damage to organs through prolonged or repeated exposure.
Aquatic Chronic 3;H412	Harmful to aquatic life with long lasting effects.
	Contains 2-Hydroxyethyl methacrylate, Acetic acid, 2-phenylhydrazide. May produce an allergic reaction.

**2.2. Label elements**

According to REGULATION (EU) 2020/878 amending Regulations EU 2015/830 and (EC) No 1907/2006

**Danger**

H302 Harmful if swallowed.

H310 Fatal in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

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

H412 Harmful to aquatic life with long lasting effects.

Contains 2-Hydroxyethyl methacrylate, Acetic acid, 2-phenylhydrazide. May produce an allergic reaction.

**[Prevention]:**

- P261 Avoid breathing dust, fume, gas, mist, vapors, spray.  
 P262 Do not get in eyes, on skin, or on clothing.  
 P264 Wash thoroughly after handling.  
 P270 Do not eat, drink or smoke when using this product.  
 P272 Contaminated work clothing should not be allowed out of the workplace.  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves, protective clothing, eye protection, face protection.

**[Response]:**

- P301+312 IF SWALLOWED: Call a POISON CENTER, doctor or physician if you feel unwell.  
 P302+350 IF ON SKIN: Gently wash with soap and water.  
 P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.  
 P310 Immediately call a POISON CENTER, doctor or physician.  
 P321 Specific treatment (see information on this label).  
 P330 IF SWALLOWED: Rinse mouth.  
 P333+313 If skin irritation or a rash occurs: Get medical advice or attention.  
 P361 Remove, Take off immediately all contaminated clothing.  
 P362 Take off contaminated clothing and wash before reuse.

**[Storage]:**

- P405 Store locked up.

**[Disposal]:**

- P501 Dispose of contents or container in accordance with local and national regulations.

**2.3. Other hazards**

- This product contains no PBT/vPvB chemicals.  
 This product contains no endocrine disrupting chemicals.

<b>Section 3. Composition/information on ingredients</b>
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**3.2. Mixtures**

If the product contains substances that present a hazard according to Regulation (EC) No. 1272/2008 [CLP/GHS] (as amended by (EU) 2015/830 and REGULATION (EU) 2020/878), they are listed below.

Ingredient/Chemical Designations	Weight %	Classification according to regulation EC No. 1272/2008*	Notes
<b>2-Hydroxyethyl methacrylate</b> CAS Number: 868-77-9 EC No. 212-782-2 Index No.: 607-124-00-X	10 - 25	Eye Irrit. 2;H319 Skin Irrit. 2;H315 Skin Sens. 1;H317	D <sup>^</sup> CLP 3.1
<b>Acrylic acid</b> CAS Number: 79-10-7 EC No. 201-177-9 Index No.: 607-061-00-8	1 - 5	Flam. Liq. 3;H226 Acute Tox. 4;H332 Acute Tox. 4;H312 Acute Tox. 4;H302 Skin Corr. 1A;H314 Aquatic Acute 1;H400 STOT SE 3;H335 > 1%	D <sup>^</sup> CLP 3.1
<b>Benzisothiazol-3(2h)-one, 1,1-dioxide</b> CAS Number: 81-07-2 EC No. 201-321-0 Index No.:	1 - 5	Not Classified	
<b>Cumene hydroperoxide</b> CAS Number: 80-15-9 EC No. 201-254-7 Index No.: 617-002-00-8	1 - 5	Org. Perox. E;H242 Acute Tox. 3;H331 Acute Tox. 4;H312 Acute Tox. 4;H302 STOT RE 2;H373 Skin Corr. 1B;H314 C ≥ 10 %	Acute M-Factor: 1 Chronic M-Factor: 1

		Skin Irrit. 2;H315: 3 % ≤ C < 10 % Eye Dam. 1;H318: 3 % ≤ C < 10 % Eye Irrit. 2;H319: 1 % ≤ C < 3 % STOT SE 3;H335: C < 10 % Aquatic Chronic 2;H411	
4-Methoxyphenol CAS Number: 150-76-5 EC No. 205-769-8 Index No.: 604-044-00-7	0.10 - 1.0	Acute Tox. 4;H302 Eye Irrit. 2;H319 Skin Sens. 1;H317	
Acetic acid, 2-phenylhydrazide CAS Number: 114-83-0 EC No. 204-055-3 Index No.:	0.10 - 1.0	Acute Tox. 3;H301 Skin Irrit. 2;H315 Skin Sens. 1;H317 Eye Irrit. 2;H319 STOT SE 3;H335	
N,N-dimethyl-p-toluidine CAS Number: 99-97-8 EC No. 202-805-4 Index No.: 612-056-00-9	0.10 - 1.0	Acute Tox. 3;H331 Acute Tox. 3;H311 Acute Tox. 3;H301 STOT RE 2;H373 Aquatic Chronic 3;H412	Acute M-Factor: 1 Chronic M-Factor: 1 C <sup>^</sup> CLP 3.1

<sup>^</sup>CLP 3.1 Reference EC No. 1272/2008 1.1.3.1. Notes relating to the identification, classification and labelling of substances (Table 3.1).

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

\*PBT/vPvB - PBT-substance or vPvB-substance.

The full texts of the phrases are shown in Section 16.

## Section 4. First aid measures

### 4.1. Description of first aid measures

<b>General</b>	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
<b>Inhalation</b>	Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious, place in the recovery position and obtain immediate medical attention. Give nothing by mouth.
<b>Eye</b>	Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.
<b>Skin</b>	Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.
<b>Ingestion</b>	If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

### 4.2. Most important symptoms and effects, both acute and delayed

<b>Overview</b>	No specific symptom data available. Treat symptomatically. See section 2 for further details.
<b>Inhalation</b>	May cause respiratory irritation.
<b>Eye</b>	Causes serious eye damage.
<b>Skin</b>	Fatal in contact with skin May cause an allergic skin reaction. Causes skin irritation.
<b>Overview</b>	No specific symptom data available. Treat symptomatically. See section 2 for further details.

### 4.3. Indication of any immediate medical attention and special treatment needed

**Notes to physician** Treat symptomatically.

## Section 5. Fire-fighting measures

### 5.1. Extinguishing media

Recommended extinguishing media; alcohol resistant foam, CO<sub>2</sub>, powder, water spray.

Unsuitable extinguishing media: Do not use; water jet.

### 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition: No hazardous decomposition data available.

Avoid breathing dust, fume, gas, mist, vapors, spray.

Do not get in eyes, on skin, or on clothing.

### 5.3. Advice for fire-fighters

As with all fires, wear positive pressure, self-contained breathing apparatus, (SCBA) with a full face piece and protective clothing. Persons without respiratory protection should leave area. Wear SCBA during clean-up immediately after fire. No smoking.

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## Section 6. Accidental release measures

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

Put on appropriate personal protective equipment (see section 8).

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

### 6.2. Environmental precautions

Do not allow spills to enter drains or waterways.

### 6.3. Methods and material for containment and cleaning up

Ventilate the area and avoid breathing vapors. Take the personal protective measures listed in section 8.

Contain and absorb spillage with non-combustible materials e.g. sand, earth, and vermiculite. Place in closed containers outside buildings and dispose of according to the Waste Regulations.

### 6.4 Reference to other sections

See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

## Section 7. Handling and storage

### 7.1. Precautions for safe handling

Handle containers carefully to prevent damage and spillage.

See section 2 for further details. - [Prevention]:

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

Incompatible materials: No available information

See section 2 for further details. - [Storage]:

### 7.3. Specific end use(s)

No available information

## Section 8. Exposure controls / personal protection

### 8.1. Control parameters

#### Exposure

CAS No.	Ingredient	Source	Value
79-10-7	Acrylic acid	OSHA	No Established Limit
		ACGIH	TWA: 2 ppm
		NIOSH	TWA 2 ppm (6 mg/m <sup>3</sup> ) [skin]
		National	No Established Limit
80-15-9	Cumene hydroperoxide	OSHA	No Established Limit
		ACGIH	No Established Limit

		NIOSH	No Established Limit
		National	No Established Limit
81-07-2	Benzisothiazol-3(2h)-one, 1,1-dioxide	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		National	No Established Limit
99-97-8	N,N-dimethyl-p-toluidine	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		National	No Established Limit
114-83-0	Acetic acid, 2-phenylhydrazide	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		National	No Established Limit
150-76-5	4-Methoxyphenol	OSHA	No Established Limit
		ACGIH	TWA: 5 mg/m <sup>3</sup>
		NIOSH	TWA 5 mg/m <sup>3</sup>
		National	No Established Limit
868-77-9	2-Hydroxyethyl methacrylate	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		National	No Established Limit

## 8.2. Exposure controls

### Respiratory

If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.

### Eyes

Protective safety glasses recommended

### Skin

Avoid skin contact. Protective gloves recommended.

### Engineering Controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.

### Other Work Practices

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details. - [Prevention]:

## Section 9. Physical and chemical properties

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

#### Appearance

Color: Transparent light amber Physical State: Liquid

#### Odor

No available information

#### Odor threshold

No available information

#### pH

No available information

#### Melting point / freezing point

No available information

#### Initial boiling point and boiling range

No available information

#### Flash Point

°F °C, Test method: (Open/Close cup)

#### Evaporation rate (Ether = 1)

No available information

#### Flammability (solid, gas)

No available information

**Upper/lower flammability or explosive limits**
**Lower Explosive Limit:** No available information

**Upper Explosive Limit:** No available information

**Vapor pressure (Pa)**

No available information

**Vapor Density**

No available information

**Relative Density**

No available information

**Solubility in Water**

No available information

**Partition coefficient n-octanol/water (Log Kow)**

No available information

**Auto-ignition temperature**

No available information

**Decomposition temperature**

No available information

**Viscosity (cSt)**

11000-25000

**Oxidising properties**

No available information

**Explosive properties**

No available information

**9.2. Other information**

No other relevant information.

**Section 10. Stability and reactivity**
**10.1. Reactivity**

Hazardous Polymerization will not occur.

**10.2. Chemical stability**

Stable under normal circumstances.

**10.3. Possibility of hazardous reactions**

No available information

**10.4. Conditions to avoid**

Avoid high temperatures and contact with incompatible material

**10.5. Incompatible materials**

No available information

**10.6. Hazardous decomposition products**

No hazardous decomposition data available.

**Section 11. Toxicological information**
**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
**Acute toxicity**

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapour LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
Acrylic acid - (79-10-7)	1,500.00, Rat - Category: 4	> 2,000.00, Rabbit - Category: NA	> 5.10, Rat - Category: NA	No data available	No data available
Cumene hydroperoxide - (80-15-9)	382.00, Rat - Category: 4	0.126, Rabbit - Category: 1	No data available	No data available	200.00, Mouse - Category: 2
Benzisothiazol-3(2h)-one, 1,1-dioxide - (81-07-2)	17,000.00, Mouse - Category: NA	No data available	No data available	No data available	No data available

N,N-dimethyl-p-toluidine - (99-97-8)	139.00, Mouse - Category: 3	300.00, Point Estimate - Category: 3	No data available	No data available	No data available
Acetic acid, 2-phenylhydrazide - (114-83-0)	No data available	No data available	No data available	No data available	No data available
4-Methoxyphenol - (150-76-5)	No data available	> 2,000.00, Rat - Category: NA	No data available	No data available	0 No data available
2-Hydroxyethyl methacrylate - (868-77-9)	5,564.00, Rat - Category: NA	> 5,000.00, Rabbit - Category: NA	No data available	No data available	No data available

**Carcinogen Data**

CAS No.	Ingredient	Source	Value
79-10-7	Acrylic acid	OSHA	Regulated Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: Yes; Group 4: No;
		ACGIH	A4
80-15-9	Cumene hydroperoxide	OSHA	Regulated Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
		ACGIH	No Established Limit
81-07-2	Benzisothiazol-3(2h)-one, 1,1-dioxide	OSHA	Regulated Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: Yes; Group 4: No;
		ACGIH	No Established Limit
99-97-8	N,N-dimethyl-p-toluidine	OSHA	Regulated Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: Yes; Group 3: No; Group 4: No;
		ACGIH	No Established Limit
114-83-0	Acetic acid, 2-phenylhydrazide	OSHA	Regulated Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
		ACGIH	No Established Limit
150-76-5	4-Methoxyphenol	OSHA	Regulated Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
		ACGIH	No Established Limit
868-77-9	2-Hydroxyethyl methacrylate	OSHA	Regulated Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
		ACGIH	No Established Limit

Classification	Category	Hazard Description
Acute toxicity (oral)	---	---
Acute toxicity (dermal)	1	Fatal in contact with skin
Acute toxicity (inhalation)	---	---
Skin corrosion/irritation	2	Causes skin irritation.
Serious eye damage/irritation	1	Causes serious eye damage.
Respiratory sensitization	---	---
Skin sensitization	1	May cause an allergic skin reaction.
Germ cell mutagenicity	---	---
Carcinogenicity	---	---
Reproductive toxicity	---	---
STOT-single exposure	3	May cause respiratory irritation.
STOT-repeated exposure	2	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	---	---

## 11.2 Information on other hazards

### 11.2.1. Endocrine disrupting properties

This product contains no endocrine disrupting chemicals.

## Section 12. Ecological information

### 12.1. Toxicity

Toxic to aquatic life

#### Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/L	48 hr EC50 crustacea, mg/L	ErC50 algae, mg/L	3hr IC50 Bacteria mg/L	Biodegradability %
Acrylic acid - (79-10-7)	27.00, Oncorhynchus mykiss	95.00, Daphnia magna	0.13 (72 hr), Desmodesmus subspicatus	---	68.00
Cumene hydroperoxide - (80-15-9)	3.90, Oncorhynchus mykiss	18.84, Daphnia magna	3.10 (72 hr), Scenedesmus subspicatus	> 50.00	Not readily biodegradable
Benzisothiazol-3(2h)-one, 1,1-dioxide - (81-07-2)	18,300.00, Pimephales promelas	---	---	---	---
N,N-dimethyl-p-toluidine - (99-97-8)	> 56.12, Pimephales promelas	8.48, Daphnia magna	23.69 (72 hr), Chlorella pyrenoidosa	80.533	Not readily biodegradable
Acetic acid, 2-phenylhydrazide - (114-83-0)	---	---	0.00 (? hr),	---	---
4-Methoxyphenol - (150-76-5)	28.50, Oncorhynchus mykiss	3.00, Daphnia magna	54.70 (72 hr), Pseudokirchneriella subcapitata	---	Readily biodegradable
2-Hydroxyethyl methacrylate - (868-77-9)	>100.00, Oryzias latipes	380.00, Daphnia magna	836.00 (72 hr), Pseudokirchneriella subcapitata	8,560.00	98.00



**12.2. Persistence and degradability**

There is no data available on the preparation itself.

**12.3. Bioaccumulative potential**

No available information

**12.4. Mobility in soil**

No available information

**12.5. Results of PBT and vPvB assessment**

This product contains no PBT/vPvB chemicals.

**12.6 Endocrine disrupting properties**

This product contains no endocrine disrupting chemicals.

**12.7. Other adverse effects**

No available information

<b>Section 13. Disposal considerations</b>
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**13.1. Waste treatment methods**

Observe all federal, state and local regulations when disposing of this substance.

<b>Section 14. Transport information</b>
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	ADR/RID	IMO / IMDG (Ocean Transportation)	ICAO/IATA
<b>14.1. UN number</b>	Not Regulated	Not Regulated	Not Regulated
<b>14.2. UN proper shipping name</b>	Not Regulated	Not Regulated	Not Regulated
<b>14.3. Transport hazard class(es)</b>	<b>DOT Hazard Class:</b> Not Applicable <b>Sub Class:</b> Not Applicable	<b>IMDG:</b> Not Applicable <b>Sub Class:</b> Not Applicable	<b>Air class:</b> Not Applicable <b>Sub Class:</b> Not Applicable
<b>14.4. Packing group</b>	Not Applicable	Not Applicable	Not Applicable
<b>14.5. Environmental hazards</b>			
<b>IMDG</b>	Marine Pollutant: No;		
<b>14.6. Special precautions for user</b>	No available information		
<b>14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not Applicable		

<b>Section 15. Regulatory information</b>
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**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**
**EU Legislation**

REGULATION (EU) 2020/878 amending Regulations EU 2015/830 and (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

**National Legislation**

None noted.

**15.2. Chemical Safety Assessment**

No Chemical Safety Assessment has been carried out.

<b>Section 16. Other information</b>
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**SDS Revision Date**            30/03/2023

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility

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and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

H226 Flammable liquid and vapor.

H242 Heating may cause a fire.

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H311 Toxic in contact with skin.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

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

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.