

Section 1. Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier****Product Identity** MXBON 31332**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
886-5-220-3715**Customer Service: Cartell Chemical Co., Ltd.****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]**

Skin Corr. 1A;H314	Causes severe skin burns and eye damage.
Eye Dam. 1;H318	Causes serious eye damage.
Skin Sens. 1;H317	May cause an allergic skin reaction.
STOT SE 3;H335	May cause respiratory irritation.
Aquatic Acute 2;H401	Toxic to aquatic life.
Aquatic Chronic 2;H411	Toxic to aquatic life with long lasting effects.

2.2. Label elements

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

**Danger**

H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long lasting effects.

[Prevention]:

P233 Keep container tightly closed.
P261 Avoid breathing dust, fume, gas, mist, vapors, spray.
P264 Wash thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
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+310 IF SWALLOWED: Immediately call a POISON CENTER, doctor or physician.

P302+352 IF ON SKIN: Wash with plenty of soap and water.

P303+361+353 IF ON SKIN (or hair): Remove, take off immediately all contaminated clothing. Rinse skin with water, shower.

P304+340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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).

P333+313 If skin irritation or a rash occurs: Get medical advice or attention.

P362 Take off contaminated clothing and wash before reuse.

P363 Wash contaminated clothing before reuse.

P391 Collect spillage.

[Storage]:

P403+233 Store in a well ventilated place. Keep container tightly closed.

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.

Section 3. Composition/information on ingredients
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
2-propenoic acid, 2-methyl-, cyclohexyl ester CAS Number: 101-43-9 EC No.: 202-943-5	25 - 50	Skin Irrit. 2;H315 Eye Irrit. 2;H319 STOT SE 3;H335 Skin Sens. 1;H317	Acute M-Factor: 1 Chronic M-Factor: 1
Styrene-butadiene polymer CAS Number: 9003-55-8 EC No. 618-370-2	25 - 50	Skin Sens. 1;H317 Not Classified	
Methacrylic acid CAS Number: 79-41-4 EC No. 201-204-4 Index No.: 607-088-00-5	5 - 10	Acute Tox. 4;H312 Acute Tox. 4;H302 Skin Corr. 1A;H314 STOT SE 3;H335 > 1%	Acute M-Factor: 1 Chronic M-Factor: 1 D [^] CLP 3.1
Amorphous fumed silica CAS Number: 112945-52-5 EC No. 601-216-3	1 - 5	Combustible Dust Skin Irrit. 2;H315 Eye Irrit. 2;H319 STOT SE 3;H335	
Acrylic acid 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 [^] CLP 3.1
1,3-butanediol dimethacrylate CAS Number: 1189-08-8 EC No. 218-218-7	1 - 5	Skin Irrit. 2;H315 Eye Irrit. 2;H319	

tert-butyl perbenzoate CAS Number: 614-45-9	1 - 5	Org. Perox. C;H242 Skin Irrit. 2;H315 Skin Sens. 1;H317 Acute Tox. 4;H332 Aquatic Acute 1;H400 Aquatic Chronic 3;H412	Acute M-Factor: 1 Chronic M-Factor: 1
2,6-Di-tert-butyl-p-cresol CAS Number: 128-37-0 EC No. 204-881-4	0.10 - 1.0	Aquatic Chronic 1;H410	Chronic M-Factor: 1

^{CLP 31} 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

General	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
Inhalation	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.
Eye	Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.
Skin	Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.
Ingestion	If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

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

Overview	No specific symptom data available. Treat symptomatically. See section 2 for further details.
Inhalation	May cause respiratory irritation.
Eye	Causes serious eye damage.
Skin	May cause an allergic skin reaction. Causes severe skin burns and eye damage.

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, CO₂, 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.

Keep container tightly closed.

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

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.

ERG Guide No. -----

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 ³) [skin]
		National	No Established Limit
79-41-4	Methacrylic acid	OSHA	No Established Limit
		ACGIH	TWA: 20 ppm
		NIOSH	TWA 20 ppm (70 mg/m ³) [skin]
		National	No Established Limit
100-43-9	2-propenoic acid, 2-methyl-, cyclohexyl ester	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		National	No Established Limit
128-37-0	2,6-Di-tert-butyl-p-cresol	OSHA	No Established Limit
		ACGIH	TWA: 2 mg/m ³
		NIOSH	TWA 10 mg/m ³
		National	No Established Limit
1189-08-8	1,3-butanediol dimethacrylate	OSHA	No Established Limit

		ACGIH	No Established Limit
		NIOSH	No Established Limit
		National	No Established Limit
9003-55-8	Styrene-butadiene polymer	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		National	No Established Limit
112945-52-5	Amorphous fumed silica	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		National	No Established Limit
614-45-9	tert-butyl perbenzoate	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

Wear safety glasses with side shields to protect the eyes. An eye wash station is suggested as a good workplace practice.

Skin

Avoid skin contact. Wear PVC or rubber gloves to keep skin contact to a minimum. Refer to the manufacturer's recommendations regarding the suitability of any gloves used.

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: Opaque light yellow to dark amber

Physical State: Gel

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)	No available information
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
Methacrylic acid (79-41-4)	1,320.00, Rat - Category: 4	No data available	No data available	No data available	No data available
2-propenoic acid, 2-methyl-, cyclohexyl ester (100-43-9)	5,000.00, Rat - Category: 5	No data available	No data available	No data available	No data available
2,6-Di-tert-butyl-p-cresol (128-37-0)	6,001.00, Rat - Category: NA	No data available	No data available	No data available	No data available
1,3-butanediol dimethacrylate (1189-08-8)	No data available	No data available	No data available	No data available	No data available
Styrene-butadiene polymer (9003-55-8)	No data available	No data available	No data available	No data available	No data available
Amorphous fumed silica (112945-52-5)	3,160.00, Rat - Category: 5	No data available	No data available	No data available	No data available

tert-butyl perbenzoate (614-45-9)	4,838.00, Rat - Category: 5	>2,000.00, Rabbit - Category: 5	No data available	4.90, Rat - Category: 4	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
79-41-4	Methacrylic acid	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
>100-43-9	2-propenoic acid, 2-methyl-, cyclohexyl ester	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
128-37-0	2,6-Di-tert-butyl-p-cresol	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
1189-08-8	1,3-butanediol dimethacrylate	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
9003-55-8	Styrene-butadiene polymer	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
112945-52-5	Amorphous fumed silica	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
614-45-9	tert-butyl perbenzoate	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)	---	---
Acute toxicity (inhalation)	---	---
Skin corrosion/irritation	1A	Causes severe skin burns and eye damage.
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	---	---
Aspiration hazard	---	---

11.2.1 Endocrine disrupting properties

This product contains no endocrine disrupting chemicals.

Section 12. Ecological information
12.1. Toxicity

Toxic to aquatic life.

Toxic to aquatic life with long lasting effects.

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
Methacrylic acid (79-41-4)	85.00, Oncorhynchus mykiss	210.00, Acartia tonsa	45.00 (72 hr), Pseudokirchneriella subcapitata	---	86.00
2-propenoic acid, 2-methyl-, cyclohexyl ester (100-43-9)	100.00, Danio rerio	33.80, Daphnia magna	---	---	---
2,6-Di-tert-butyl-p-cresol (128-37-0)	---	---	---	1,000.00	4.50
1,3-butanediol dimethacrylate (1189-08-8)	---	---	---	---	---
Styrene-butadiene polymer (9003-55-8)	---	---	---	---	---
Amorphous fumed silica (112945-52-5)	---	---	---	---	---
tert-butyl perbenzoate - (614-45-9)	1.50, Danio rerio	11.00, Daphnia magna	0.80 (72 hr), Pseudokirchneriella subcapitata	43.00	70.00

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

Section 13. Disposal considerations
13.1. Waste treatment methods

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

Section 14. Transport information


	ADR/RID	IMO / IMDG (Ocean Transportation)	ICAO/IATA
14.1. UN number	UN1760	UN1760	UN1760
14.2. UN proper shipping name	UN1760, Corrosive liquids, n.o.s., (CHEMICAL NAME), 8, III	Corrosive liquids, n.o.s., (CHEMICAL NAME)	Corrosive liquids, n.o.s., (CHEMICAL NAME)
14.3. Transport hazard class(es)	DOT Hazard Class: 8 Sub Class:	IMDG: 8 Sub Class:	Air class: 8 Sub Class:
14.4. Packing group	III	III	III

14.5. Environmental hazards

IMDG Marine Pollutant: Yes; (Methacrylic acid)

14.6. Special precautions for user

No available information

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not Applicable

Section 15. Regulatory information
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.

Section 16. Other information

SDS Revision Date 7/01/2022

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

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.

H302 Harmful if swallowed.

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.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.