

1. Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier :**

Mxbon® 027455

1.2 Relevant identified uses of the substance or mixture and uses advised against :

Intended use : Cyanoacrylate adhesive activator

1.3 Details of the supplier of the safety data sheet :

Cartell Chemical Co., LTD

No. 18 Cheng Gong Street, Min-shyong

Industrial Park, Chia-yi Hsien

(621) Taiwan

Phone : 886-5-220-3715

Fax-no : 886-5-220-3720

E-mail : sales@mxbon.com**1.4 Emergency telephone number :**

Emergency Tel : 886-5-220-3715

2. Hazards identification**2.1 Classification of the substance or mixture**

Classification according to Regulation (EC) No 1272/2008

Flammable liquids	H225 Highly Flammable liquid and vapor.	Category 2
Aspiration hazard	H304 May be fatal if swallowed and enters airways.	Category 1
Skin irritation	H315 Causes skin irritation.	Category 2
Specific target organ toxicity-single exposure	H336 May cause respiratory irritation	Category 3
Hazardous to the aquatic environment-long-term hazard	H411 Toxic to aquatic life with long lasting effects.	Category 1

2.2 Label elements (CLP) : Labeling according to Regulation (EC) No 1272/2008

Hazard pictogram :



Single word :

Danger

Hazard statement :

H225 Highly Flammable liquid and vapor.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

Precautionary statement :

H336 May cause drowsiness or dizziness

H411 Toxic to aquatic life with long lasting effects

P102 Keep out of reach of children.

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

P233 Keep container tightly closed.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/...

P303+P361+P353 IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN with water [or shower].

P331 Do NOT induce vomiting.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

2.3 Other hazards :

None if used properly.

3. Composition/information on ingredients

General chemical description :

Cyanoacrylate adhesive activator

Base substances of preparation :

Organic solvent

Declaration of the ingredients according to CLP (EC) No 1272/2008 :

Hazardous components CAS-No.	EINECS Number Index Number REACH-Reg No.	content	Classification
n-Heptane 142-82-5	205-563-8 601-008-00-2 -	>80-<100%	Flammable liquids 2 H225 Aspiration hazard 1 H304 Skin irritation 2 H315 Specific target organ toxicity – single exposure 3 H336 Acute hazards to the aquatic environment 1 H400 Chronic hazards to the aquatic environment 1 H410

For full text of the H – statements and other abbreviations see section 16 “Other information”.

4. First aid measures

4.1 Description of first aid measures

Inhalation :	Move to fresh air. Seek medical advice.
Skin contact :	Rinse with running water and soap. Seek medical advice.
Eye contact :	Rinse immediately with plenty of running water (for 10 minutes) Seek medical attention if necessary.
Ingestion :	Rinse mouth, drink 1-2 glasses of water, do not induce vomiting, consult a doctor.

4.2 Most important symptoms and effects, both acute and delayed

Vapors may cause drowsiness and dizziness.
Skin : Redness, inflammation.

4.3 Indication of any immediate medical attention and special treatment needed

See section : Description of first aid measures.

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media :	Foam, extinguishing powder, carbon dioxide.
Unsuitable extinguishing media :	High volume water jet.

5.2 Special hazards arising from the substance or mixture

Oxides of carbon, oxides of nitrogen, irritating organic vapors.

5.3 Advice for firefighters

Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel :	Use personal protective clothing.
For emergency responders :	Ensure adequate ventilation. Avoid contact with eyes or skin.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and material for containment and cleaning up

Wipe up using absorbent material. Store in a partly filled, closed container until disposal.

6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

7. Handling and storage

7.1 Precautions for safe handling

Recommendations :	Avoid contact with eyes, skin and clothing. Avoid breathing vapor and mists. Wash thoroughly after handling. Keep away from sources of ignition – no smoking. Vapors should be extracted to avoid inhalation.
Advice on general occupational hygiene :	Wash hands and face before eating. Do not eat, drink or smoke while working. Good industrial hygiene practices should be observed.

7.2 Conditions for safe storage, including any incompatibilities

Keep in a cool, well-ventilated area away from heat, sparks and open flame.

7.3 Specific end use(s)

Cyanoacrylate adhesive activator

8. Exposure controls/ personal protection

8.1 Control parameters

Valid for Great Britain

Basis UK EH40 WELs

Ingredient	ppm	mg/m ³	Type	Remarks
n-Heptane 142-82-5	500	-	TWA (8 h)	EH40 WEL
n-Heptane 142-82-5	500	2.085	TWA (8 h)	ECTLV

8.2 Exposure controls

8.2.1 Appropriate Engineering

Controls :

If general ventilation is insufficient to maintain vapor concentration below established exposure limits, use protective downdraft exhaust ventilation.

8.2.2 Individual protection

measures

General protective and hygienic measures

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

Eye/Face protection

Safety glasses with side shields or chemical splash goggles.

Skin protection

Suitable protective clothing.

Hand protection

The use of chemical resistant gloves such as Nitrile are recommended.

Respiratory protection

If there is a potential to exceed exposure limits, use an approved respirator.

8.2.3 Environmental exposure controls

Do not empty into drains or the aquatic environment.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance :	Liquid, colorless
Odor :	Aliphatic
Odor threshold :	Not available.
pH :	Not applicable
Melting point/freezing point :	-91°C
Initial boiling point and boiling range :	96-98°C
Flash point :	-4°C (Method : Tag closed Cup)
Evaporation rate (Ether =1) :	2.7
Flammability :	Not available.

Upper/lower flammability :	1.05~6.7%
Vapor pressure (25°C) :	40 mmHg
Vapor density (Air=1) :	Approximately 3.45
Relative density :	0.679 g/cm ³
Solubility :	Not miscible.
Partition coefficient :	Not applicable
Auto-ignition temperature :	204°C
Decomposition temperature :	Not applicable

9.2 Other information

Specific gravity :	0.679 (25°C)
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10. Stability and reactivity

10.1 Reactivity

Strong oxidizing agents.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

See section reactivity.

10.4 Conditions to avoid

Stable under normal conditions of storage and use.

10.5 Incompatible materials

No data is available on this product.

10.6 Hazardous decomposition products

No data is available on this product.

11. Toxicological information

11.1 Information on toxicological effects

General toxicological information :

The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation 1272/2008/EC. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

Oral toxicity :

Small amounts of liquid aspirated into the respiratory system during ingestion or from vomiting may cause bronchopneumonia or pulmonary oedema.

Inhalative toxicity :

May cause headache and dizziness.

Skin irritation :

Causes skin irritation

Eye irritation :

Prolonged or repeated contact may cause eye irritation.

Germ cell mutagenicity :

Hazardous components	Result	Type of study/	Metabolic	Species	Method
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CAS-No.		Route of administration	activation/ Exposure time		
n-Heptane 142-82-5	negative	Bacterial reverse mutation assay (e.g. Ames test)	with and without		

Carcinogenicity :

According NTP, OSHA and IARC, the substance is not carcinogen.

12. Ecological information
12.1 Toxicity

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
n-Heptane 142-82-5	LC50	220 -270 mg/L	Fish	48 hr	Leuciscus idus	OECD Guideline 203 (Fish, Acute Toxicity Test)
n-Heptane 142-82-5	EC50	1.5 mg/L	Daphnia	48 hr	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

12.2 Persistence and degradability

The product is not biodegradable.

12.3 Bioaccumulative potential

Hazardous components CAS-No.	LogKow	Bioconcentration Factor (BCF)	Temperature	Method
n-Heptane 142-82-5	4.66			

12.4 Mobility in soil

The product is insoluble and sinks in water.

12.5 Results of PBT and vPvB assessment

Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

12.6 Other adverse effects

No further relevant information available.

13. Disposal considerations
13.1 Waste treatment methods

Waste treatment containers :

Dispose according local, province/state, country's governmental regulations.

Appropriate methods of waste treatment of substance :

Cured adhesive : Disposal of as water insoluble non-toxic solid chemical in authorized landfill or incinerate under controlled conditions.

Appropriate methods of waste treatment of packaging :

After use, tubes, cartons, and bottles containing residual product should be disposed of as chemically contaminated waste in an authorized legal land fill site or incinerated. Disposal must be made according to official

regulations.

Sewage disposal : Dispose according local, province/state, country's governmental regulations.

Special precautions : Not available.

Relevant community/national/regional provisions : Not available.

14. Transport information

	ADR/RID	AND/ADNR	IMDG	IATA
14.1 UN Number	UN 1206	UN 1206	UN 1206	UN 1206
14.2 UN Proper Shipping Name	HEPTANE	HEPTANE	HEPTANE	HEPTANE
14.3 Transport hazard class(es)	3	3	3	3
14.4 Packing group	II	II	II	II
14.5 Environmental hazards	Not available	Not available	Not available	Not available
14.6 Special precautions for user	Not available	Not available	Not available	Not available

15. Regulatory information

15.1 Safety, health and environmental regulations/ legislation specific for the substance or mixture

EU regulations : Regulation (EC) No 1907/2006
Regulation (EC) No 1272/2008

Authorizations and/or Restrictions on Use This product is not included on the Candidate List of Substances of Very High

Authorizations : Concern for Authorization

Restrictions on use : The product is not subject to restrictions under Annex XVII of REACH Regulation.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out.

16. Other information

The labeling of the product is indicated in Section 2. The full text of all abbreviations indicated by codes in this safety data sheet are as follows :

Relevant H-phrases (Number and full text) :

H301 Toxic if swallowed.

H304 May be fatal if swallowed and enters airways.

H311 Toxic in contact with skin.

H315 Causes skin irritation.

H331 Toxic if inhaled.

H336 May cause drowsiness or dizziness.

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

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

Relevant P-phrases (Number and full text) :

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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

P302+P350 If on skin : Wash with plenty of soap and water.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties. Substances have been classified in accordance with Regulation (EC) 1272/2008 (CLP).