

1. Product and company identification

Product name: Tacusil EPA2711FG Part B

Manufacturer or supplier's details:

Company: Kitpackers Trading (Huizhou) Co., Ltd

Address: Room 9,11 Floor, Chuangxin Building Block 1, No.1, Technology Road, Technology Chuangxin Park, West of Dayabay, Huizhou City, Guangdong, P.R. China 516211

Telephone: (86 752) 5533798

Product Safety Department: info@tacusil.com.hk

Emergency telephone number: 0532-83889090 (24h)

2. Hazards identification

Emergency Overview:

Harmful if swallowed and contact with skin.
Cause severe skin burns and eye damage May cause an allergic skin reaction.
Suspected of damaging fertility or the unborn child. May cause respiratory irritation. Harmful to aquatic life with long lasting effects.

GHS Classification:

<u>Hazard Class</u>	<u>Hazard Category</u>
Acute toxicity, oral	Category 4
Acute toxicity, dermal	Category 4
Acute toxicity, inhalation	Category 1
Skin corrosion/irritation	Category 1B
Serious eye damage/eye irritation	Category 1
Skin sensitizer	Category 1
Specific Target organ toxicity (Single exposure)	Category 3
Chronic hazards to the aquatic environment	Category 3

Label elements

Hazard pictogram::

Signal word:



Danger

Hazard statement

H 302 Harmful if swallowed.
H 312 Harmful in contact with skin.
H330 Fatal if inhaled
H314 Cause severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H 319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

[Prevention]:

.P264 .Wash hands thoroughly after handling
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P260 Do not breathe dust/fume/gas/mist/vapors/spray.
.P 271 Use only outdoors or in a well-ventilated area
P284 [in case of inadequate ventilation] wear respiratory protection.
P272 Contaminated work clothing should not be allowed out of workplace.
P273 Avoid release to the environment.

[Response]:

P301+P317 If swallowed: Get medical help.
P330 Rinse mouth
P301+P330+P331 If swallowed: Rinse mouth. Do NOT vomit.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P316 Get emergency medical help immediately.
P320 Specific treatment urgent (See the information on this label)
P303+P361+P354 If on skin (or hair): Take off immediately all contaminated clothing. Immediately Rinse with water for several minutes.

P363 Wash contaminated clothing before reuse

P301+P330+P331 IF SWALLOWED : Rinse mouth. Do NOT vomiting.

P316 Get emergency medical help immediately.

P321 Specific treatment (See supplemental first aid instructions on this label)

P305+P354+P338 IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P333+P317 if skin irritation or rash occurs: Get medical help.

P319 Get medical help if you feel unwell.

[Storage]

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up

[Disposal]:

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

3. Composition / information on ingredients

General description: mixture

Component	Concentration (% w/w)	CAS No.
3-aminomethyl-3,5,5-trimethylcyclohexylamine	<55	2855-13-2
4,4'-methylenebis(cyclohexylamine)	<55	1761-71-3
AMORPHOUS SILICA	<10	112945-52-5

4. First aid measures

If inhaled:

Remove victim from exposure. If breathing is difficult, administer oxygen.
Seek immediate medical advice.

In case of skin contact:

In case of contact, immediately flush skin with soap and plenty of water.
Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

In case of eye contact:

Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.

If swallowed:

DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water

5. Fire fighting measures

Extinguishing media:

Water spray (fog), foam, dry chemical or carbon dioxide

Hazardous combustion products:

Oxides of carbon. Oxides of nitrogen Irritating vapors

Specific extinguishing methods:

Personnel in vicinity and downwind should be evacuated. Burning produces obnoxious and toxic fumes. In case of fire, keep containers cool with water spray. Closed containers may rupture (due to build up of pressure) when exposed to extreme heat. Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

6. Accidental release measures

Emergency measures:

Do not allow product to enter sewer or waterways.

Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment. Follow safe handling advice and personal protective equipment recommendations.

Environmental precautions:

Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material. For large spills, provide dyking or other appropriate contain-ment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absor-bent. Local or national regulations may apply to releases and dis-posal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.

7. Handling and storage

Advice on safe handling:

Ensure good ventilation of the work station, ventilate curing ovens to prevent emissions in the workplace. Wear personal protective equipment. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

Advice on Storage:

Store in a cool, dry place.Ensure that storage and workrooms are adequately ventilated. Must be stored in a room with spill collection facilities .Keep away from heat and direct sunlight.

8. Exposure controls / personal protection

Components with workplace control parameters:

No data

Occupational exposure limits of decomposition products:

No data

Engineering controls:

Provide local and general exhaust ventilation to effectively remove and prevent buildup of any vapors or mists generated from the handling of this product.

Respiratory protection:

Suitable breathing mask when there is inadequate ventilation.

Suitable respiratory protection: Filter type: A

Eye protection:

Safety goggles or safety glasses with side shields

Body protection:

Use chemical resistant, impermeable clothing including gloves and either an apron or body suit to prevent skin contact.

Hand protection:

Suitable protective gloves.

Other protection:

Wash off any dirt that gets onto the skin with lots of soap and water, skin care. Use solvent-resistant skin protection cream. Do not breathe dust and vapors.

9. Physical and chemical properties

Appearance	Clear or light yellow
Physical state:	Liquid
pH:	No data available
Initial boiling point and boiling range (°C) :	No data available
Flash point (°C) :	No data available
Upper explosion limit:	No data available
Lower explosive limit:	No data available
Vapor pressure (kPa) :	No data available
Relative density:	0.98
Solubility in water:	No data available
Odor:	No data available
Melting point (°C) :	No data available
Auto-ignition temperature: (°C) :	No data available
Decomposition temperature (°C) :	No data available
Flammability (solid, gas):	No data available
Vapor density:	No data available
Partition coefficient: n-octanol/water (lg P) :	No data available
Viscosity:	80cps

10. Stability and reactivity

Chemical stability:

Stable under normal conditions

Hazardous polymerization:

No dangerous reactions known under normal conditions of use.

Conditions to avoid

Danger of decomposition if exposed to heat.

Avoid mixing resin (Part A) and curing agent (Part B) unless you plan to use immediately.

Failure to observe these precautions may result in excessive heat build-up causing an exotherm.concentrations.

Decomposition products:

Oxides of carbon. Nitrogen oxides. Irritating vapors.

11. Toxicological information

Acute oral toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Species	Method
4,4'- Methylenebis(cyclohexyla mine) 1761-71-3	LD50	380 mg/kg	rat	EPA OPP 81-1 (Acute Oral Toxicity)

Acute dermal toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Species	Method
4,4'- Methylenebis(cyclohexyla mine)	LD50	2.110 mg/kg	rabbit	not specified

Acute inhalative toxicity:

No data available.

Skin corrosion/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
4,4'- Methylenebis(cyclohexyla mine)	corrosive	2,75 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation/ Corrosion)

Serious eye damage/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
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4,4'-Methylenebis(cyclohexylamine) 1761-71-3	Category 1 (irreversible effects on the eye)		rabbit	not specified
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Respiratory or skin sensitization:

No data available

Germ cell mutagenicity:

No data available

Carcinogenicity

No data available.

Reproductive toxicity:

No data available

STOT-single exposure:

No data available

STOT-repeated exposure:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result / Value	Route of application	Exposure time / Frequency of treatment	Species	Method
4,4'-Methylenebis(cyclohexylamine) 1761-71-3	NOAEL 15 - 50 mg/kg	oral: gavage	52 d daily	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction /

Aspiration hazard:

No data available.

12. Ecological information

General ecological information:

Do not empty into drains / surface water / ground water.

Toxicity

Toxicity (Fish):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
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4,4'-Methylenebis(cyclohexylamine) 1761-71-3	LC 50	> 100 mg/l	96h	Leuciscus idus	DIN 38412-15
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Toxicity (Daphnia):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
4,4'-Methylenebis(cyclohexylamine) 1761-71-3	EC 50	7,07 mg/l	48h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

Chronic toxicity to aquatic invertebrates

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
4,4'-Methylenebis(cyclohexylamine) 1761-71-3	NOEC	4 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)

Toxicity (Algae):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
4,4'- Methylenebis(cyclohexylamin e) 1761-71-3	EC50	> 140 - 200 mg/l	72h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	DIN 38412-09
4,4'- Methylenebis(cyclohexylamin e) 1761-71-3	EC10	100 mg/l	72h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	DIN 38412-09

Toxicity to microorganisms

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
4,4'- Methylenebis(cyclohexylamin e) 1761-71-3	EC20	> 1.000 mg/l	3 h	activated sludge, industrial	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)

Persistence and degradability

The product is not biodegradable.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
4,4'- Methylenebis(cyclohexylamin e) 1761-71-3	not readily biodegradable.	aerobic	0 %	28 d	OECD Guideline 301 C (Ready

					Biodegradability: Modified MITI Test (I))
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Bioaccumulative potential

No data available.

Mobility in soil

Cured adhesives are immobile.

Hazardous substances CAS-No.	LogPow	Temperature	Method
4,4'-Methylenebis(cyclohexylamine) 1761-71-3	2, 2	23 ° C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)

13. Disposal considerations

Product disposal:

DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR IN TO ANY BODY OF WATER All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.

Contaminated packaging:

Empty containers should be recycled or otherwise disposed of by an approved waste management facility. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. Do not re-use containers for any purpose.

14. Transport information

Road transport CN_DG:

Hazard class or division	8
Packing group::	II
UN#:	UN2735
Proper shipping name:	AMINES, LIQUID, CORROSIVE, N.O.S.

Marine transport IMDG:

Hazard class or division	8
Packing group::	II
UN#:	UN2735
Seawater pollutant:	Yes
Proper shipping name:	AMINES, LIQUID, CORROSIVE, N.O.S.

Air transport IATA:

Hazard class or division	8
Packing group::	II
UN#:	UN2735
Packaging instructions (passenger):	851
Packaging instructions (cargo):	851
Label	8
Proper shipping name:	AMINES, LIQUID, CORROSIVE, N.O.S.

15. Regulatory information

The following laws and regulations lay down provisions in terms of chemicals safety use, storage, transportation, loading/ unloading, classification as well as symbol:

- GB/T 16483: #Safety data sheet for chemical products - Content and order of sections#
- GB/T 17519: Guidance on the compilation of safety data sheets for chemical products
- GB 15258:#General rules for preparation of precautionary label for industrial chemicals#
- GB 30000.2 ~ GB 30000.29: Rules for classification and labelling of chemicals
- GB 13690:#General rule for classification and hazard communication of chemicals#
- GB 12268:#List of dangerous goods#
- GB 6944:#Classification and code of dangerous goods#
- GB 190 #Labels for packages of dangerous goods#
- GBZ 2.1#Occupational Exposure Limits for Hazardous Agents in the Workplace, Part 1, Chemical Hazardous Agents #

16. Other information

For Industrial Only

This materials safety data sheet is offered solely for your information, consideration and investigation. The data described in this SDS consist of data on literature, our acquisitional data and analogical inference by data of similar chemical substance or product. Kitpackers Trading (Huizhou) Co., Ltd. provides no warranties; either expresses or implied, and assumes no responsibility for the accuracy or completeness of the data contained herein.