

1. Identification of the substance/preparation and of the company/undertaking

Product name: Tacusil EPA2701 Part A

Intended use: Adhesive

Manufacturer/Importer/Distributor Representative Company

Kitpackers Trading (Huizhou) Co., Ltd.
Room 9,11 Floor, Chuangxin Building Block 1, No.1, Technology Road,
Technology Chuangxin Park, West of Dayabay, Huizhou City,
Guangdong, P.R. China (86752) 5533798

Information Department: info@tacusil.com.hk

Emergency Telephone Number:

North America - Chemtrec: 1-800-424-9300 (24 hours)

International - Chemtrec: 01-703-527-3887 (24 hours).

2. Hazards identification

Classification of the substance or mixture according to GB 13690-2009 (General rule for classification and hazard communication of chemicals):

<u>Hazard Class</u>	<u>Hazard Category</u>
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Skin sensitizer	Category 1
Acute hazards to the aquatic environment	Category 2
Chronic hazards to the aquatic environment	Category 2
Germ cell mutagenicity	Category 2

Label elements according to GB 15258-2009 (General rules for preparation of precautionary label for chemicals):

Hazard pictogram:



Signal word: Warning

Hazard statement:	<p>H315 Causes skin irritation.</p> <p>H317 May cause an allergic skin reaction.</p> <p>H319 Causes serious eye irritation.</p> <p>H411 Toxic to aquatic life with long lasting effects.</p> <p>H341 Suspected of causing genetic defects.</p>
Prevention:	<p>P261 Avoid breathing dust/fume/gas/mist/vapours/spray.</p> <p>P264 Wash hands thoroughly after handling.</p> <p>P272 Contaminated work clothing should not be allowed out of the workplace.</p> <p>P273 Avoid release to the environment.</p> <p>P203 Obtain, read and follow safety instruction before use.</p> <p>P280 Wear protective gloves, eye protection, and face protection.</p>
Response:	<p>P302+P352 IF ON SKIN: Wash with plenty of water.</p> <p>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P333+P313 If skin irritation or rash occurs: Get medical advice/attention.</p> <p>P337+P313 If eye irritation persists: Get medical advice/attention.</p> <p>P362+P364 Take off contaminated clothing and wash it before reuse.</p> <p>P391 Collect spillage.</p> <p>P318 If exposed or concerned, get medical advice.</p>
Storage:	P405 Store locked up.
Disposal:	P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

3. Composition / information on ingredients

General description: Mixture
Declaration of the ingredients according to GB 13690-2009:

Hazard component CAS-No.	Content	GHS Classification
2-Propenoic acid, 2-methyl-, 7-oxabicyclo[4.1.0]hept-3-ylmethyl ester 82428-30-6	<65%	<p>Skin corrosion/irritation 2 H315</p> <p>Serious eye damage/eye irritation 2A H319</p> <p>Skin sensitizer 1 H317</p> <p>Germ cell mutagenicity 2 H341</p>
reaction product: bisphenol-A-(epichlorhydrin) 25085-99-8	<40%	<p>Skin corrosion/irritation 2 H315</p> <p>Serious eye damage/eye irritation 2A H319</p> <p>Skin sensitizer 1 H317</p> <p>Acute hazards to the aquatic environment 2 H401</p> <p>Chronic hazards to the aquatic environment 2 H411</p>
Silicon dioxide 112945-52-5	<2%	Not Classified

4. First aid measures

Skin contact:	Rinse with running water and soap. Apply replenishing cream. Change all contaminated clothing. If necessary, see a dermatologist.
Eye contact:	Wash with plenty of water immediately and continue for several minutes, holding eyelid open. Consult a doctor.

Inhalation:	Move to fresh air, consult doctor if complaint persists.
Ingestion:	Rinse mouth, drink 1-2 glasses of water, do not induce vomiting, consult a doctor.

5. Fire fighting measures

Hazardous combustion products:	Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. Oxides of nitrogen.
Extinguishing media:	Water spray (fog), foam, dry chemical or carbon dioxide.
Notice and measures for firing fighting:	May liberate large quantities of dense, foul-smelling smoke which may contain unidentified toxic gasses. Wear full protective clothing. Wear self-contained breathing apparatus.

6. Accidental release measures

Emergency measures:	Avoid contact with skin and eyes. Do not empty into drains / surface water / ground water. Wear protective equipment. Ensure adequate ventilation. See advice in section 8
Clean-up methods:	For small spills wipe up with paper towel and place in container for disposal. For large spills absorb onto inert absorbent material and place in sealed container for disposal. Dispose of contaminated material as waste according to Section 13.

7. Handling and storage

Notice for handling:	Avoid skin and eye contact. Do not spray against flames or glowing bodies. Keep away from sources of ignition - no smoking. Extract when the product is heated. Ensure good ventilation/suction at the workplace. Do not spray onto flames or red-hot objects.
Notice for storage:	Keep away from sources of ignition - no smoking. 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. Refer to Technical Data Sheet

8. Exposure controls / personal protection

Control parameters	
Exposure limit values	No data available.
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:	Goggles which can be tightly sealed. and/or facial protection
Body protection:	Wear protective equipment. Protective clothing that covers arms and legs. apron
Hand protection:	Chemical-resistant protective gloves (EN 374). Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374): nitrile rubber (NBR; ≥ 0.4 mm thickness) Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374): nitrile rubber (NBR; ≥ 0.4 mm thickness) This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.
Other protection:	Wash off any dirt that gets onto the skin with lots of soap and water, skin care. Store working clothes separately. Use solvent-resistant skin protection cream. Do not breathe dust and vapors. Extractors are required on all machines used for thermal or for cutting and grinding processes.

Pictograms for recommended PPE:



9. Physical and chemical properties

Physical state:	liquid	Appearance:	Clear or Light yellow
Evaporation rate:	Not available.	Odor:	mild
pH:	Not available.	Melting point:	Not determined
Boiling point:	> 93 °C (> 199.4 °F)	Density:	1.12 g/cm ³
Vapor density:	Not available.	Vapor pressure:	Not available.
Flash point:	> 93 °C (> 199.4 °F)	Ignition temperature:	Not applicable
Lower explosive limit:	Not available.	Upper explosive limit:	Not available.
Solubility in water	Negligible (20 °C)	Viscosity:	18000cps
Auto-ignition temperature:	Not available.	Flammability:	Not available.
Octanol / water distribution coefficient:	Not available.	Decomposition temperature:	Not available.

10. Stability and reactivity

Stability:	Stable under recommended storage conditions.
Conditions to avoid:	Danger of decomposition if exposed to heat. Do not heat mixed adhesive unless you plan to use immediately. Failure to observe these precautions may result in excessive heat build-up causing an exotherm. The exotherm has the potential for release of toxic gasses.
Incompatible products:	Reacts with alcohols and amines. Reacts with oxidants, acids and lyes Reaction with some curing agents may produce an exothermic reaction which in large masses could cause runaway polymerization.
Decomposition products:	Hydrocarbons Irritating vapors. At higher temperature carbon oxides and nitrogen oxides may be generated. Rapid polymerisation may generate excessive heat and pressure. See section 5.
Hazardous polymerization:	May occur.

11. Toxicological information

General toxicological information:
No laboratory animal data available.

Carcinogenicity

No laboratory animal data available.

Acute toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Oxirane, 2,2'-[(1-methylethyliden e)bis(4,1-phenyleneoxyme thylene)] bis-, homopolymer 25085-99-8	LD50 LD5 0	> 2,000 mg/kg > 2,000 mg/kg	oral derma		rat rabbit	not specified not specified

Skin corrosion/irritation:

No laboratory animal data available

Serious eye damage/irritation:

No laboratory animal data available

Respiratory or skin sensitization:

No laboratory animal data available

Germ cell mutagenicity:**Repeated dose toxicity:**

No laboratory animal data available

12. Ecological information**General ecological information:**

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

Toxicity:

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Oxirane, 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis-, homopolymer 25085-99-8	LC50	2 mg/l	Fish	96 h	not specified	OECD Guideline 203 (Fish, Acute Toxicity Test)
Oxirane, 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis-, homopolymer 25085-99-8	EC50	2 mg/l	Fish	96 h	not specified	OECD Guideline 203 (Fish, Acute Toxicity Test)
Oxirane, 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis-, homopolymer 25085-99-8	EC50	> 11 mg/l	Algae	72 h	Not specified	OECD Guideline 201 (Alga, Growth Inhibition Test)
Oxirane, 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis-, homopolymer 25085-99-8	NOEC	4.2 mg/l	Algae	72 h	not specified	OECD Guideline 201 (Alga, Growth Inhibition Test)

Persistence and degradability:

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
Oxirane, 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis-, homopolymer 25085-99-8	not readily biodegradable.	aerobic	5 %	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)

Bioaccumulative potential / Mobility in soil:

No laboratory animal data available

13. Disposal considerations

Product disposal:	Dispose of in accordance with local and national regulations.
Disposal of uncleaned packages:	After use, tubes, cartons and bottles containing residual product should be disposed of as chemically contaminated waste in an authorised legal land fill site or incinerated.

14. Transport information

Road transport CN_DG:

Class:	9
Packing group:	III
Classification code:	
Hazard ident. number:	
UN no.:	3082
Label:	9
Technical name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Marine transport IMDG:

Class:	9
Packing group:	III
UN no.:	3082
Label:	9
EmS:	F-A ,S-F
Seawater pollutant:	Marine pollutant
Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Air transport IATA:

Class:	9
Packing group:	III
Packaging instructions (passenger):	964
Packaging instructions (cargo):	964
UN no.:	3082
Label:	9
Proper shipping name:	Environmentally hazardous substance, liquid, 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.

“Law of the People's Republic of China on Work Safety”

“Law of the People's Republic of China on the Prevention and Treatment of Occupational Diseases”

“Regulation on the Safety Management of Hazardous Chemicals”

“Regulations on License to Work Safety”

16. Other information

Disclaimer: This Safety Data Sheet has been generated in accordance with Chinese law only. It provides information on the chemical product in the aspects of safety, health, environment, etc. recommending preventive and protective measures and countermeasures in case of emergency. The information contained herein does not constitute a guarantee concerning the properties of the material. No warranty or representation of any kind is given with respect to the substantive or export laws of any other jurisdiction or country. Please confirm that the information provided herein conforms to the substantive export or other law of any other jurisdiction prior to export.