

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

Product name : Tacusil PUA 501 Part B

Manufacturer or supplier's details

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: Product Safety 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)

Recommended use of the chemical and restrictions on use

Recommended use : Adhesives

2. Hazards identification

Classification (EC 1272/2008)

Skin Irrit. 1 - H317;

Acute Tox. 4 – H332

STOT SE 3– H335

Label In Accordance With (EC) No. 1272/2008

Hazard pictograms :



Signal word : Warning

Hazard statements : H317 May cause an allergic skin reaction..
H332 Harmful if inhaled.
H335 May cause respiratory irritation.

Precautionary statements :

Prevention:

P261 Avoid breathing vapour/spray.

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/ eye protection/ face protection.

Response:

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

P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.

P333+P313 If skin irritation or rash occurs:

Get medical advice/attention.

P321 Specific treatment (see information on this label).

P362+P364 Take off contaminated clothing and wash it before reuse.

P312 Call a poison center or doctor if you feel unwell.

P391 Collect spillage

Storage

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

P405 Store locked up

Disposal

P501 Dispose of contents/container with local / national regulations

Other hazards

No other hazards.

3. Composition / information on ingredients

Substance / Mixture : Mixture

Chemical name	CAS-No.	Concentration (% w/w)
2-Oxepanone, polymer with 1,4-butanediol	31831-53-5	10~30
HDI oligomers	28182-81-2	70~100

4. First aid measures

Description of first aid measures

General information

Get medical attention if any discomfort continues.

Inhalation

Remove victim from exposure to fresh air. Keep person at rest. Provide oxygen if person is not breathing.

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

Give artificial respiration if not breathing.

If breathing is difficult, administer oxygen.

Seek immediate medical advice.

Ingestion

If victim is unconscious; never give anything by mouth.

If victim is conscious; rinse out mouth and give victim small amounts of water.

Seek medical treatment in case of complaints.

Skin contact

Remove all contaminated clothing and wash before reuse.

Wash contaminated skin with water and soap and rinse thoroughly.

Seek immediate medical advice.

Eye contact

Rinse opened eyes under running water for at least 15 minutes.

Remove contact lenses if present and easy to do so; continue rinsing.

Seek medical treatment in case of complaints

Indication of any immediate medical attention and special treatment needed

After frequent or high intense exposure, the following medical tests are recommended:

skin tests respiratory system tests Check section 11 Toxicological Information for further relevant information.

5. Fire fighting measures

Extinguishing media

Use fire fighting measures and extinguishing agents that suit the environment.

In case of fire, suitable extinguishing agents are:

Alcohol resistant foam.

Dry chemical or fire-extinguishing powder.

Carbon dioxide (CO₂).

Water spray or water fog.

Unsuitable extinguishing media

Avoid water in straight hose stream, which will scatter and spread fire.

Special hazards arising from the substance or mixture

Hazardous combustion products

Will not burn unless preheated.

In case of fire, following can be released:

Carbon dioxide (CO₂) and Carbon monoxide (CO)

Unusual Fire & Explosion Hazards

Sealed containers at elevated temperatures may rupture explosively and spread fire due to polymerization.

Advice for firefighters

Special Fire Fighting Procedures

Evacuate area of unprotected personnel. Fight advanced or massive fires from safe distance or protected location.

Use water to keep fire exposed containers cool and disperse vapours. Keep run-off water out of sewers and water sources. Dike for water control.

Protective equipment for fire-fighters

Self contained breathing apparatus and full protective clothing must be worn in case of fire. Extinguish at a up wind place.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Do not breathe gas, vapors, dusts or mists if their inhalable particles occur during use.

Ensure personnel take precautions for their personal protection during clean up;

see Section 8 for the specific requirements.

Environmental precautions

No further relevant information.

Methods and material for containment and cleaning up

Ensure adequate ventilation.

Eliminate all ignition sources.

Keep unauthorized personnel away.

For large spills:

Shut off source of leak if safe to do so.

Dike and contain.

Remove with vacuum trucks or pump to storage/salvage vessels.

Use an open container to allow for CO₂ escape.

Absorb residues with liquid-binding materials.

For small spills:

Ventilate and wash area after clean-up is complete.

Collect spills in suitable and properly labeled containers.

Do not use solvents unless following safe handling practices and within the recommended exposure guidelines.

Dispose contaminated chemicals as waste according to Section 13.

Reference to other sections

For personal protection, see section 8. For waste disposal, see section 13.

7. Handling and storage

Precautions for safe handling

Obtain special instruction before use; do not handle until all safety precautions have been read and understood.

Do not breathe gas, vapors, dusts or mists if their inhalable particles occur during handling.

Ensure good ventilation and/or exhaustion at workplace.

Keep away from incompatible material(s).

Avoid any release into the environment.

Observe all the personal protection requirements in Section 8.

Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well ventilated area. Keep away from sources of heat and incompatible materials. Keep container tightly sealed when not in use.

Specific end use(s)

The identified uses for this product are detailed in Section 1.2

8. Exposure controls / personal protection

Control parameters

Exposure controls

No data available.

Engineering measures

Ventilation rates should be matched to conditions.

If applicable, use process enclosure(s), local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.

Respiratory equipment

Wear respiratory protection with combination filter at high concentration. At emergency, respiratory protection with air supply must be use.

Hand protection

Impervious gloves (Neoprene, latex, polypropylene or chloroprene).

Eye protection

Wear tight-fitting goggles or face shield.

Other Protection

Provide eyewash, quick drench.

Hygiene measures

Wash thoroughly after handling. Form a good habit.

Personal protection

People unprotected as required are not allowed into the work area.

Skin protection

Wear apron or protective clothing in case of splashes.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance Viscous liquid.

Colour Colourless.

Odour Not determined.

Solubility Partially Insoluble.

Initial boiling point and boiling range (°C) Not determined.

Melting point (°C) Not determined.

Relative density 1.13 25°C

Vapour density (air=1) Not determined.

Vapour pressure Not determined.

Evaporation rate Not determined.

pH-Value, Diluted Solution Not determined.

Decomposition temperature (°C) Not determined.

Flash point (°C) Not determined.

Auto Ignition Temperature (°C) Not determined.

Flammability Limit - Lower(%) Not determined.

Flammability Limit - Upper(%) Not determined.

Partition Coefficient Not determined.

(N-Octanol/Water)

Viscosity 1000cps

10. Stability and reactivity

Reactivity

No data available.

Chemical stability

Material is stable under normal conditions.

Possibility of hazardous reactions

Hazardous Polymerisation

Polymerization may occur under certain conditions.

Polymerisation Description

Polymerizes generating heat.

Conditions to avoid

Heat , Oxidizers. Acid

Incompatible materials

Water

Amines.

Bases (Alkalis)

Hazardous decomposition products

None known.

11. Toxicological information

Information on toxicological effects

Toxicological information

28182-81-2 Hexamethylene diisocyanate homopolymer		
Dermal LD50	(rabbit) (> 5000 mg/kg)	Reference: Bayer (M)SDS
28182-81-2 Hexamethylene diisocyanate homopolymer		
Inhalative LC50/4 h	18.5 mg/l (rat) (LC50/1 hour)	Reference: NLM Toxnet
· Skin Corrosion or Irritation		
28182-81-2 Hexamethylene diisocyanate homopolymer		
Corrosion/Irritation	slightly irrit. (rabbit) (Draize test; test detail not available) Reference: Bayer (M)SDS (2011).	
28182-81-2 Hexamethylene diisocyanate homopolymer		
Damage/Irritation	slightly irrit. (rabbit) (Draize test; test detail not available) Reference: Bayer (M)SDS (2011).	
· Respiratory or Skin Sensitization		
28182-81-2 Hexamethylene diisocyanate homopolymer		
Sensitization	Skin	sensitizing (guinea pig) (OECD TG 406; test detail not available) Reference: Bayer (M)SDS (2011).
	Respiratory	(No data available)
· OSHA-Ca (Occupational Safety & Health Administration)		
None of the ingredients is listed.		
· Germ Cell Mutagenicity		
28182-81-2 Hexamethylene diisocyanate homopolymer		
Mutagenicity	(salmonella typhimurium) In Vitro (AME tests) - negative with and without metabolic activation Reference: Bayer (M)SDS (2011).	
· Carcinogenicity		
28182-81-2 Hexamethylene diisocyanate homopolymer		
Carcinogenicity	negative (Test species: n/a) Not listed as a carcinogen according to ACGIH, IARC, NTP, or OSHA.	
· Reproductive Toxicity		
28182-81-2 Hexamethylene diisocyanate homopolymer		
Reproductive Toxi.	(No data available)	

· Specific Target Organ Toxicity - Single Exposure	
28182-81-2 Hexamethylene diisocyanate homopolymer	
STOT-Single	(No data available)
· Specific Target Organ Toxicity - Repeated Exposure	
28182-81-2 Hexamethylene diisocyanate homopolymer	
STOT-Repeated	(No data available)
· Aspiration Hazard	
28182-81-2 Hexamethylene diisocyanate homopolymer	
Aspiration Hazard	(No data available)

Potential Health Effect(s): No further relevant information; classification is not possible.

12. Ecological information

Ecotoxicity

· Aquatic Environmental Toxicity	
28182-81-2 Hexamethylene diisocyanate homopolymer	
Algae Toxicity	> 1000 mg/l (<i>Scenedesmus subspicatus</i>) (EC50 (72 hrs))
Crustacean	> 100 mg/l (<i>Daphnia magna</i> (water flea)) (EC0 (48 hrs))
Toxicity Fish	> 100 mg/l (<i>Brachydanio rerio</i> (Zebra fish)) (LC0 (96 hrs)) Reference: Bayer (M)SDS (2011).
Toxicity	
· Degradability and Stability	
28182-81-2 Hexamethylene diisocyanate homopolymer	
Biodegradation	not biodegrad. (Test species: n/a) (28 days) The substance is not biodegradable. Reference: Bayer (M)SDS
Persistence	(2011). (Test species: n/a) The substance is persistent. Reference: Canada DSL
Photodegradation	(2007). (No data available)
Stability in water	(No data available)
· Bioaccumulation and Distribution	
28182-81-2 Hexamethylene diisocyanate homopolymer	
BCF	(No data available) The substance is not bioaccumulative. Reference: Canada DSL (2007).
Koc LogPow	(No data available) (No data available)

Partition coefficient

No data available

Mobility in soil

Mobility:

No data available

Results of PBT and vPvB assessment

Not applicable.

Other adverse effects

No information required.

13. Disposal considerations

General information

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

Waste treatment methods

Generation of waste should be avoided or minimized wherever possible.

Chemical waste, even small quantities, is neither allowed to be poured down drains, sewage system or waterways; nor disposed with household garbage.

Dispose of contents/containers in accordance with local, regional, national, and international regulations..

14. Transport information

UN-Number Not regulated for transport; not applicable.

DOT, ADR, IMDG, IATA

UN Proper Shipping Name Not applicable.

DOT, ADR, IMDG, IATA

Transport hazard class(es) Not applicable.

DOT, ADR, ADN, IMDG, IATA

Class Not applicable.

Packing group Not applicable.

DOT, ADR, IMDG, IATA

Environmental Hazards: Not applicable.

Special Precautions: Not applicable.

Transport in Bulk according to Annex II of

MARPOL73/78 and the IBC Code Not applicable.

15. Regulatory information

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

National Regulations

Australia-Australian Inventory of Chemical Substances (AICS)

Canada-Domestic Substance List (DSL)/Non Domestic Substances List(NDSL)

China-Inventory of Existing Chemical Substances in China (IECSS)

Europe-European Inventory of Existing Commercial Chemical Substances(EINECS)/European List of Notified Chemical

Substances(ELINCS)

Japan-Inventory of Existing and New Chemical Substances (ENCS)

Korea-Existing Chemicals List(ECL)

New Zealand-New Zealand Inventory

Philippines-Philippine Inventory of Chemicals and Chemical Substances(PICCS)

United States & Puerto Rico-Toxic Substances Control Act(TSCA) Inventory

Chemical Safety Assessment

No chemical safety assessment has been carried out.

16. Other information

Abbreviations and acronyms used in the safety data sheet

MAC: Maximum Allowable Concentration.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

IMDG: International Maritime Dangerous Goods.

ICAO/IATA: International Air Transportation Association.

CAS: Chemical Abstracts Service.

LC50/LD50: Lethal Concentration 50%/Lethal Dose 50%.

STOT:Specific target organ toxicity.

General information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.