

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

Product name : Tacusil PUA 505TC Black 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 of the substance or mixture according to GHS

| <u>Hazard Class</u>               | <u>Hazard Category</u> |                              |
|-----------------------------------|------------------------|------------------------------|
| Acute toxicity ( oral )           | Category 4             |                              |
| Skin corrosion/irritation         | Category 2             |                              |
| Serious eye damage/eye irritation | Category 2A            |                              |
| Respiratory sensitizer            | Category 1             |                              |
| Skin sensitizer                   | Category 1             |                              |
| Carcinogenicity                   | Category 2             |                              |
| Specific target organ toxicity    | Category 3             | respiratory tract irritation |
| - single exposure                 |                        |                              |
| Specific target organ toxicity    | Category 2             |                              |
| - repeated exposure               |                        |                              |

#### Label elements according to GHS:

##### Hazard pictogram:



Signal word: Danger

#### Hazard statement

- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 May cause respiratory irritation.
- H351 Suspected of causing cancer.
- H373 May cause damage to organs through prolonged or repeated exposure

**[Prevention]:**

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P264 Wash hands 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.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P284 [In case of inadequate ventilation] wear respiratory protection.

**[Response]:**

- P302+P352 IF ON SKIN: Wash with plenty of water.
- P304+P340+P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P362+P364 Take off contaminated clothing and wash it before reuse.

**[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

| Chemical name                           | Concentration (% w/w) | CAS#         |
|---|-----------------------|--------------|
| HDT                                     | 30-60%                | Trade secret |
| kaolin                                  | 30-50%                | 1332-58-7    |
| o-(p-Isocyanatobenzyl)phenyl isocyanate | 30-50%                | 5873-54-1    |

## 4. First aid measures

### Skin contact:

Remove contaminated clothing and footwear. Immediately flush skin with plenty of water (using soap, if available). For severe exposures, get under safety shower after removing clothing, then get medical attention. For lesser exposure, seek medical attention if irritation develops or persists after area is washed. Wash clothing before reuse. Thoroughly clean shoes before reuse.

### Eye contact:

Flush with copious amounts of water, preferably, lukewarm water for at least 15 minutes, holding eyelids open all the time. Get medical attention.

### Inhalation:

Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention. Asthmatic-type symptoms may develop and may be immediate or delayed up to several hours.

### Ingestion:

Do not induce vomiting. Rinse the mouth. Drink 1-2 glasses of water. Never give anything by mouth to an unconscious person. Get medical attention.

## 5. Fire fighting measures

### Hazardous combustion products:

Oxides of carbon.  
Oxides of nitrogen. Hydrogen cyanide. Isocyanate vapors Toxic fumes.  
Irritating vapors.

### Extinguishing media:

Foam, dry chemical or carbon dioxide.

### Fire-fighting method:

In case of fire, keep containers cool with water spray

### Notice and measures for fire fighting:

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. During a fire, MDI vapors and other irritating, highly toxic gases may be generated by thermal decomposition or combustion.

## 6. Accidental release measures

### Emergency measures:

Do not allow product to enter sewer or waterways. **lean-up methods:**

Evacuate and ventilate spill area; dike spill to prevent entry into water system; wear full protective equipment during clean-up. If temporary control of isocyanate vapor is required, a blanket of protein foam (available at most fire departments) may be placed over spill.

Large quantities may be pumped into closed, but not sealed containers for disposal.

For minor spills, absorb isocyanates with sawdust or other absorbent, shovel into suitable unsealed containers, transport to well ventilated area (outside) and treat with neutralizing solution: mixture of 80% water and 20% non-ionic surfactant Tergitol TMN-10; or 90% water, 3-8% concentrated ammonia and 2% detergent. Add about ten parts of neutralizer per part of isocyanate, with mixing. Allow to stand uncovered for 48 hours to let carbon dioxide escape.

Decontaminate floor with decontamination solution letting stand for at least 15 minutes.

## 7. Handling and storage

### Notice for handling:

Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling.

Exposure to vapors of heated MDI can be extremely dangerous.

Use only with adequate ventilation.

Keep container closed.

### Notice for storage:

Refer to Technical Data Sheet

## 8. Exposure controls / personal protection

### Control parameters

**Exposure limit values** Not available

**Engineering controls:** Use only in well ventilated areas.

### Respiratory protection:

Concentrations greater than the TLV can occur when MDI is sprayed, heated or used in a poorly ventilated area. In such cases, or whenever concentrations of MDI exceed the TLV, respiratory protection must be worn. Observe OSHA regulations for respirator use (29 CFR 1910.134).

A positive pressure, supplied-air respirator or a self-contained breathing apparatus is recommended.

In situations where MDI is not sprayed, heated, or used in a poorly ventilated area, and a supplied-air or self-contained breathing apparatus is unavailable or its use impractical, at least an air-purifying cartridge and particulate pre-filters must be worn.

However, this should be permitted only for short periods of time (less than one hour) at relatively low concentrations (at or near the TLV).

However, due to the poor warning properties of MDI, proper fit and timely replacement of filter elements must be ensured.

**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:** The selection of PPE shall at least compliant with "Law of the People's Republic of China on Prevention and Control of Occupational Diseases" and "Code of practice for selection of personal protective equipments"

(GB/T 11651-2008).

Pictograms for recommended PPE:



## 9. Physical and chemical properties

|   |                   |
|---|-------------------|
| Appearance                                      | Brown             |
| 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:                               | 1.54              |
| 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 |

## 10. Stability and reactivity

**Stability :** Stable under normal conditions of storage and use.

**Conditions to avoid:**

Contamination with water.

Keep away from heat, ignition sources and incompatible materials.

**Incompatible products:**

Water. Amines. Strong bases. Alcohols.

Will cause some corrosion to copper alloys and aluminum.

**Decomposition products:**

Oxides of carbon. Oxides of nitrogen.

Hydrogen cyanide. Isocyanates.

Toxic fumes. Irritating vapors.

**Hazardous polymerization:**

Contact with moisture, other materials that react with isocyanates, or temperatures above 350° F (177° C), may cause polymerization.

## 11. Toxicological information

**General toxicological information:**

No laboratory animal data available.

**Inhalative toxicity:**

Acute toxicity estimate (ATE) : 1.52

mg/l Exposure time: 4 h

Test atmosphere:

dust/mist Method:

Calculation method

**Other remarks:**

Not available.

**Acute toxicity:**

| Hazardous components CAS-No.                         | Value type | Value                     | Route of application | Exposure time | Species | Method  |
|--|------------|---------------------------|----------------------|---------------|---------|---|
| o-(p-Isocyanatobenzyl)phenyl isocyanate<br>5873-54-1 | LD50       | > 2,000                   | oral                 |               | rat     | other guideline:<br>OECD Guideline 402<br>(Acute Dermal Toxicity) |
|  | LD50       | mg/kg<br>> 9,400<br>mg/kg | dermal               |               | rabbit  |   |

**Skin corrosion/irritation:**

| Hazardous  | Result     | Exposur | Species | Method  |
|--|------------|---------|---------|---|
| o-(p-Isocyanatobenzyl)p<br>henyl isocyanate<br>5873-54-1 | irritating |         | rabbit  | OECD Guideline 404<br>(Acute<br>Dermal Irritation /<br>Corrosion) |

**Respiratory or skin sensitization:**

| Hazardous components CAS-                                | Result          | Test type  | Species    | Method   |
|--|-----------------|--|------------|--|
| o-(p-Isocyanatobenzyl)p<br>henyl isocyanate<br>5873-54-1 | sensitising     | Respirat<br>or<br>y<br>sensitisa<br>tion         | guinea pig | not specified  |
| o-(p-Isocyanatobenzyl)p<br>henyl isocyanate<br>5873-54-1 | not sensitising | Buehler<br>test                                  | guinea pig | OECD Guideline 406<br>(Skin<br>Sensitisation)                            |
| o-(p-Isocyanatobenzyl)p<br>henyl isocyanate<br>5873-54-1 | sensitising     | Mouse<br>local<br>lymphno<br>d e assay<br>(LLNA) | mouse      | OECD Guideline 429<br>(Skin<br>Sensitisation: Local<br>Lymph Node Assay) |

**Germ cell mutagenicity:**

| Hazardous components CAS-                                | Result   | Type of study /<br>Route of                              | Metabolic<br>activation/ | Species | Method  |
|--|----------|--|--------------------------|---------|---|
| o-(p-Isocyanatobenzyl)p<br>henyl isocyanate<br>5873-54-1 | negative | bacterial<br>reverse<br>mutation assay<br>(e.g Amestest) | with<br>andwithout       |         | OECD Guideline 471<br>(Bacterial Reverse<br>Mutation Assay)           |
| o-(p-Isocyanatobenzyl)p<br>henyl isocyanate<br>5873-54-1 | negative | inhalation   |                          | rat     | OECD Guideline 474<br>(Mammalian<br>Erythrocyte<br>Micronucleus Test) |

Repeated dose toxicity:

| Hazardous components                                 | Result                      | Route of application   | Exposure time / Frequency of | Species | Method  |
|--|-----------------------------|------------------------|------------------------------|---------|---|
| o-(p-Isocyanatobenzyl)phenyl isocyanate<br>5873-54-1 | NOAEL=0,2 mg/m <sup>3</sup> | inhalation:<br>aerosol | 2 y 6 h/d, 5 d/w             | rat     | OECD Guideline 453 (Combined Chronic Toxicity/ Carcinogenicity Studies) |

## 12. Ecological information

**General ecological information:**

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

**Ecotoxicity:**

No data available.

**Other adverse effects:**

Not available.

Toxicity:

| Hazardous components<br>CAS-No.                      | Value type | Value        | Acute Toxicity Study | Exposure time | Species     | Method   |
|--|------------|--------------|----------------------|---------------|-------------|--|
| o-(p-Isocyanatobenzyl)phenyl isocyanate<br>5873-54-1 | LC50       | > 1,000 mg/l | Fish                 | 96 h          | Danio rerio | OECD Guideline 203 (Fish, Acute Toxicity Test) |

**Persistence and degradability:**

Not available.

**Bioaccumulative potential / Mobility in soil:**

| Hazardous components<br>CAS-No.                      | LogPow | Bioconcentration factor (BCF) | Exposure time | Species | Temperature | Method        |
|--|--------|-------------------------------|---------------|---------|-------------|---------------|
| o-(p-Isocyanatobenzyl)phenyl isocyanate<br>5873-54-1 | 5.22   |                               |               |         |             | not specified |



## 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 TDG:**

Not dangerous goods

**Marine transport IMDG:**

Not dangerous goods

**Air transport IATA:**

Not dangerous goods

**Notice For Transportation:**

Transport according to local and national regulations. Ensure containers will not leak, collapse, or being damaged when transported. DO NOT transport with incompatible materials. Transportation vehicle should be equipped with right fire-fighting equipment in case of emergency. Avoid solarization, drenched and high temperature when transported.

## 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.