Safety Data Sheet

according to GB/T 16483-2008

Revision: 02/18/2024

1. Product and company identification

Product name： Tacusil PUA505 Part A

Compamy name： Kitpackers Trading (Huizhou) Co., Ltd

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E-mail： info@tacusil.com.hk

Emergency telephone number： International Chemtrec: 01-703-527-3887 (24 hours)

Recommended use： Adhesive

2. Hazards identification

Emergency Overview:

May cause an allergic skin reaction. Very toxic to aquatic life.

GHS classification of substance or mixture, and national or regional information

Hazard Class	Hazard Category
Skin sensitizer	Category 1
Acute hazards to the aquatic environment	Category 1
Chronic hazards to the aquatic environment	Category 1

Label elements

Hazard pictogram:：

Signal word： Warning

Hazard statement

H317 May cause an allergic skin reaction.

H400 Very toxic to aquatic life

H410 Very toxic to aquatic life with long lasting effects

Precautionary statements：

[Prevention]：

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

P261Avoid breathe dust/fume/gas/mist/vapors/spray.

P272 Contaminated work clothing should not be allowed out of workplace

P273Avoid release to the environment.

[Response]：

P302+P352 IF ON SKIN:Wash with plenty of water.

P321 Specific treatment (See ..on this label).

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

P362+P364Take off contaminated clothing and wash it before reuse

P391 Collect spillage

[Disposal]：

P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

3. Composition / information on ingredients

General description: mixture

component	Concentration (% w/w)	CAS No.
ε -Caprolactone, oligomeric reaction products with propylidynetrimethanol	40-60	37625-56-2
Anhydride polyester polyol	40-60	Trade secret
Triethyl orthoformate	1-5	122-51-0
Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	1-5	41556-26-7

4. First aid measures

Description of first aid measures

General information

Get medical attention if any discomfort continues.

Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing. If respiratory problems, artificial respiration/oxygen. Call a POISON CENTER or doctor

Ingestion

IF SWALLOWED: DO NOT induce vomiting. Call a POISON CENTER or doctor Never give anything by mouth to an unconscious person.

Skin contact

IF ON SKIN: Take off contaminated clothing. Wash with plenty of water several minites. If skin irritation occurs: Get medical advice/attention.

Eye contact

IF IN EYES: Hold eyelids apart. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

5. Fire-fighting measures

Extinguishing media：

Extinguish with carbon dioxide or dry powder, foam.

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：

Not detemined.

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 tected personnel. Fight advanced or massive fires from safe distance or protected location. Unpro 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. Extingush at a up wind place.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:
For personal protection, see section 8. Avoid inhalation of vapours and aerosol spray. Avoid contact with skin and eyes. Follow precautions for safe handling described in this safety data sheet.

Environmental precautions:
The product belongs to water pollutant. Do not discharge into drains, water courses or onto the ground.

Methods and material for containment and cleaning up:
Well ventilated and well protected.
【1】Small Spillages: Collect the spillages into a closed container. Absorb with inert , damp, non-combustiblematerial, then transit to a satety place.
【2】Large Spillages: Stop the flow of material if this is without risk. Dike the spilled material. Cover with plastic sheet to prevent spreading. Pump or shovel to storage or salvage vessels. Prevent entry into waterways, sewer, basements or confined areas.
【3】Other Precautions: Add inhibitor to prevent polymerization.

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 instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing mist/vapors. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.
Notice for storage:
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.

8. Exposure controls / personal protection

Engineering control:
Ensure good ventilation of the work station, ventilate curing ovens to prevent emissions in the workplace. Avoid release to the environment.
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

Appearance	Clear Liquid
Physical state:：	Liquid
pH：	No data available
Initial boiling point and boiling range （℃）：	No data available
Flash point（℃）：	> 93 ℃
Upper explosion limit:	No data available
Lower explosive limit:	No data available
Vapor pressure（kPa）：	No data available
Relative density：	1.13
Solubility in water：	Negligible
Odor：	No data available
Melting point（℃）：	No data available
Auto-ignition temperature:（℃）：	No data available
Decomposition temperature（℃）：	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:	1500cps

10. Stability and reactivity

Reactivity:

The product is non-reactive under normal conditions of use, storage and transport.

Conditions to avoid:

Incompatible materials**.**

High temperatures.

Incompatible products:

Oxidizing agents(eg peroxides, nitrates). Reducing agents. Acid.

Decomposition products:

Carbon oxides (CO, CO2).

11. Toxicological information

Information on toxicological effects

Toxicological information

Oral		
37625-56-2 2-oxepanone, polymer with 2-ethyl-2-(hydroxymethyl)-1,3propanediol		
Oral	LD50	>2000 mg/kg (rat) (EU Method B.1)
31831-53-5 2-oxepanone, polymer with 1,4 butanediol		
Oral	LD50	>2000 mg/kg (rat) (Standard Acute) Source: REACH Dossier Standar Acute Method Testing
122-51-0 Triethyl orthoformate		
Oral	LD50	7060 mg/kg (rat) Reference: ECHA (2012).

Dermal		
37625-56-2 2-oxepanone, polymer with 2-ethyl-2-(hydroxymethyl)-1,3propanediol		
Dermal	LD50	mg/kg (rat) (OECD 402)
31831-53-5 2-oxepanone, polymer with 1,4 butanediol		
Dermal	LD50	not irritating mg/kg (rabbit)
122-51-0 Triethyl orthoformate		
Dermal	LD50	18000 mg/kg (rabbit)Reference: ECHA (2012).

Skin corrosion/irritation:

No relevant information for respiratory sensitization; classification is not possible..

Serious eye damage/irritation:

No relevant information for respiratory sensitization; classification is not possible.

Respiratory or skin sensitization:

Respiratory or Skin Sensitization		
37625-56-2 2-oxepanone, polymer with 2-ethyl-2-(hydroxymethyl)-1,3propanediol		
Sensitization	Skin	(Not applicable) No skin sensitization. OECD 429
31831-53-5 2-oxepanone, polymer with 1,4 butanediol		
Sensitization	Skin	not sensitizing (mouse) (in vivo LLNA OECD Guideline 429)
122-51-0 Triethyl orthoformate		
Sensitization	Skin Respiratory	not sensitizing (guinea pig) (OECD TG 406; 20 treated animals;100% dose level) No positive reaction was observed in any treated animals; the substance was therefore not sensitizing to pig skin.Reference: ECHA (2012). (No data Reference: ECHA (2012). (No data available)

No relevant information for respiratory sensitization; classification is not possible.

Carcinogenicity:

No further relevant information; classification is not possible..

Specific target organ toxicity (single exposure):

No further relevant information; classification is not possible..

Specific target organ toxicity (repeated exposure):

No further relevant information; classification is not possible.

Germ cell mutagenicity:

No information available

Repeated dose toxicity:

No information available

12. Ecological information

General ecological information:

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

Ecotoxicity

Ecology - general : Very toxic to aquatic life with long lasting effects.

Aquatic Environmental Toxicity	
37625-56-2 2-oxepanone, polymer with 2-ethyl-2-(hydroxymethyl)-1,3propanediol	
Crustacean Toxicity	204* mg/l (Daphnia magna (water flea)) (OECD 202) *Read across from supporting substance (structural analogue) EC50/48h
Fish Toxicity	150 mg/l (Danio rerio) (OECD 203) LC50/96h
122-51-0 Triethyl orthoformate	
Algae Toxicity	68 mg/l (Test species: n/a) (EC50 (96 hrs); QSAR calculation)
Crustacean Toxicity Fish Toxicity	617 mg/l (Daphnia magna (water flea)) (EC50 (48 hrs); EU Method C2) 592 mg/l (Leuciscus idus (Ide or Orfe)) (LC50 (48 hrs); DIN 38412 Tei 15)
	NOEC (30 days) = 35.2 mg/l; when considering the weight of all evidence, the substance was not classified as an environmental hazard. Reference: ECHA (2012).
Degradability and Stability	
122-51-0 Triethyl orthoformate	
Biodegradation	readily (Test species: n/a)
Persistence	Biodegradation (EPA OTS 796.3260; 28 days; CO_2 evolution) = 100%; the substance is readily biodegradable. (Test species: n/a) The substance is not persistent. Reference: Canada DSL (2007). (No data available)
Photodegradation	(Test species: n/a)
Stability in water	Half-life (pH=7; at 25 °C) = 5 hours Reference: ECHA (2012).
Bioaccumulation and Distribution	
37625-56-2 2-oxepanone, polymer with 2-ethyl-2-(hydroxymethyl)-1,3propanediol	
LogPow	2.4 (Not applicable) (OECD 117)
122-51-0 Triethyl orthoformate	
BCF	(No data available) The substance is not bioaccumulative. Reference: Canada DSL (2007).
Koc LogPow	(No data available) 1.2 (Test species: n/a) (pH=7; at 20 °C) Reference: ECHA (2012).

Partition coefficient:

Not determined.

Mobility in soil

No reports available

Results of PBT and vPvB assessment：

Not applicable.

Other adverse effects Classification procedure (Ozone):

No data available

13. Disposal considerations

Product disposal:
Dispose of contents/container in accordance with licensed collector's sorting instructions.
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

Hazard Class: 9
Packing group: III
UN no.: 3082
Label: 9.
Proper shipping name： ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S
Seawater pollutant: YES

`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"
- "Law of the People's Republic of China on environmental protection"
- "Regulation on the Safety Management of Hazardous Chemicals"
- "Regulations on License to Work Safety"

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.