

SAFETY DATA SHEET FOR CHEMICAL PRODUCTS

SECTION 1 Chemical product and company identification

Chemical name (Chinese Name) :
Chemical name (English name) : Tacusil UVA0219
Name of company : Kitpackers Trading (Huizhou) Co., Ltd.
Address : China, Huizhou City, Guangdong, P.R.C, Room 9,11 Floor, Chuangxin Building Block 1#, No.1, Technology Road, Technology Chuangxin Park
Zip code : 516211
Tel. : (86 752) 5533798
Emergency number : International Chemtrec: 01-703-527-3887 (24 hours)
Recommended use : One part UV curable epoxy
Restrictions on use : Product for industrial use only

SECTION 2 Hazards identification


Emergency overview

----- TO BE COMPLETED -----

GHS classification

Physical hazards : Flammable liquids Not classified
Health hazards : Skin corrosion/irritation, Category 2
 : Serious eye damage/eye irritation, Category 2
 : Skin sensitisation, Category 1
Environmental hazards : Hazardous to the aquatic environment — Acute Hazard, Category 1
 : Hazardous to the aquatic environment — Chronic Hazard, Category 2

Label elements

Hazard pictograms (GHS CN) : 
Signal word (GHS CN) : Warning.
Hazard statements (GHS CN) : H315 - Causes skin irritation.
 : H317 - May cause an allergic skin reaction.
 : H319 - Causes serious eye irritation.
 : H400 - Very toxic to aquatic life.
 : H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements (GHS CN)

Prevention precautionary statements	: P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P264 - Wash hands, forearms and face thoroughly after handling. P272 - Contaminated work clothing should not be allowed out of the workplace. P273 - Avoid release to the environment. P280 - Wear protective gloves/protective clothing/eye protection/face protection.
Response Precautionary Statements	: P302+P352 - IF ON SKIN: Wash with plenty of water. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P321 - Specific treatment (see supplemental first aid instruction on this label). P332+P313 - If skin irritation occurs: 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. P363 - Wash contaminated clothing before reuse. P391 - Collect spillage.
Disposal precautionary statements	: P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Additional information

Health hazard	: Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Eye irritation Irritation May cause an allergic skin reaction.
Environmental hazards	: Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

SECTION 3 Composition/information on ingredients

Name	CAS-No.	Concentration (%)
Butylacrylate-Methacrylic acid-Methmethacrylate Copolymer	25035-69-2	40 – 50
Aliphatic urethane acrylate-Trade secret CAS	68987-79-1	30 – 50

Isobornyl Acrylate	5888-33-5	4 – 8
2-hydroxy-2-methylpropiophenone	7473-98-5	1 – 4
Siloxanes and Silicones, di-Me, reaction products with silica (Dust)	67762-90-7	5-10
phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	162881-26-7	0.5 – 1

SECTION 4 First aid measures

Emergency

- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
- First-aid measures after skin contact : Wash skin with plenty of water.
 Take off contaminated clothing.
 If skin irritation or rash occurs: Get medical advice/attention.
- First-aid measures after eye contact : 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.
- First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell

Most Important Symptoms/Effects

- Eye irritation
 Irritation
 May cause an allergic skin reaction.

Personal Protection in First Aid and Measures

No additional information available

Notes for the doctor

- Other medical advice or treatment : Treat symptomatically

SECTION 5 Fire fighting measures

Extinguishing media

- Suitable extinguishing media : Water spray
 Dry powder
 Foam
 Carbon dioxide
- Unsuitable extinguishing media : No additional information available

Special hazard

Hazardous decomposition products in case of fire : Toxic fumes may be released

Advice for firefighters and protective measures

Firefighting instructions : No additional information available
Protection during firefighting : Do not attempt to take action without suitable protective equipment
Self-contained breathing apparatus
Complete protective clothing

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

General measures : No additional information available
Personal Precautions, Protective Equipment and Emergency Procedures : No additional information available

For non-emergency personnel

Emergency procedures : Ventilate spillage area
Avoid contact with skin and eyes
Avoid breathing dust/fume/gas/mist/vapours/spray.

For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment
For further information refer to section 8: "Exposure controls/personal protection"

Environmental precautions : Avoid release to the environment

Methods and Equipment for Containment and Cleaning up

Methods for cleaning : No additional information available

: No additional information available

For containment : Collect spillage.

Prevention Measures for Secondary Accidents

Prevention Measures for Secondary Accidents : No additional information available

Other information : Dispose of materials or solid residues at an authorized site

SECTION 7 Handling and storage

Handling

- Precautions for safe handling : Ensure good ventilation of the work station, ventilate curing ovens to prevent emissions in the workplace.
 Avoid contact with skin and eyes
 Wear personal protective equipment
 Avoid breathing dust/fume/gas/mist/vapours/spray.
- Hygiene measures : Wash contaminated clothing before reuse.
 Contaminated work clothing should not be allowed out of the workplace.
 Do not eat, drink or smoke when using this product.
 Always wash hands after handling the product
- Local and general ventilation : No additional information available

Storage

- Storage conditions : Store in a well-ventilated place.
 Keep cool.
- Material used in packaging/containers : No additional information available

SECTION 8 Exposure controls / Personal protection equipment

Occupational Exposure Limits

Siloxanes and Silicones, di-Me, reaction products with silica (Dust)	
ACGIH TWA (mg/m ³)	3 mg/m ³ (Respirable fraction)

Biological limit values

No additional information available

Monitoring methods

No additional information available

- Appropriate engineering controls** : Ensure good ventilation of the work station, ventilate curing ovens to prevent emissions in the workplace.

Personal protective equipment

- Environmental exposure controls : Avoid release to the environment.
- Hand protection : Protective gloves
- Eye protection : Safety glasses with side shields
- Skin and body protection : Wear suitable protective clothing
- Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s)



SECTION 9 Physical and chemical properties

Physical state	: Paste Liquid
Appearance	: No data available
Colour	: clear
Odour	: characteristic
pH	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 94 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Density	: 1.07 g/cm ³
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Lower explosive limit (LEL)	: No data available
Upper explosive limit (UEL)	: No data available
Radioactive	: No

SECTION 10 Stability and reactivity

Reactivity	: The product is non-reactive under normal conditions of use, storage and transport
Chemical stability	: Stable under normal conditions
Possibility of hazardous reactions	: No dangerous reactions known under normal conditions of use
Conditions to avoid	: None under recommended storage and handling conditions (see section 7)
Incompatible materials	: No additional information available
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced
Other properties	: No additional information available

SECTION 11 Toxicological information

Acute toxicity	
Acute toxicity (oral)	: No data available
Acute toxicity (dermal)	: No data available

Acute toxicity (inhalation) : No data available

Siloxanes and Silicones, di-Me, reaction products with silica (Dust)	
LD50 oral rat	> 5000 mg/kg (Rat, Oral)
LD50 dermal rat	> 2000 mg/kg (Rat, Dermal)
ATE CN (dermal)	2500 mg/kg bodyweight

Isobornyl Acrylate	
LD50 oral rat	4350 mg/kg bodyweight (Rat, Male, Experimental value, Oral, 14 day(s))
LD50 dermal rabbit	> 3000 mg/kg bodyweight (Rabbit, Male, Experimental value, Skin, 14 day(s))
ATE CN (oral)	4350 mg/kg bodyweight
ATE CN (dermal)	2500 mg/kg bodyweight

2-hydroxy-2-methylpropiophenone	
LD50 oral rat	1694
LD50 dermal rat	6929
ATE CN (oral)	1694 mg/kg bodyweight
ATE CN (dermal)	6929 mg/kg bodyweight

Skin corrosion/irritation

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitisation

Respiratory or skin sensitisation : May cause an allergic skin reaction.

Germ cell mutagenicity

Germ cell mutagenicity : No data available

Carcinogenicity

Carcinogenicity : No data available

Reproductive toxicity

Reproductive toxicity : No data available

STOT-single exposure

STOT-single exposure : No data available

STOT-repeated exposure

STOT-repeated exposure : No data available

Aspiration hazard

Aspiration hazard : No data available

UV7602	
Density	1.07 g/cm ³

SECTION 12 Ecological information

Ecotoxicity

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

Hazardous to the aquatic environment, short-term (acute) : Very toxic to aquatic life.

Hazardous to the aquatic environment, long-term (chronic) : Toxic to aquatic life with long lasting effects.

Isobornyl Acrylate	
LC50 fish 1	0.704 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Semi-static system, Fresh water, Experimental value, GLP)
ErC50 (algae)	1.98 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)
BCF fish 1	37 (OECD 305: Bioconcentration: Flow-Through Fish Test, 56 h, Danio rerio, Flow-through system, Fresh water, Read-across, GLP)

Persistence and degradability

Siloxanes and Silicones, di-Me, reaction products with silica (Dust)	
Persistence and degradability	Biodegradability in soil: no data available

Isobornyl Acrylate	
Persistence and degradability	Not readily biodegradable in water

2-hydroxy-2-methylpropiophenone	
Persistence and degradability	Not readily biodegradable in water

Bioaccumulative potential

Siloxanes and Silicones, di-Me, reaction products with silica (Dust)	
Bioaccumulative potential	No bioaccumulation data available

Isobornyl Acrylate	
Bioaccumulative potential	Potential for bioaccumulation ($4 \geq \text{Log Kow} \leq 5$)
BCF fish 1	See section 12.1 on ecotoxicology
Partition coefficient n-octanol/water (Log Pow)	4.52 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method)

2-hydroxy-2-methylpropiophenone	
Bioaccumulative potential	Low potential for bioaccumulation ($\text{Log Kow} < 4$)
Partition coefficient n-octanol/water (Log Pow)	1.66

Mobility in soil

Siloxanes and Silicones, di-Me, reaction products with silica (Dust)	
Ecology - soil	No bioaccumulation data available

Isobornyl Acrylate	
Ecology - soil	Potential for bioaccumulation ($4 \geq \text{Log Kow} \leq 5$)
Partition coefficient n-octanol/water (Log Pow)	4.52 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method)

2-hydroxy-2-methylpropiophenone	
Ecology - soil	Low potential for bioaccumulation ($\text{Log Kow} < 4$)
Partition coefficient n-octanol/water (Log Pow)	1.66

Other adverse effects

Classification procedure (Ozone) : No data available






SECTION 13 Disposal considerations

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Contaminated container and packaging : No additional information available

Additional information : No additional information available

SECTION 14 Transport information

Overland transport	Transport by sea	Air transport	Inland waterway transport	Rail transport
UN number				
3082	3082	3082	3082	3082
UN proper shipping name				
ENVIRONMEN TALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Acrylic ester)	ENVIRONMEN TALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Acrylic ester)	Environmentally hazardous substance, liquid, n.o.s. (Acrylic ester)	ENVIRONMEN TALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Acrylic ester)	ENVIRONMEN TALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Acrylic ester)
Transport document description				
UN 3082 ENVIRONMEN TALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Acrylic ester), 9, III	UN 3082 ENVIRONMEN TALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Acrylic ester), 9, III	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Acrylic ester), 9, III	UN 3082 ENVIRONMEN TALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Acrylic ester), 9, III	UN 3082 ENVIRONMEN TALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Acrylic ester), 9, III
Transport hazard class(es)				
9	9	9	9	9
				
Packing group				
III.	III.	III.	III.	III.
Environmental hazards				
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes

Special transport precautions

Overland transport

Special provisions (UN RTDG)	: 274, 331, 335, 375.
Limited quantities (UN RTDG)	: 5L.
Excepted quantities (UN RTDG)	: E1.
Packing instruction (UN RTDG)	: P001, IBC03, LP01.
Special packing provisions (UN RTDG)	: PP1.
Portable tank and bulk container special instructions (UN RTDG)	: T4.
Portable tank and bulk container special provisions (UN RTDG)	: TP1, TP29.
Transport by sea	
Special provisions (IMDG)	: 274, 335, 969.
Limited quantities (IMDG)	: 5 L.
Excepted quantities (IMDG)	: E1.
Packing instructions (IMDG)	: LP01, P001.
Special packing provisions (IMDG)	: PP1.
IBC packing instructions (IMDG)	: IBC03.
Tank instructions (IMDG)	: T4.
Tank special provisions (IMDG)	: TP1, TP29.
Stowage category (IMDG)	: A.
Air transport	
PCA Excepted quantities (IATA)	: E1.
PCA Limited quantities (IATA)	: Y964.
PCA limited quantity max net quantity (IATA)	: 30kgG.
PCA packing instructions (IATA)	: 964.
PCA max net quantity (IATA)	: 450L.
CAO packing instructions (IATA)	: 964.
CAO max net quantity (IATA)	: 450L.
Special provisions (IATA)	: A97, A158, A197.
ERG code (IATA)	: 9L.
Inland waterway transport	
Classification code (ADN)	: M6.
Special provisions (ADN)	: 274, 335, 375, 601.
Limited quantities (ADN)	: 5 L.
Excepted quantities (ADN)	: E1.
Equipment required (ADN)	: PP.
Number of blue cones/lights (ADN)	: 0
Rail transport	
Special provisions (RID)	: 274, 335, 375, 601.
Limited quantities (RID)	: 5L.
Excepted quantities (RID)	: E1.
Packing instructions (RID)	: P001, IBC03, LP01, R001.
Special packing provisions (RID)	: PP1.
Mixed packing provisions (RID)	: MP19.
Portable tank and bulk container instructions (RID)	: T4.
Portable tank and bulk container special provisions (RID)	: TP1, TP29.
Tank codes for RID tanks (RID)	: LGBV.

Transport category (RID) : 3.
Special provisions for carriage – : W12.
Packages (RID)
Special provisions for carriage - : CW13, CW31.
Loading, unloading and handling
(RID)
Colis express (express parcels) : CE8.
(RID)
Hazard identification number : 90.
(RID)

SECTION 15 Regulatory information

U.S. FEDERAL REGULATIONS

TSCA

The chemical components of this product are included in the TSCA Chemical Substance Inventory, as required.

SARA TITLE III

Section 313 - Toxic Chemicals

Pursuant to Section 313, this product does not contain any chemicals in a concentration equal to or greater than the de minimis level.

Section 311/312 - Hazard Categories

Fire Hazard: No
Reactivity Hazard: Yes
Sudden Release of Pressure Hazard: No
Immediate (Acute) Health Hazard: Yes
Delayed (Chronic) Health Hazard: Yes

STATE REGULATIONS / RIGHT TO KNOW

California Proposition 65: This product is not known to contain any chemicals which are recognized by the State of California to cause cancer, birth defects, or other reproductive harm

SECTION 16 Other information

DISCLAIMER OF LIABILITY The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable