

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

Chinese name of chemical	
English name of chemical	Tacusil UVA0207LV
Manufacturer/Supplier	Kitpackers Trading (Huizhou) Co.,
Address	Room 9,11 Floor, Chuangxin Building Block 1, No.1, Technology Road, Technology Chuangxin Park, West of Dayabay, Huizhou City,Guangdong, P.R. China
Emergency telephone number	North America - Chemtrec: 1-800-424-9300 (24 hours) International - Chemtrec: 01-703-527-3887 (24 hours) China: 0755-27295358
Recommended use and Limitations on use	
Recommended use	Acrylic Resin
Limitations on use	No other uses are advised.

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 sensitizer	Category 1
Acute toxicity	Category 4
Acute hazards to the aquatic environment	Category 1
Chronic hazards to the aquatic environment	Category 1

Label elements

Pictograms



Signal word

Warning

Hazard statement

H302 Harmful if swallowed.
H317 May cause an allergic skin reaction.
H400 Very toxic to aquatic life.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statement Prevention

P264 Wash thoroughly after handling.
P270 Do Not eat drink or smoke when using this product.
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.
P284 Wear respiratory protection.

Response

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P301 + P312 IF swallowed: call a poison center/doctor, if you feel unwell.
P308 + P313 IF exposed or concerned: Get medical advice/attention. P333 +
P313 If skin irritation or rash occurs: Get medical advice/attention.
P330 Rinse mouth.
P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor. P362
+ P364 Take off contaminated clothing and wash it before reuse.
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 in accordance with local/regional/national/international regulations.

Physical and chemical hazards

The product is stable and non-reactive under normal conditions of use, storage and transport. No unusual fire or explosion hazards noted.

Health hazards

May cause an allergic skin reaction. Expected to be a low ingestion hazard. Causes serious eye irritation.
Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

3. Composition / information on ingredients

Substance/mixture	Mixture	Concentration (%)	CAS Number
Chemical name			
Acrylate Oligomer		<90	Proprietary

Chemical name

IBOA	>10	5888-33-5
Photocuring Agent	< 10	7473-98-5
PETMP	< 10	7575-23-7
Fumed Silica Proprietary	< 10	Proprietary

4. First aid measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If experiencing respiratory symptoms: Call a poison center or doctor/physician.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms and health effects	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Difficulty in breathing. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.
Personal protection for first-aid responders	IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.
Notes to physician	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

5. Fire fighting measures

Extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO ₂).
Extinguishing media to avoid	Water. Do not use water jet as an extinguisher, as this will spread the fire. During fire, gases hazardous to health may be formed.
Specific hazards	
Special fire fighting procedures	Move containers from fire area if you can do so without risk.
Protection of fire-fighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire. No unusual fire or explosion hazards noted.
General fire hazards Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist/vapors. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
For emergency responders	Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.
Environmental precautions	Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

Clean-up methods and materials and containment measures

This product is miscible in water. Prevent entry into waterways, sewer, basements or confined areas.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Not available.

Prevention of secondary hazards

7. Handling and storage

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.

Storage

Store locked up. Store in tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls / personal protection

Exposure limits

Occupational Exposure Limits for Hazardous Agents in the Workplace, Chemical Hazardous Agents (ACGIH)

Components	Type	Value
IBOA (CAS 5888-33-5)	TLV-TWA	0.05 ppm

Biological limit values Monitoring methods Engineering measures

No biological exposure limits noted for the ingredient(s). Follow standard monitoring procedures.

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. General ventilation normally adequate. Provide eyewash station and safety shower.

Personal protective equipment

Respiratory protection

Chemical respirator with organic vapor cartridge and full facepiece. Wear

Hand protection

appropriate chemical resistant gloves.

Eye protection

Chemical respirator with organic vapor cartridge and full facepiece.

Skin and body protection

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Hygiene measures

Observe any medical surveillance requirements. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

9. Physical and chemical properties

Appearance

Physical state

Liquid.

Form

Not available.

Color

Translucent.

Odor

Mild Organic.

pH

Not available.

Melting point/freezing point

Not available.

Boiling point, initial boiling point, and boiling range

>430 °F

Flash point	Not available.
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	<0.2 at 77 °F
Vapor density	Not available.
Relative density	Not available.
Density	Not available.
Solubility(ies)	
Solubility (water)	Negligible.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Flammability (solid, gas)	Not applicable.
Other data	
Explosive properties	Not explosive.
Kinematic viscosity	Not available.
Kinematic viscosity temp	Not available.
Oxidizing properties	Not oxidizing.

10. Stability and reactivity

Reactivity Stability	The product is stable and non-reactive under normal conditions of use, storage and transport. Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	
Incompatible materials	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Contact with incompatible materials.
Hazardous decomposition products	Strong oxidizing agents. No hazardous decomposition products are known.

11. Toxicological information

Acute toxicity Not known.

Components	Species	Test Results
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IBOA (CAS 5888-33-5)

Acute

Dermal

LC50	Rabbit	> 30000mg/kg bw
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Oral

LD50	Rat	4350 mg/kg
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Photocuring Agent (CAS 7473-98-5)

Acute

Dermal

LC50	Rabbit	6929 mg/kg bw
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Oral

LD50	Rat	1694 mg/kg bw
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Acute Dermal

Oral

LD50

Rat

> 1 000 - < 2 000 mg/kg bw

Skin corrosion/irritation

Not available.

Serious eye damage/eye irritation

Not available.

Respiratory or skin sensitization

Respiratory sensitization

Not available.

Skin sensitizer Germ

May cause an allergic skin reaction.

cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity

Not available.

Toxic to reproduction

Suspected of damaging fertility or the unborn child. May

Specific target organ toxicity following single exposure

cause respiratory irritation.

Specific target organ toxicity following repeated exposure

Not classified.

Aspiration hazard

Not an aspiration hazard.

Chronic effects

Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicological data

Aquatic

Components

Species

Test Results

IBOA (CAS 5888-33-5)

LC50

Fish

0.704 mg/L, 96 h

NOEC(reproduction)

Daphnia magna

0.092 mg/L, 21d

EC50(Growth rate)

Algae

1.98 mg/L, 72h

NOEC(Growth rate)

Algae

0.405 mg/L, 72h

Photocuring Agent (CAS 7473-98-5)

LC50

Fish

160 mg/L, 48 h

ErC50

Algae

1.95 mg/L, 72 h

PETMP (CAS 7575-23-7)

LC50

Fish

0.034 mg/L 96 h

EC50

Daphnia magna

> 0.35 mg/L, 48 h

EC50

Algae

> 0.12 mg/L, 72 h

Ecotoxicity

Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Persistence and degradability

No data is available on the degradability of any ingredients in the mixture.

Bioaccumulation

No data is available.

Mobility in soil

This product is miscible in water.

Other hazardous effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

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:

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”
“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

Disclaimer

The information offered in this data sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication, however, no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. This material is intended for industrial use only. No warranty, expressed or implied is made.