Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) No 453/2010

FEYCO TREFFERT
Wood Coatings Partner

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

1.1. Product identifiers

Article no. (manufacturer / supplier):	6613600000
Identification of the substance or preparation	UV ANTI SCRATCH SEALER Cust: General

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/downstream user/distributor):

Shanghai Treffert Special Coatings Co., LTD
No. 1299 Beihe Road
Jiading North Industrial Zone
201807 Shanghai
P.R. China

Telephone: +86 21 5165 1818
Telefax: +86 21 5165 1388
E-mail: treffertchina@feycotreffert.com.cn
Website: www.feycotreffert.com

Dept. responsible for information:

Hazardous substance management/Laboratory:	+86 21 5165 1818
E-mail (competent person):	richard.ji@feycotreffert.com.cn

1.4. Emergency telephone number

Emergency telephone:	+86 21 5165 1818

Only available during office hours.

2. Hazards identification

2.1. Classification of the substance or mixture

Classification according to EC regulation 1272/2008 (CLP):

Classification according to Directive 67/548/EEC or 1999/45/EC

The preparation is not classified as dangerous according to 1999/45/EC.

2.2. Label elements

The product is classified and labelled according to EC directives or corresponding national laws.

Labelling (CLP)

Hazard pictograms

Warning

Hazard statements:

H227	Combustible liquid.
H315	Causes skin irritation.
H318	Causes serious eye damage..
H317	May cause an allergic skin reaction.
H411	Toxic to aquatic life with long lasting effects.

Safety precautions:

P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P260	Do not breathe vapours.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
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.
P302 + P352	IF ON SKIN: Wash with plenty of soap and 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.
P310	Immediately call a POISON CENTER or doctor/ physician.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P362	Take off contaminated clothing and wash before reuse.
P370 + P378	In case of fire: Use dry sand to extinguish.
P391	Collect spillage.
P403 + P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container to industrial incineration plant.

contains:

Dipropylenglycoldiacrylate (DPGDA)
(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate (TPGDA)

Supplemental Hazard information (EU):

NA

Labelling (67/548/EEC or 1999/45/EC)

Xi Irritant

N Dangerous for the environment

Hazard statements:

37/38	Irritating to respiratory system and skin.
41	Risk of serious damage to eyes.
43	May cause sensitization by skin contact.
51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety precautions:

24	Avoid contact with skin.
26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
37/39	Wear suitable gloves and eye/face protection.
38	In case of insufficient ventilation, wear suitable respiratory equipment.
61	Avoid release to the environment. Refer to special instructions / safety data sheet.
23	Do not breathe vapour.

contains:

(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate (TPGDA)

Special provisions concerning the labelling of certain mixtures

NA

2.3. **Other hazards**

3. Composition/ Information on ingredients

3.2. **Mixtures**

chemical characterization (preparation)

Description:

Hazardous ingredients:

Classification according to EC regulation 1272/2008 (CLP):

EC No: CAS No.: INDEX no.:	REACH No: Chemical name: classification:	% by weight Remark:
256-032-2 42978-66-5 607-249-00-X	(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate (TPGDA)	12.5 - 15
260-754-3 57472-68-1	Dipropylenglycoldiacrylate (DPGDA)	3 - 5
231-272-0 7473-98-5	2-Hydroxy-2-methyl-1-phenyl-propan-1-one	3 - 5
204-337-6 119-61-9	BENZOPHENONE	1 - 2

Classification according to Directive 67/548/EEC or 1999/45/EC

EC No: CAS No.: INDEX no.:	REACH No: Identification of the hazard: classification:	% by weight Remark:
256-032-2 42978-66-5 607-249-00-X	(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate (TPGDA) Xi; R36/37/38 / R43 / N; R51-53	12.5 - 15
260-754-3 57472-68-1	Dipropylenglycoldiacrylate (DPGDA) Xi; R38-41 / R43	3 - 5

231-272-0 7473-98-5	2-Hydroxy-2-methyl-1-phenyl-1-propanone Xn; R22	3 - 5
204-337-6 119-61-9	Benzophenone Xi; R36/37/38 / R52-53	1 - 2

Additional information
Full text of R-phrases: see section 16.
Full text of H-phrases: see section 16.

4. First-aid measures

4.1. **Description of first aid measures**

General information:

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

After inhalation
Move victim to fresh air. Put victim at rest and keep warm. In case of irregular breathing or respiratory arrest provide artificial respiration.

In case of skin contact:
Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners. In case of skin contact:
Conditions to avoid UV-radiation/sunlight.
Causes mild skin irritation.

In case of eye contact:
Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice.

After ingestion:
If swallowed, rinse mouth with water (only if the person is conscious). Consult physician immediately. Keep victim calm. Do not induce vomiting.

4.2. **Most important symptoms and effects, both acute and delayed**
In all cases of doubt, or when symptoms persist, seek medical advice.

4.3. **Indication of any immediate medical attention and special treatment needed**

5. Firefighting measures

5.1. **Extinguishing media**

Suitable extinguishing media:
Alcohol resistant foam, carbon dioxide fire blanket, Powder, spray mist, (water)

Extinguishing media which must not be used for safety reasons:
Strong water jet

5.2. **Special exposure hazards arising from the substance or preparation itself, its combustion products or from resulting gases:**
Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

5.3. **Special protective equipment for firefighters:**
Provide a conveniently located respiratory protective device.

Additional information:
Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways. Treat runoff as hazardous.

6. Accidental release measures

6.1. **Personal precautions, protective equipment and emergency procedures**
Keep away from sources of ignition. Ventilate affected area. Do not breathe vapours. See protective measures under point 7 and 8.

6.2. **Environmental measures**
Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

6.3. **Methods and material for containment and cleaning up**
Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see chapter 13). Clean using cleansing agents. Do not use solvents.

6.4. **Reference to other sections**
Observe protective provisions (see chapter 7 and 8).

7. Handling and storage

Persons with a history of skin sensitisation problems should not be employed in any process in which this product is used.

7.1. **Precautions for safe handling**

Advices on safe handling

Use only in well-ventilated areas. Keep away from heat sources, sparks and open flames. Avoid contact with skin, eyes and clothes. Do not inhale dusts, particulates and spray mist when using this preparation. Avoid respiration of swarf. When using do not eat, drink or smoke. Personal protection equipment: refer to chapter 8. Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

7.2. **Conditions for safe storage, including any incompatibilities**

Requirements for storerooms and containers:
Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

Hints on joint storage
Keep away from strongly acidic and alkaline materials as well as oxidizers.

Further information on storage conditions
Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 5 °C and 35 °C. Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks. Keep only in the original container.

7.3. **Specific end use(s)**
Observe technical data sheet.Observe instructions for use.

8. Exposure controls / Personal protection

8.1. **Control parameters**

EC No:	Description:	type:	Limit valueUnit
CAS No.:			STEL (EC) TWA (EC

8.2. **Exposure controls**
Provide good ventilation. This can be achieved with local or room suction. If this should not be sufficient to keep aerosol and solvent vapour concentration below the exposure limit values, a suitable respiratory protection must be used.

Occupational exposure controls:

Respiratory protection:
If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. Use only respiratory protection equipment with CE-symbol including four digit test number.

Hand protection:
For prolonged or repeated handling the following glove material must be used:
Thickness of the glove material: > 0,4 mm ; Penetration time (maximum wearing period): > 480 min.
Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin. Recommended glove articles: DIN EN 374
Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

Eye protection:
Wear closely fitting protective glasses in case of splashes.

Body protection:
Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.

Protective measures:
After contact clean skin thoroughly with water and soap or use appropriate cleanser.

Environmental exposure controls
Do not allow to enter into surface water or drains. refer to chapter 7. No further action is necessary.

9. Physical and chemical properties

9.1. **Information on basic physical and chemical properties**

Appearance:

Physical state:	liquid
Colour	refer to label
Odour:	characteristic

Safety relevant basis data		Unit	Method	Remark:
Flash point (°C):	>70	°C	DIN 53213	
Ignition temperature (AIT)	560	°C		
lower explosion limit:	NA			
Upper explosion limit:	NA			
Vapour pressure at 25 °C:	n.a.			
Density at 25 °C:	1.21	g/cm³		
Water solubility (g/l):	insoluble			
pH at 25 °C:	-			
Viscosity at 25 °C	70 s 6 mm		DIN 53211	
Solvent separation test (%):	< 3	%		
Solid content (%):	99.90	% by weight		
solvent content:				
Organic solvents::	0.10	% by weight		
Water:	0.00	% by weight		

9.2. **Other information:**

10. Stability and reactivity

10.1. **Reactivity**

10.2. **Chemical stability**
Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to chapter 7.

10.3. **Possibility of hazardous reactions**
Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

10.4. **Conditions to avoid**
This preparation contains material instable under the following conditions: Heating, strong ultraviolet radiation. An exotherm polymerization of the product may thereby be caused. Avoid unintended contact with it. Hazardous decomposition byproducts may form with exposure to high temperatures.

10.5. **Incompatible materials**

10.6. **Hazardous decomposition products**
Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.

11. Toxicological information

No data on preparation itself available.

11.1. **Information on toxicological effects**

Acute toxicity

Toxicological data are not available.

Irritant and corrosive effects

Toxicological data are not available.

Sensitisation

Toxicological data are not available.

Specific target organ toxicity

Toxicological data are not available.

Aspiration hazard:

Toxicological data are not available.

Practical experience

Other observations:
The fractions of acrylic resin in the preparation have an irritant effect. Prolonged or repeated contact with the preparation can lead to irritations of mucous membranes and of skin such as redness, formation of blebs, dermatitis, etc.. Cases of allergic skin reactions have been observed. Liquid splashes can lead to irritations of the eyes. Inhaling of drolets in the air or aerosols may lead to irritations of the respiratory tract . Ingestion may cause nausea, weakness and affect the central nervous system.

Overall Assessment on CMR properties:

The components in this formulation do not meet the criteria for classification as CMR category 1 or 2.

There is no information available on the preparation itself . The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified according to the toxicological dangers.See chapters 2 and 15 for details.

12. Ecological information

Overall evaluation:
There is no information available on the preparation itself .
Do not allow to enter into surface water or drains.

12.1. **Toxicity**
No information available.

Long-term Ecotoxicity

Toxicological data are not available.

12.2. **Persistence and degradability**
Toxicological data are not available.

12.3. **Bioaccumulative potential**
Toxicological data are not available.

Bioconcentration factor (BCF):

Toxicological data are not available.

12.4. **Mobility in soil**
Toxicological data are not available.

12.5. **Results of PBT and vPvB assessment**

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

12.6. **Other adverse effects**

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is classified for eco-toxicological properties accordingly. See Sections 2 and 15 for details.

13. Disposal considerations

13.1. **Waste treatment methods**

Appropriate disposal / Product
Recommendation:

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

Control report for waste code/ waste marking according to EAKV:

080111	waste paint and varnish containing organic solvents or other dangerous substances

Contaminated packaging:
Recommendation:
Cleaned containers may be recycled. Vessels not properly emptied are special waste.

14. Transport information

No dangerous good in sense of these transport regulations.

14.1. **UN-No.:**

NA

14.2. **UN proper shipping name**

14.3. **Transport hazard class(es)**

NA

14.4. **Packing Group:**

NA

14.5. **Environmental hazards:**

Land transport (ADR/RID) NA

Marine pollutant: NA

14.6. **Environmental hazards**

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.
Advices on safe handling: see parts 6 - 8

Further remarks:

Land transport (ADR/RID)

Tunnel restriction code:

Sea transport (IMDG)

EmS-No.: NA

14.7. **Special precautions for user**

not applicable

15. Regulatory information

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

EU legislation

Information according to 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline).

VOC-value (in g/l) ISO 11890-2: 1.189
VOC-value (in g/l) ASTM D 2369: 1.189

National regulations

Informations on working limitations:

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.
Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

15.2. **Chemical Safety Assessment**

Chemical safety assessments for substances in this preparation were not carried out.

16. Other information

Relevant R-and H-phrases (Number and full text):

Xi; R36/37/38 R43	Irritant	Irritating to eyes, respiratory system and skin. May cause sensitization by skin contact.
N; R51-53	Dangerous for the environment	Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.
Xi; R38-41	Irritant	Irritating to skin. Risk of serious damage to eyes.
R52-53		Harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.
Xn; R22	Harmful	Harmful if swallowed.