

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

TREFFERT

Article no.: 6513371000
Date of print: 09.01.2014
version: 6

UV SUPERMATT TOPCOAT
Revision date: 08.01.2014
Date of issue: 08.01.2014

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

1.1. Product identifiers:

Article no. (manufacturer / supplier): 6513371000
Identification of the substance or preparation: UV SUPERMATT TOPCOAT

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

Relevant identified uses

Industrial Wood- and Foilcoatings

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@treffert.com.cn

Website: www.treffert.com

Dept. responsible for information:

Hazardous substance management/Laboratory: +86 21 5165 1818

E-mail (competent person): treffertchina@treffert.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):

This mixture is classified as hazardous according to regulation (EC) No. 1272/2008 [CLP].

Skin Irrit. 2 / H315

Skin corrosion/irritation:

Causes skin irritation.

Eye Dam. 1 / H318

Serious eye damage/eye irritation:

Causes serious eye damage..

Skin Sens. 1 / H317

Respiratory or skin sensitisation:

May cause an allergic skin reaction.

Aquatic Chronic 2 / H411

Hazardous to the aquatic environment:

Toxic to aquatic life with long lasting effects.

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

The preparation is dangerous in the sense of Directive 1999/45/EC.

Xi; R38-41

Irritant

Irritating to skin. Risk of serious damage to eyes.

R43

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.

2.2. Label elements

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

Labelling (CLP)

Hazard pictograms



Danger

Hazard Statements:

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:

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.

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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.
P391 Collect spillage.
P501 Dispose of contents/container to industrial incineration plant.

contains:

DPGDA
hexamethylene diacrylate (HDDA)

Supplemental Hazard information (EU):

NA

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



Xi Irritant



N Dangerous for the environment

Hazard Statements:

38 Irritating to 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:

hexamethylene diacrylate (HDDA)
2-hydroxyethyl methacrylate (HEMA)

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: UV - formulation based on acrylate resin

Hazardous ingredients:

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

EC No:	REACH No:	% by weight
CAS No.:	chemical name:	Remark:
INDEX no.:	classification:	
235-921-9		25 - 35
13048-33-4	hexamethylene diacrylate (HDDA)	
607-109-00-8	Eye Irrit. 2 H319 / Skin Irrit. 2 H315 / Skin Sens. 1 H317	
500-114-5		10 - 12.5
52408-84-1	Propoxylated glyceryl tri-acrylate Oligotriacrylate (GPTA) Skin Irrit. 2 H315	
260-754-3		3 - 5
57472-68-1	DPGDA Skin Irrit. 2 H315 / Eye Dam. 1 H318 / Skin Sens. 1 H317	

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231-272-0 7473-98-5	2-Hydroxy-2-methyl-1-phenyl-propan-1-one Acute Tox. 4 H302 / Aquatic Acute 1 H400 / Aquatic Chronic 1 H410	2.5 - 3
212-782-2 868-77-9 607-124-00-X	2-hydroxyethyl methacrylate (HEMA) Eye Irrit. 2 H319 / Skin Irrit. 2 H315 / Skin Sens. 1 H317	2 - 2.5
204-337-6 119-61-9	BENZOPHENONE Eye Irrit. 2 H319 / STOT SE 3 H335 / Skin Irrit. 2 H315 / Aquatic Chronic 3 H412	1 - 2
402-990-3 163701-01-0	Repr. 2 H361f	0.2 - 0.3

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:
235-921-9 13048-33-4 607-109-00-8	hexamethylene diacrylate (HDDA) Xi; R36/38 / R43	25 - 35
500-114-5 52408-84-1	Propoxylated glyceryl tri-acrylate Oligotriacrylate (GPTA) Xi; R36	10 - 12.5
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 / N; R50-53	2.5 - 3
212-782-2 868-77-9 607-124-00-X	2-hydroxyethyl methacrylate (HEMA) Xi; R36/38 / R43	2 - 2.5
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 unconscious 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.

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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 protective 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.

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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 value	unit
CAS No.:			STEL (EC) TWA (EC)	
-				

Additional information

TWA (EC): Occupational exposure limit value
 STEL (EC): Short term occupational exposure limit value

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 oder 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)	235 °C		
lower explosion limit:	0.8 Vol-%		
Upper explosion limit:	12.0 Vol-%		
Vapour pressure at 25 °C:	NA		
density at 25 °C:	1.16 g/cm³		
Water solubility (g/l):	insoluble		
pH at 25 °C:	-		
Viscosity at 25 °C	25 s 6 mm	DIN 53211	
Solvent separation test (%):	< 3 %		
Solid content (%):	97 % by weight		
solvent content:			
Organic solvents::	0.20 % by weight		
Water:	0.00 % by weight		

9.2. **Other information:**

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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: heat, 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 droplets 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

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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 EC directives 75/442/EEC and 91/689/EEC in the corresponding versions, 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

14.1. UN-No.:

3082

14.2. UN proper shipping name

Land transport (ADR/RID):

Environmentally hazardous substance, liquid, n.o.s.
(2-Hydroxy-2-methyl-1-phenyl-propan-1-on)

Sea transport (IMDG):

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(2-Hydroxy-2-methyl-1-phenyl-propan-1-on)

Air transport (ICAO-TI / IATA-DGR):

Environmentally hazardous substance, liquid, n.o.s.
(2-Hydroxy-2-methyl-1-phenyl-propan-1-on)

14.3. Transport hazard class(es)

9

14.4. Packing Group:

III

14.5. Environmental hazards:

Land transport (ADR/RID)

Dangerous for the environment

Marine pollutant:

p / 2-Hydroxy-2-methyl-1-phenyl-propan-1-on

14.6. Special precautions for user

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:

E

Sea transport (IMDG)

EmS-No.:

F-A, S-F

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14.7. **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**
 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: 37.983

VOC-value (in g/l) ASTM D 2369: 39.603

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):

Eye Irrit. 2 / H319	Serious eye damage/eye irritation:	Causes serious eye irritation.
Skin Irrit. 2 / H315	Skin corrosion/irritation:	Causes skin irritation.
Skin Sens. 1 / H317	Respiratory or skin sensitisation:	May cause an allergic skin reaction.
Eye Dam. 1 / H318	Serious eye damage/eye irritation:	Causes serious eye damage..
Acute Tox. 4 / H302	Acute toxicity (oral):	Harmful if swallowed.
Aquatic Acute 1 / H400	Hazardous to the aquatic environment:	Very toxic to aquatic life.
Aquatic Chronic 1 / H410	Hazardous to the aquatic environment:	Very toxic to aquatic life with long lasting effects.
STOT SE 3 / H335	Specific target organ toxicity (single exposure):	May cause respiratory irritation.
Aquatic Chronic 3 / H412	Hazardous to the aquatic environment:	Harmful to aquatic life with long lasting effects.
Repr. 2 / H361	Reproductive toxicity:	Suspected of damaging fertility.
Xi; R36/38	Irritant	Irritating to eyes and skin.
R43		May cause sensitization by skin contact.
Xi; R38-41	Irritant	Irritating to skin. Risk of serious damage to eyes.
Xi; R36/37/38	Irritant	Irritating to eyes, respiratory system and skin.
R52-53		Harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.
Xn; R22	Harmful	Harmful if swallowed.
N; R50-53	Dangerous for the environment	Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.
Xi; R36	Irritant	Irritating to eyes.

Further remarks:

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in chapter 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.