

MATERIAL SAFETY DATA SHEET

according to 2001/58 EC

3039715

Reviewed on: 27.09.2019

Printing date: 27.09.2019

01 Identification of the hazardous chemical and of the supplier

- **Product identifier**
- **Trade name:**
OWOSUN UV 1239
- **Article number / Safety Data Sheet:**
123900SDB
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Teknos Feyco AG
Industriestrasse 3
LI-9487 Gamprin-Bendern
T +423 375 94 00
F +423 375 94 99
- **Further information obtainable from:**
Product safety department.
e-mail address: li-sdb@teknos.com
- **Emergency telephone number:**
Swiss Toxicological Information Centre
Emergency telephone: +41 (0)44 251 51 51

02 Hazard identification

- *Classification of the substance or mixture*



GHS07

Skin Sens. 1 - H317 May cause allergic skin reaction.

- *Label elements*
- GHS label elements
- Hazard pictograms



GHS07

- **Signal word**
Warning

- **Hazard-determining components of labelling:**
2-propenoic acid, reaction products with dipenta-erthritol
- **Hazard statements**
H317 May cause allergic skin reaction.
- **Precautionary statements**
P261 Avoid breathing dust/fume/ gas/mist/vapours/spray.
P272 Contaminated work clothing shall not be allowed out of the workplace.
P280 Wear protective gloves.
P302+P352 IF ON SKIN: Wash with plenty of water.
P321 Specific treatment (see on this label).
P501 Dispose of contents/container in accordance with local/regional/ national/international regulations.

03 Composition and information of the ingredients of the hazardous chemical

- **Chemical characterization: Mixtures**
- **Description:**
Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

CAS Number**28961-43-5****Propylidynetrimethanol, ethoxylated, esters****%****0,50- 1,00***(continued on page 2)*

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	<p>with acrylic acid EC number: 500-066-5 Record number 01-2119489900-30 ⚠ Eye Irrit. 2 - H319, Skin Sens. 1 - H317</p>	
1384855-91-7	<p>2-propenoic acid, reaction products with dipenta-erthritol ⚠ Eye Irrit. 2 - H319, Skin Sens. 1 - H317; Aquatic Chronic 3 - H412</p>	1,00- 5,00
100-74-3	<p>4-ethylmorpholine EC number: 202-885-0 ⚠ Flam. Liq. 2 - H225; ⚠ Acute Tox. 4 - H302</p>	0,00- 0,50
55965-84-9	<p>reaction mass of: 5-chloro-2-methyl-4- isothiazolin-3-one [EC no. 247-500-7] and 2- methyl-2H-isothiazol-3-one [EC no. 220-239- 6] (3: 1) ⚠ Skin Corr. 1B - H314; ⚠ Acute Tox. 3 - H301, Acute Tox. 3 - H311, Acute Tox. 3 - H331; ⚠ Skin Sens. 1 - H317; ⚠ Aquatic Acute 1 - H400, Aquatic Chronic 1 - H410</p>	0,00- 0,50
67-64-1	<p>acetone EC number: 200-662-2 Record number 01-2119471330-49 ⚠ Flam. Liq. 2 - H225; ⚠ Eye Irrit. 2 - H319, STOT SE 3 - H336</p>	0,00- 0,50
111-76-2	<p>2-butoxyethanol EC number: 203-905-0 Record number 01-2119475108-36 ⚠ Acute Tox. 4 - H302, Acute Tox. 4 - H312, Acute Tox. 4 - H332, Skin Irrit. 2 - H315, Eye Irrit. 2 - H319</p>	0,00- 0,50
106797-53-9	<p>2-Hydroxy-4'-hydroxyethoxy-2- methylpropiophenon EC number: 402-670-3 Record number 01-0000015241-83 ⚠ Aquatic Chronic 2 - H411</p>	0,50- 1,00
162881-26-7	<p>phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide EC number: 423-340-5 Record number 01-2119489401-38 ⚠ Skin Sens. 1 - H317; Aquatic Chronic 4 - H413</p>	0,00- 0,50

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04 First-aid measures

- **After inhalation:**
Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:**
Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**
Rinse opened eye for several minutes under running water.
- **After swallowing:**
Do not induce vomiting; call for medical help immediately.

05 Fire-fighting measures

- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture**
Formation of toxic gases is possible during heating or in case of fire.
- **Protective equipment:**
Mouth respiratory protective device.
Do not inhale explosion gases or combustion gases.
- **Additional information**
Cool endangered receptacles with water spray.
Collect contaminated fire fighting water separately. It must not enter the sewage system.

06 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
- **Environmental precautions:**
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

07 Handling and storage

- **Handling:**
- **Precautions for safe handling**
Prevent formation of aerosols.
- **Information about fire - and explosion protection:**
No special measures required.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Store only in the original receptacle.
- **Information about storage in one common storage facility:**
Not required.
- **Further information about storage conditions:**
Protect from frost.
Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.
- **Specific end use(s)**
No further relevant information available.

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08 Exposure controls and personal protection

- Ingredients with limit values that require monitoring at the workplace:**

100-74-3	4-ethylmorpholine		
PEL			
	Long-term value	24	mg/m3
		5	ppm
	(kulit)		
67-64-1	acetone		
PEL			
	Long-term value	1187	mg/m3
		500	ppm
111-76-2	2-butoxyethanol		
PEL			
	Long-term value	96.7	mg/m3
		20	ppm
	(kulit)		

- Additional information:**
The lists valid during the making were used as basis.
- Personal protective equipment:**
- General protective and hygienic measures:**
The usual precautionary measures are to be adhered to when handling chemicals.
Immediately remove all soiled and contaminated clothing
Do not inhale gases / fumes / aerosols.
Avoid contact with the eyes and skin.
Do not eat or drink while working.
Be sure to clean skin thoroughly after work and before breaks.
- Respiratory protection:** *In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. Suitable respiratory protective device recommended. Use suitable respiratory protective device in case of insufficient ventilation.*
- Protection of hands:** *The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation Protective gloves Impervious gloves*
- Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.
- Eye protection:** *Safety glasses*
- Body protection:** *Protective work clothing*

09 Physical and chemical properties**Appearance****Appearance:**

Form:	Liquid
Colour:	According to product specifica
Odour:	Characteristic Characteristic
Odour threshold:	Not determined.

Change in condition

Melting point/freezing point:	0 °C
Initial boiling point and boiling range:	Undetermined.
Flash point:	Not applicable.
Flammability (solid, gas):	Not applicable.

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Ignition temperature:	Undetermined.
Decomposition temperature:	Not determined.
Auto-ignition temperature:	Not determined.
Explosive properties:	Not determined.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapour pressure:	at 20 °C 23,0000 mbar
Density:	1,0200 g/cm3
Solubility in / Miscibility with water:	Not determined.
Viscosity:	Not determined.
.	at 20 °C 48 - 54 s
Other information	No further relevant information available.

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Incompatible materials:**
No further relevant information available.
- **Hazardous decomposition products:**
No dangerous decomposition products known.

11 Toxicological information

- **Acute toxicity**
- **LD/LC50 values relevant for classification:**
 - 100-74-3 4-ethylmorpholine**
Oral, LD50: 1780 mg/kg (rat)
 - 121-44-8 triethylamine**
Oral, LD50: 460 mg/kg (rat)
Dermal, LD50: 570 mg/kg (Rabbit)
 - 108-01-0 2-dimethylaminoethanol**
Oral, LD50: 2000 mg/kg (rat)
Dermal, LD50: 1370 mg/kg (Rabbit)
Inhalative, LC50/4h: 3,25 mg/l (mouse)
 - 67-64-1 acetone**
Oral, LD50: 5800 mg/kg (rat)
Dermal, LD50: 20000 mg/kg (Rabbit)
 - 50-00-0 formaldehyde**
Oral, LD50: >200 mg/kg (rat)
 - 111-76-2 2-butoxyethanol**
Oral, LD50: 1746 mg/kg (rat)
Oral, LD50: 1414 mg/kg (guinea Pig)
Dermal, LD50: 2000 mg/kg (rat)
Dermal, LD50: 1000 mg/kg (Rabbit)
Dermal, LD50: 2000 mg/kg (guinea Pig)
 - 57-55-6 Propylene glycol**
Oral, LD50: 2000 mg/kg (rat)
Dermal, LD50: 20800 mg/kg (Rabbit)
 - 67-63-0 propan-2-ol**
Oral, LD50: 5045 mg/kg (rat)
Dermal, LD50: 12800 mg/kg (Rabbit)
Inhalative, LC50/4h: 30 mg/l (rat)
- **Primary irritant effect:**

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- Skin corrosion/irritation
No irritant effect.
- Serious eye damage/irritation
No irritating effect.
- *Respiratory or skin sensitisation*
Sensitisation possible through skin contact.
- **Additional toxicological information:**
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
Irritant

12 Ecological information

- Aquatic toxicity:
No further relevant information available.
- **Persistence and degradability**
No further relevant information available.
- **Behaviour in environmental systems:**
- *Bioaccumulative potential*
No further relevant information available.
- **Additional ecological information:**
- *General notes:*
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 Disposal information

- **Uncleaned packaging:**
- *Recommendation:*
Disposal must be made according to official regulations.
- *Recommended cleansing agents:*
Water, if necessary together with cleansing agents.

14 Transportation information

- **UN-Number**
- ADR Void
- IMDG Void
- IATA Void
- **UN proper shipping name**
- ADR Void
- IMDG Void
- IATA Void
- **Transport hazard class(es)**
- ADR Void
- Class Void
- IMDG Void
- Class Void
- IATA Void
- Class Void
- **Packing group**
- ADR Void
- IMDG Void
- IATA Void
- **Environmental hazards:**
Not applicable.
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**
Not applicable.

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- **Transport/Additional information:**
Not applicable.

15 Regulatory information

- **National regulations:**
- **Classification according to VbF:**
-
- **Technical instructions (air):**
- **Class Share in %**

I	0,83
III	0,15
- **Waterhazard class:**
Water hazard class 1 (Self-assessment): slightly hazardous for water.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**

H225	Highly flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic if in contact with skin.
H312	Harmful if in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause allergic skin reaction.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.
- **Department issuing MSDS:**
Environment protection department.
- **Abbreviations and acronyms:**
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
ICAO: International Civil Aviation Organisation
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VbF: Verordnung über brennbare Flüssigkeiten, Österreich (Ordinance on the storage of combustible liquids, Austria)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
- *** Data compared to the previous version altered.**