Professional Coating Systems

Printing date 02.07.2020

Version number 1

Revision: 02.07.2020

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### · 1.1 Product identifier

· Trade name: 1K-UV-Klarlack

· 1.2 Relevant	identified use	s of the substan	ce or mixti	ire and use	s advised against
No further rea	levant informa	ation available.			_

· Application of the substance / the mixture Clear coating material, Varnish

· 1.3 Details of the supplier of the safety data sheet · Manufacturer/Supplier: MIPA SE Am Oberen Moos 1 D-84051 Essenbach Tel.: +49(0)8703-922-0 Fax.: +49(0)8703-922-100 e-mail: sdb-registratur@mipa-paints.com www.mipa-paints.com • 1.4 Emergency telephone number: +49(0)700 24112112 (MIP)

## **SECTION 2: Hazards identification**

· 2.1 Classification of the substance or mixture · Classification according to Regulation (EC) No 1272/2008

GHS02	flame	
Flam. Liq. 2	H225 Highly flammable liquid and vapour.	
GHS08	health hazard	
Repr. 2	H361f Suspected of damaging fertility.	
GHS05	corrosion	
Eye Dam. 1	H318 Causes serious eye damage.	
GHS09	environment	
Aquatic Chronic 2	2 H411 Toxic to aquatic life with long lasting effects.	
GHS07	,	
Skin Irrit. 2	H315 Causes skin irritation.	
Skin Sens. 1	H317 May cause an allergic skin reaction.	
STOT SE 3	H336 May cause drowsiness or dizziness.	
	<b>ts</b> <b>ing to Regulation (EC) No 1272/2008</b> issified and labelled according to the CLP regulation. (Contd. on page	ge 2)

Professional Coating Systems

Revision: 02.07.2020

Printing date 02.07.2020

Version number 1

Trade name: 1K-UV-Klarlack



#### SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

· Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:		
CAS: 141-78-6 EINECS: 205-500-4 Reg.nr.: 01-2119475103-46	ethyl acetate 🚯 Flam. Liq. 2, H225; 🚸 Eye Irrit. 2, H319; STOT SE 3, H336	25-50%
CAS: 2123508-19-8	Hexane, 1,6-diisocyanato-, polymers with 2-hydroxyethyl acrylate-blocked 1,6-diisocyanatohexane homopolymer, 2- hydroxyethyl acrylate- and pentaerythritol triacrylate-blocked \$\vee\$ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	10-25%
CAS: 13048-33-4 EINECS: 235-921-9 Reg.nr.: 01-2119484737-22	hexamethylene diacrylate Aquatic Acute 1, H400; Aquatic Chronic 2, H411; () Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	≥10-<25%
0		Contd. on page 3

GB

## Safety data sheet

according to 1907/2006/EC, Article 31



Revision: 02.07.2020

Printing date 02.07.2020

Version number 1

Trade name: 1	K-UV-Klarlack
---------------	---------------

CAS: 4986-89-4	pentaerythritol tetraacrylate	(Contd. of page 2 $\geq 3 - < 10\%$
EINECS: 225-644-1	♦ Eye Dam. 1, H318;	
CAS: 15625-89-5 EINECS: 239-701-3 Reg.nr.: 01-2119489896-11	2,2-bis(acryloyloxymethyl)butyl acrylate Aquatic Acute 1, H400; Aquatic Chronic 1, H410; () Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	2.5-<10%
CAS: 75980-60-8 EINECS: 278-355-8	diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide Repr. 2, H361f; Aquatic Chronic 2, H411; Skin Sens. 1B, H317	≥3-<10%
EC number: 915-687-0 Reg.nr.: 01-2119491304-40	Reaction mass of pentamethyl-piperidyl sebacate Aquatic Acute 1, H400; Aquatic Chronic 1, H410; (I) Skin Sens. 1A, H317	≥0.25-<1%

or the woraing of the listea hazara ph

## **SECTION 4:** First aid measures

• 4.1 Description of 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 eve contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. · After swallowing: If symptoms persist consult doctor.

- 4.3 Indication of any immediate medical attention and special treatment needed
- No further relevant information available.
- · Information for doctor:

## **SECTION 5:** Firefighting measures

· 5.1 Extinguishing media

- Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.
- For safety reasons unsuitable extinguishing agents: Water with full jet
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- · 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

## **SECTION 6:** Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

- Wear protective equipment. Keep unprotected persons away.
- · 6.2 Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.

· 6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

· 6.4 Reference to other sections

See Section 7 for information on safe handling.

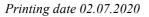
See Section 8 for information on personal protection equipment.

(Contd. on page 4)

GB

Safety data sheet

according to 1907/2006/EC, Article 31



Version number 1



Revision: 02.07.2020

(Contd. of page 3)

Trade name: 1K-UV-Klarlack

See Section 13 for disposal information.

**SECTION 7: Handling and storage** 

#### • 7.1 Precautions for safe handling Keep away from heat and direct sunlight. Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.

- *Information about fire and explosion protection: Keep ignition sources away - Do not smoke. Protect against electrostatic charges.*
- 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: Store in a cool location.
- · Information about storage in one common storage facility: Store away from foodstuffs.
- Further information about storage conditions: Keep container tightly sealed.
- Store in cool, dry conditions in well sealed receptacles.
- · Storage class: 3
- 7.3 Specific end use(s) No further relevant information available.

## SECTION 8: Exposure controls/personal protection

- Additional information about design of technical facilities: No further data; see item 7.
- · 8.1 Control parameters
- · Ingredients with limit values that require monitoring at the workplace:

#### 141-78-6 ethyl acetate

WEL Short-term value: 1468 mg/m<sup>3</sup>, 400 ppm Long-term value: 734 mg/m<sup>3</sup>, 200 ppm

· Additional information: The lists valid during the making were used as basis.

- · 8.2 Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures:
- Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.
- · 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.

#### • Protection of hands:



Protective gloves (EN 374)

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

(Contd. on page 5)

GB



Revision: 02.07.2020

*Printing date 02.07.2020* 

#### Version number 1

#### Trade name: 1K-UV-Klarlack

#### (Contd. of page 4)

· 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.

### · Breakthrough time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

#### · Eye protection:



Tightly sealed goggles

## **SECTION 9: Physical and chemical properties**

• General Information	
· Appearance:	
Form:	Fluid
Colour:	According to product specification
· Odour:	Characteristic
· Odour threshold:	Not determined.
pH-value:	Not determined.
· Change in condition	
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range	: 77-78 °C
· Flash point:	-4 °C (DIN EN ISO 1523:2002)
· Flammability (solid, gas):	Not applicable.
· Ignition temperature:	235 °C (DIN 51794)
Decomposition temperature:	Not determined.
• Auto-ignition temperature:	Product is not selfigniting.
Explosive properties:	Product is not explosive. However, formation of explosive air vapour mixtures are possible.
• Explosion limits:	
Lower:	2.1 Vol %
Upper:	11.5 Vol %
· Vapour pressure at 20 °C:	97 hPa
· Density at 20 °C:	1.021 g/cm <sup>3</sup> (DIN EN ISO 2811-1)
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
water:	Not miscible or difficult to mix.
Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
Dynamic:	Not determined.

Safety data sheet

according to 1907/2006/EC, Article 31



Revision: 02.07.2020

Printing date 02.07.2020

Version number 1

Trade name: 1K-UV-Klarlack

		(Contd. of page 5
Kinematic at 20 °C:	15-20 s (DIN 53211/4)	
· Solvent content:	37 60 %	
VOC (EC) Solids content (weight-%):	62.4%	
• 9.2 Other information	No further relevant information available.	

## **SECTION 10: Stability and reactivity**

· 10.1 Reactivity No further relevant information available.

- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- · 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: Carbon monoxide

## **SECTION 11: Toxicological information**

• 11.1 Information on toxicological effects

• Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

#### 4986-89-4 pentaerythritol tetraacrylate

Oral LD50 >800 mg/kg (rat)

· Primary irritant effect:

- Skin corrosion/irritation
- Causes skin irritation.
- · Serious eve damage/irritation
- Causes serious eye damage.
- · Respiratory or skin sensitisation
- May cause an allergic skin reaction.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity
- Suspected of damaging fertility.
- · STOT-single exposure
- May cause drowsiness or dizziness.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.

## **SECTION 12: Ecological information**

· 12.1 Toxicity

- Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- · Remark: Harmful to fish

(Contd. on page 7)

GB



Revision: 02.07.2020

Printing date 02.07.2020

#### Version number 1

Trade name: 1K-UV-Klarlack

(Contd. of page 6)

## · Additional ecological information:

· General notes:

Water hazard class 2 (German Regulation) : hazardous for water

Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

Harmful to aquatic organisms

## · 12.5 Results of PBT and vPvB assessment

- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

### **SECTION 13: Disposal considerations**

· 13.1 Waste treatment methods

#### · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

#### · European waste catalogue

08 01 11\* waste paint and varnish containing organic solvents or other hazardous substances

#### · Uncleaned packaging:

· Recommendation:

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

· 14.1 UN-Number · ADR, IMDG, IATA	UN1263
· 14.2 UN proper shipping name	
ADR	UN1263 PAINT, ENVIRONMENTALLY HAZARDOUS
·IMDG	PAINT (hexamethylene diacrylate), MARINE POLLUTAN
·IATA	PAINT
· 14.3 Transport hazard class(es)	
	2 (E1) Elemente la limita
· Class · Label	3 (F1) Flammable liquids.
· Label	3 (F1) Flammable liquids. 3
· Class · Label · IMDG	



Revision: 02.07.2020

Printing date 02.07.2020

Version number 1

Trade name: 1K-UV-Klarlack

	(Contd. of page
· Label	3
· IATA	
· Class	3 Flammable liquids.
· Label	3
· 14.4 Packing group	
ADR, IMDG, IATA	II
14.5 Environmental hazards:	Product contains environmentally hazardous substances diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide
Marine pollutant:	Symbol (fish and tree)
Special marking (ADR):	Symbol (fish and tree)
14.6 Special precautions for user	Warning: Flammable liquids.
Danger code (Kemler):	33
EMS Number:	<i>F-E,<u>S-E</u></i>
Stowage Category	В
14.7 Transport in bulk according to Ann	
Marpol and the IBC Code	Not applicable.
Transport/Additional information:	
ADR	
Transport category	2
Tunnel restriction code	D/E
IMDG	
Limited quantities (LQ)	5L
UN "Model Regulation":	UN 1263 PAINT, 3, II, ENVIRONMENTALL HAZARDOUS

## **SECTION 15: Regulatory information**

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

- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · Seveso category
- E2 Hazardous to the Aquatic Environment
- P5c FLAMMABLE LIQUIDS
- Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

· National regulations:

Class	Share in %
NK	25-50

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

(Contd. on page 9)

GB

<sup>·</sup> Directive 2012/18/EU

Professional Coating Systems

Revision: 02.07.2020

Printing date 02.07.2020

Version number 1

Trade name: 1K-UV-Klarlack

(Contd. of page 8)

## **SECTION 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. H302 Harmful if swallowed. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. H361f Suspected of damaging fertility. 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. · Classification according to Regulation (EC) No 1272/2008 The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008. · 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) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association 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) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Liq. 2: Flammable liquids – Category 2 Acute Tox. 4: Acute toxicity – Category 4 Skin Irrit. 2: Skin corrosion/irritation - Category 2 Eye Dam. 1: Serious eye damage/eye irritation - Category 1 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 Skin Sens. 1: Skin sensitisation - Category 1 Skin Sens. 1A: Skin sensitisation - Category 1A Skin Sens. 1B: Skin sensitisation - Category 1B Repr. 2: Reproductive toxicity – Category 2 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2