

Printing date 20.11.2018 Version number 4 Revision: 20.11.2018

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

· 1.1 Product identifier

· Trade name: Polimar UV

· Article number: 700060

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

· Sector of Use

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

SU19 Building and construction work

SU22 Professional uses: Public domain (administration, education, entertainment, services,

craftsmen)

· Application of the substance / the mixture Liquid waterproofing top coat for roofs.

· 1.3 Details of the supplier of the safety data sheet

· Manufacturer/Supplier:

IKO Europe nv d'Herbouvillekaai 80

B-2020 Antwerpen Belgium

Tel.: +32 (0)3 248 30 00 E-mail: sds.europe@iko.com

· Further information obtainable from:

National Poisons Information Service UK: England and Wales: 0845 4647 Scotland: 08454 24 24 24; National Poisons Information Centre Ireland: +00 353 (0) 1 837 9964 or +00 353 (0) 1 809 2566. NPIS & NPIC services are provided exclusively for healthcare professionals working in NHS.

· 1.4 Emergency telephone number:

United Kingdom National Poisons Information Service (+44) 844 892 0111 - 0344 892 0111 Ireland National Poisons Information Centre Tel: +353 1 8092566 Emergency call only for healthcare professionals

SECTION 2: Hazards identification

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

Flam. Lig. 3 H226 Flammable liquid and vapour.

Acute Tox. 4 H332 Harmful if inhaled.

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

· Hazard pictograms







GHS02 GHS07 GHS08

- · Signal word Danger
- · Hazard-determining components of labelling:

sebacate derivatives benzotriazole derivatives aliphatic polyisocyanate trimethylhexane-1,6-diamine

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Safety data sheet according to 1907/2006/EC, Article 31

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Isophorone diisocyanate polymer

4,4'-isopropylidenediphenol

· Hazard statements

H226 Flammable liquid and vapour.

H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

· Precautionary statements

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P241 Use explosion-proof electrical/ventilating/lighting equipment.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P284 [In case of inadequate ventilation] wear respiratory protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin

with water/shower.

P501 Dispose of contents/container in accordance with local/regional/national/

international regulations.

· UFI: MNHM-D8YA-T006-8R0V

· Additional information:

EUH204 Contains isocyanates. May produce an allergic reaction.

SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

· Description: Resin mixture

 Dangerous components: 		
CAS: 426822-87-9	aliphatic polyisocyanate Skin Sens. 1, H317	10-25%
CAS: 26444-49-5 EINECS: 247-693-8	diphenyl tolyl phosphate Aquatic Acute 1, H400 Aquatic Chronic 3, H412	≥10-<25%
CAS: 108-65-6 EINECS: 203-603-9 Reg.nr.: 01-2119475791-29	2-methoxy-1-methylethyl acetate Flam. Liq. 3, H226 STOT SE 3, H336	10<20%
CAS: 140921-24-0 ELINCS: 411-700-4 Reg.nr.: 01-0000015906-63	1,6-hexanediyl-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl) ethyl)carbamate Skin Sens. 1, H317	≥5-<10%
CAS: 53880-05-0 NLP: 500-125-5 Reg.nr.: 01-2119488734-24	Isophorone diisocyanate polymer Skin Sens. 1, H317; STOT SE 3, H335	≥5-<10%
CAS: 115-86-6 EINECS: 204-112-2 Reg.nr.: 01-2119457432-41	triphenyl phosphate Aquatic Acute 1, H400; Aquatic Chronic 2, H411	2.5-5%
EC number: 918-668-5 Reg.nr.: 01-2119455851-35	Solvent naphtha (petroleum), light arom. Flam. Liq. 3, H226 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 STOT SE 3, H335-H336	≥1-<2.5%
CAS: 26488-60-8 EINECS: 247-735-5	2-Ethylexyl (6 -isocyanatohexyl)-carbamate Acute Tox. 3, H331 Resp. Sens. 1, H334 Skin Sens. 1B, H317; STOT SE 3, H335 Aquatic Chronic 3, H412	≥1-<2.5%



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CAS: 104810-48-2	(Co poly(oxy-1,2-ethanediyl), α-[3-[3-(2H-benzotriazol-2-yl)-5-	ontd. of page ≥0.5-<1%
ELINCS: 400-830-7	(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-ω- hydroxy- Aquatic Chronic 2, H411	20.5-<17
	Skin Sens. 1, H317	
CAS: 41556-26-7	Bis(1,2,,2,6,6-pentamethyl-4-piperidyl)sebacate Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Skin Sens. 1, H317	0.3-0.4%
CAS: 82919-37-7	methyl 1,2,2,6,6-pentamethyl-4-piperidylsebacate Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Skin Sens. 1, H317	0.3-0.4%
CAS: 104810-47-1	poly(oxy-1,2-ethanediyl), α-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-ω-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropoxy]-Aquatic Chronic 2, H411	0.3-0.49
	Skin Sens. 1, H317	
CAS: 25620-58-0 EINECS: 247-134-8	trimethylhexane-1,6-diamine Skin Corr. 1B, H314; Eye Dam. 1, H318 Acute Tox. 4, H302; Skin Sens. 1, H317 Aquatic Chronic 3, H412	0.2-0.39
CAS: 80-05-7 EINECS: 201-245-8 Reg.nr.: 01-2119457856-23	4,4'-isopropylidenediphenol Repr. 1B, H360F Eye Dam. 1, H318 Skin Sens. 1, H317; STOT SE 3, H335	0.1-0.29
CAS: 1185-81-5 EINECS: 214-688-7 Reg.nr.: 01-2119841260-50	dibutylbis(dodecyl)thiostannaan Muta. 2, H341; Repr. 1B, H360; STOT RE 1, H372 Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Acute Tox. 4, H312; Skin Irrit. 2, H315; Skin Sens. 1, H317	0.1%

· SVHC

CAS: 80-05-7 4,4'-isopropylidenediphenol

· Additional information: For the wording of the listed hazard phrases refer to section 16.

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 eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist consult doctor.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- · Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· For safety reasons unsuitable extinguishing agents: Water with full jet

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- · 5.2 Special hazards arising from the substance or mixture Not applicable.
- · 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).

Dispose contaminated material as waste according to item 13.

· 6.4 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.

SECTION 7: Handling and storage

- · 7.1 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.
- · 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: Not required.
- Further information about storage conditions: Keep container tightly sealed.

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:

CAS: 108-65-6 2-methoxy-1-methylethyl acetate

WEL Short-term value: 548 mg/m³, 100 ppm Long-term value: 274 mg/m³, 50 ppm

Sk -

CAS: 115-86-6 triphenyl phosphate

WEL Short-term value: 6 mg/m³ Long-term value: 3 mg/m³

- · 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.

· Respiratory protection:

Type A2/P2

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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: Solvent resistant gloves

· Material of gloves

brief contact: PVC, neoprene rubber prolonged contact: nitrile rubber

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.

· Eye protection:



Tightly sealed goggles

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· Appearance:

Form: Viscous
Colour: Various colours

Odour: Characteristic
Odour threshold: Not determined.

pH-value: Not determined.

· Change in condition

Melting point/freezing point: Undetermined.
Initial boiling point and boiling range: 160 °C
• Flash point: 44 °C

Flammability (solid, gas):
 Ignition temperature:
 Decomposition temperature:
 Not applicable.
 315 °C
 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: 1.5 Vol % Upper: 10.8 Vol % Not determined. · Oxidising properties · Vapour pressure at 20 °C: 3.4 hPa · Density at 20 °C: 1.17 g/cm³ · Relative density Not determined. · Vapour density Not determined. · Evaporation rate Not determined.

· Solubility in / Miscibility with

water: Insoluble.

• **organic solvents:** Miscible with many organic solvents.

· Partition coefficient: n-octanol/water: Not determined.

· Viscosity:

Dynamic: Not determined. **Kinematic:** Not determined.

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Solvent content:
 Organic solvents:
 Solids content:
 72.6 %

• **9.2 Other information** No further 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:

Hazardous decompositions products may be released during prolonged heating like smokes, carbon monoxide and dioxides.

SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- · Acute toxicity

Harmful if inhaled.

ATE (Acu	te Toxicity	/ Estimates)
•	-	>18.1 mg/l (rat)
CAS: 108-	-65-6 2-me	ethoxy-1-methylethyl acetate
Oral	LD50	8,532 mg/kg (rat)
Inhalative	LC50/4 h	35.7 mg/l (rat)
CAS: 1409	921-24-0 1	,6-hexanediyl-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate
Oral	LD50	>2,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)
CAS: 115-	-86-6 triph	enyl phosphate
Oral	LD50	>20,000 mg/kg (rat)
Dermal	LD50	>10,000 mg/kg (kon)
Solvent n	aphtha (p	etroleum), light arom.
Oral	LD50	>6,800 mg/kg (rat)
Dermal	LD50	>3,400 mg/kg (rab)
Inhalative	LC50/4 h	>10.2 mg/l (rat)
CAS: 2648	88-60-8 2-	Ethylexyl (6 -isocyanatohexyl)-carbamate
Oral	LD50	>2,500 mg/kg (rat)
Inhalative	LC50/4 h	0.521 mg/l (rat)
CAS: 2562	20-58-0 tri	methylhexane-1,6-diamine
Oral	LD50	900 mg/kg (rat)
CAS: 80-0	5-7 4,4'-is	opropylidenediphenol
Oral	LD50	3,250 mg/kg (rat)
Dermal	LD50	3,000 mg/kg (rabbit)

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CAS: 1185-81-5 dibutylbis(dodecyl)thiostannaan

Oral LD50 >2,000 mg/kg (rat)

Dermal LD50 1,500 mg/kg (rab)

· Primary irritant effect:

- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation

Splashes in the eyes may cause irritation and reversible local damage.

· Respiratory or skin sensitisation

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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 Based on available data, the classification criteria are not met.
- · STOT-single exposure Based on available data, the classification criteria are not met.
- · 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 to	xicity:	1	
CAS: 1409	921-24·	-0 1,6-hexanediyl-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate	
Inhalative	LC50	193 mg/l (daphnia)	
		316 mg/l (fish)	
CAS: 115-	·86-6 tr	iphenyl phosphate	
Inhalative	LC50	0.4 mg/l (fish)	
	EC50	1 mg/l (daphnia)	
CAS: 2648	38-60-8	3 2-Ethylexyl (6 -isocyanatohexyl)-carbamate	
Inhalative	LC50	>100 mg/l (fish) (96h)	
	EC50	>100 mg/l (daphnia) (48h)	
CAS: 118	CAS: 1185-81-5 dibutylbis(dodecyl)thiostannaan		
	EC50	0.11 mg/l (daphnia)	

- 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: Toxic for fish
- · Additional ecological information:
- · General notes:

Water hazard class 2 (German Regulation) (Self-assessment): 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.

Also poisonous for fish and plankton in water bodies.

Toxic for 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.

GB



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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.

- · Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport informati	on
· 14.1 UN-Number · ADR, IMDG	UN1866
· 14.2 UN proper shipping name· ADR· IMDG	UN 1866, RESIN SOLUTION, 3, III, (D/E) UN1866 HARS, OPLOSSING UN 1866, Resin solution, 3, III, (44°C c.c.) RESIN SOLUTION
· 14.3 Transport hazard class(es)	
· ADR, IMDG	
· Class · Label	3 Flammable liquids.3
· 14.4 Packing group · ADR, IMDG	III
· 14.5 Environmental hazards:	Not applicable.
 14.6 Special precautions for user Danger code (Kemler): EMS Number: 	Warning: Flammable liquids. 30 F-E, <u>S-E</u>
 14.7 Transport in bulk according to Ann of Marpol and the IBC Code 	ex II Not applicable.
· Transport/Additional information:	
· ADR · Limited quantities (LQ) · Excepted quantities (EQ) · Transport category	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml 3
· Tunnel restriction code	D/E
· UN "Model Regulation":	UN 1866 RESIN SOLUTION, 3



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SECTION 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed
- · Seveso category P5c FLAMMABLE LIQUIDS
- · Qualifying quantity (tonnes) for the application of lower-tier requirements 5.000 t
- · Qualifying quantity (tonnes) for the application of upper-tier requirements 50.000 t
- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 40
- · Regulation (EU) No 649/2012

CAS: 1185-81-5 dibutylbis(dodecyl)thiostannaan

Annex I Part 1

- · National regulations:
- · Other regulations, limitations and prohibitive regulations
- · Substances of very high concern (SVHC) according to REACH, Article 57

CAS: 80-05-7 4,4'-isopropylidenediphenol

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

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. This Safety Data Sheet (SDS) is calculated with a Calculation method based on CLP Annex I, parts 2 to 5.

· Relevant phrases

- H226 Flammable liquid and vapour.
- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H312 Harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H331 Toxic if inhaled.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H341 Suspected of causing genetic defects.
- H360 May damage fertility or the unborn child.
- H360F May damage fertility.
- H372 Causes damage to organs through prolonged or repeated exposure.
- 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.
- · Contact: sds.europe@iko.com
- · Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

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

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)

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LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative Flam. Liq. 3: Flammable liquids – Category 3 Acute Tox. 4: Acute toxicity – Category 4
Acute Tox. 3: Acute toxicity – Category 3

Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Dam. 1: Serious eye damage/eye irritation - Category 1 Resp. Sens. 1: Respiratory sensitisation - Category 1

Skin Sens. 1: Skin sensitisation - Category 1 Skin Sens. 1B: Skin sensitisation – Category 1B Muta. 2: Germ cell mutagenicity – Category 2 Repr. 1B: Reproductive toxicity – Category 1B Repr. 1B: Reproductive toxicity – Category 1B

STOT SE 3: Specific target organ toxicity (single exposure) - Category 3 STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1
Asp. Tox. 1: Aspiration hazard – Category 1

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 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3

· * Data compared to the previous version altered.