

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 03.03.2016

Version number 5

Revision: 03.03.2016

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

1.1 Product identifier

Trade name: **UNILUX Washprimer Hardener**

Article number: 6020

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

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

Application of the substance / the mixture Hardening agent/ Curing agent

Uses advised against SU21 Consumer uses: Private households / general public / consumers

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Carolux

Kerkenbos 10 77 T

6546 BB Nijmegen - Holland

Tel: 0031 (0)24 36 056 01

www.carolux.nl

Further information obtainable from: Product safety department: info@carolux.nl

1.4 Emergency telephone number:

National Poisoning Information Centre - Bilthoven - The Netherlands

T +31 (0)30 274 88 88

Restricted to physicians for information on ingredients.

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 H361d Suspected of damaging the unborn child.

STOT RE 2 H373 May cause damage to the central nervous system through prolonged or repeated exposure. Route of exposure: Inhalation.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.



GHS07

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

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:

toluene

Hazard statements

H225 Highly flammable liquid and vapour.

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H319 Causes serious eye irritation.

H361d Suspected of damaging the unborn child. H336 May cause drowsiness or dizziness.

H373 May cause damage to the central nervous system through prolonged or repeated exposure. Route of exposure: Inhalation.

H304 May be fatal if swallowed and enters airways.

Precautionary statements

P260 Do not breathe mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P331 Do NOT induce vomiting.

Additional information:

Restricted to professional users.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

SECTION 3: Composition/information on ingredients**3.2 Chemical characterisation: Mixtures**

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components %(m/m):

CAS: 64-17-5	ethanol	25-50%
EINECS: 200-578-6	Flam. Liq. 2, H225	
Reg.nr.: 01-2119457610-43		
CAS: 108-88-3	toluene	25-50%
EINECS: 203-625-9	Flam. Liq. 2, H225; Repr. 2, H361d; STOT RE 2, H373; Asp. Tox. 1, H304; Skin Irrit. 2,	
Reg.nr.: 01-2119471310-51	H315; STOT SE 3, H336	
CAS: 141-78-6	ethyl acetate	10-25%
EINECS: 205-500-4	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	
Reg.nr.: 01-2119475103-46		
CAS: 7664-38-2	phosphoric acid	2,5-10%
EINECS: 231-633-2	Met. Corr. 1, H290; Skin Corr. 1B, H314	
Reg.nr.: 01-2119485924-24		
CAS: 67-56-1	methanol	0,5-2,5%
EINECS: 200-659-6	Flam. Liq. 2, H225; Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331;	
Reg.nr.: 01-2119433307-44	STOT SE 1, H370	

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

SECTION 4: First aid measures**4.1 Description of first aid measures****General information:**

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact:

Immediately rinse with water.

Seek immediate medical advice.

After eye contact:

Rinse opened eye for several minutes under running water. Then consult a doctor.

Remove contactlenses.

After swallowing:

Do not induce vomiting; call for medical help immediately.

Rinse out mouth and then drink plenty of water.

4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

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- 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 or powder. Fight larger fights with alcohol resistant foam.
- For safety reasons unsuitable extinguishing agents: Water with full jet

- 5.2 Special hazards arising from the substance or mixture
During heating or in case of fire poisonous gases are produced.
Carbon monoxide (CO)

5.3 Advice for firefighters

- Protective equipment: Wear self-contained respiratory protective device.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Mount respiratory protective device.
- Wear protective equipment. Keep unprotected persons away.

- 6.2 Environmental precautions: 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.
Ensure adequate ventilation.

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.
- Prevent formation of aerosols.

Information about fire - and explosion protection:

- Keep ignition sources away - Do not smoke.
- Protect against electrostatic charges.
- Keep respiratory protective device available.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

- Requirements to be met by storerooms and receptacles:
Store in a cool location.
Store only in the original receptacle.
- Information about storage in one common storage facility: Store away from oxidising agents.
- Further information about storage conditions: Keep container tightly sealed.

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:

7664-38-2 phosphoric acid

- IOELV Short-term value: 2 mg/m³
- Long-term value: 1 mg/m³

67-56-1 methanol

- IOELV Long-term value: 260 mg/m³, 200 ppm Skin

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· DNELs**64-17-5 ethanol**

Dermal	Long-term exposure - systemic effects	34,3 mg/kg bw/day (worker)
Inhalative	Acute - short-term exposure - local effects	1900 mg/m3 (worker)
	Long-term exposure - systemic effects	950 mg/m3 (worker)

108-88-3 toluene

Dermal	Long-term exposure - systemic effects	384 mg/kg bw/day (worker)
Inhalative	Acute - short-term exposure - systemic effects	384 mg/m3 (worker)
	Acute - short-term exposure - local effects	384 mg/m3 (worker)
	Long-term exposure - systemic effects	192 mg/m3 (worker)
	Long-term exposure - local effects	192 mg/m3 (worker)

141-78-6 ethyl acetate

Dermal	Long-term exposure - systemic effects	63 mg/kg bw/day (worker)
Inhalative	Acute - short-term exposure - systemic effects	1468 mg/m3 (worker)
	Acute - short-term exposure - local effects	1468 mg/m3 (worker)
	Long-term exposure - systemic effects	734 mg/m3 (worker)
	Long-term exposure - local effects	734 mg/m3 (worker)

7664-38-2 phosphoric acid

Inhalative	Long-term exposure - local effects	2,92 mg/m3 (worker)
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67-56-1 methanol

Dermal	Acute - short-term exposure - systemic effects	40 mg/kg bw/day (worker)
		ECHA database
	Long-term exposure - systemic effects	40 mg/kg bw/day (worker)
		ECHA database
Inhalative	Acute - short-term exposure - systemic effects	260 mg/m3 (worker)
		ECHA database
	Acute - short-term exposure - local effects	260 mg/m3 (worker)
		ECHA database
	Long-term exposure - systemic effects	260 mg/m3 (worker)
		ECHA database
	Long-term exposure - local effects	260 mg/m3 (worker)
		ECHA database

· PNECs**64-17-5 ethanol**

PNEC	0,72 mg/kg (oral)
	2,9 mg/kg (sediment marine water)
	3,6 mg/kg (sediment freshwater)
PNEC	580 mg/l (STP)
	0,96 mg/l (aqua, freshwater)
	2,75 mg/l (aqua, intermittent releases)
	0,79 mg/l (aqua, marine water)

108-88-3 toluene

PNEC	16,39 mg/kg (sediment marine water)
PNEC	13,61 mg/l (STP)
	0,68 mg/l (aqua, freshwater)
	0,68 mg/l (aqua, intermittent releases)
	0,68 mg/l (aqua, marine water)

141-78-6 ethyl acetate

PNEC	0,115 mg/kg (sediment marine water)
	1,15 mg/kg (sediment freshwater)
	0,148 mg/kg (soil)
PNEC	650 mg/l (STP)
	0,24 mg/l (aqua, freshwater)
	1,65 mg/l (aqua, intermittent releases)
	0,024 mg/l (aqua, marine water)

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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.

Store protective clothing separately.

Do not inhale gases / fumes / aerosols.

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.

Short term filter device: ABEK

Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

Suitable materials for safety gloves (EN 374): Chloroprene rubber, CR

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. Thickness of the gloves ≥ 0.6 mm (phosphoric acid)

Value for the permeation: Level ≥ 480 min (phosphoric acid)

Eye protection:



Tightly sealed goggles

Body protection: Acid resistant protective clothing

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:

Form: Fluid Transparent

Colour: · Odour: Characteristic Not

Odour threshold: determined.

pH-value at 20 °C:

2,5

Change in condition

Melting point/Melting range:

Boiling point/Boiling range: Undetermined.

77 °C

Flash point:

2 °C

Flammability (solid, gaseous):

Not applicable.

Ignition temperature:

425 °C

Decomposition temperature:

Not determined.

Self-igniting:

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Product is not selfigniting.

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<ul style="list-style-type: none"> · Danger of explosion: · Explosion limits: Lower: <li style="padding-left: 20px;">Upper: · Vapour pressure at 20 °C: · Density at 20 °C: · Relative density · Vapour density · Evaporation rate · Solubility in / Miscibility with water: · Partition coefficient (n-octanol/water): · Viscosity: <ul style="list-style-type: none"> Dynamic at 20 °C: Kinematic: · Solvent content: <ul style="list-style-type: none"> Organic solvents: VOC (EC) · 9.2 Other information 	<p>Product is not explosive. However, formation of explosive air/vapour mixtures are possible.</p> <p>1,2 Vol % 15,0 Vol %</p> <p>97 hPa</p> <p>0,85 g/cm³</p> <p>Not determined.</p> <p>Not determined.</p> <p>Not determined.</p> <p>Slightly soluble.</p> <p>Not determined.</p> <p>1 mPas Not determined.</p> <p>96,4 % 96,41 %</p> <p>No further relevant information available.</p>
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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 Reacts with strong oxidizing agents.
- 10.4 Conditions to avoid High temperatures.
- 10.5 Incompatible materials: Oxidizing agents.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

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:

64-17-5 ethanol

Oral LD50 > 2000 mg/kg (rat) (OESO 401)
Dermal LD50 > 2000 mg/kg (rabbit) (OESO 402)
Inhalative LC50/4h > 20 mg/l (mouse)

108-88-3 toluene

Oral LD50 5580 mg/kg (rat)
Dermal LD50 > 5000 mg/kg (rabbit)
Inhalative LC50/4h 28,1 mg/l (rat)

141-78-6 ethyl acetate

Oral LD50 4100 mg/kg (mouse)
Dermal LD50 5620 mg/kg (rat)
> 20000 mg/kg (rabbit)
Inhalative LC50/4h 30 mg/l (rat)

67-56-1 methanol

Oral LD50 > 5000 mg/kg (rat)
Dermal LD50 20000 mg/kg (rabbit)
Inhalative LC50/4h 80-130 mg/l (rat)

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- Primary irritant effect:
- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eye damage/irritation
Causes serious eye irritation.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
Repr. 2
- 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 the unborn child.
- STOT-single exposure
May cause drowsiness or dizziness.
- STOT-repeated exposure
May cause damage to the central nervous system through prolonged or repeated exposure. Route of exposure: Inhalation.
- Aspiration hazard
May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

64-17-5 ethanol

EC50 > 100 mg/l (chlorella pyrenoidosa) (OECD) >
100 mg/l (daphnia magna) (OESO 202)
LC50/48h > 100 mg/l (leuciscus idus) (OESO 203)

108-88-3 toluene

NOEC/72h 10 mg/l (Skeletonema costatum)
EC50/3h 134 mg/l (Chlorella vulgaris)
EC50/48h 3,78 mg/l (daphnia magna)
EC50/72h 12,5 mg/l (algae)
LC50/96h 5,5 mg/l (Oncorhynchus kisutch)
5,5 mg/l (fish)

141-78-6 ethyl acetate

NOEC/32d >9,65 mg/l (fish)
NOEC/21d 2,4 mg/l (daphnia magna)
EC50/48h 5600 mg/l (algae)
610 mg/l (daphnia magna)
LC50/96h 230 mg/l (fish)

67-56-1 methanol

EC50/24h > 10000 mg/l (daphnia magna)
LC50/96h > 10000 mg/l (fish)

12.2 Persistence and degradability No further relevant information available.

12.3 Bioaccumulative potential

108-88-3 toluene

BCF 90 (/)
LogPow 2,73 (/)

141-78-6 ethyl acetate

BCF 30 (leuciscus idus)

12.4 Mobility in soil

141-78-6 ethyl acetate

Koc 1,43 (/)

Other information:

141-78-6 ethyl acetate

BOD5/20d 79 (/)

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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.

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

07 01 04* other organic solvents, washing liquids and mother liquors

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

14.1 UN-Number

ADR,ADN, IMDG, IATA

UN1263

14.2 UN proper shipping name

ADR/ADN

1263 PAINT RELATED MATERIAL

IMDG

PAINT RELATED MATERIAL

IATA

Paint related material

14.3 Transport hazard class(es)

ADR,ADN, IMDG, IATA



Class 3 Flammable liquids.

Label 3

14.4 Packing group

ADR,ADN, IMDG, IATA

II

14.5 Environmental hazards:

Marine pollutant: No

14.6 Special precautions for user Warning: Flammable liquids.

Danger code (Kemler): 33

EMS Number: F-E, S-E

Stowage Category B

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable.

Transport/Additional information:

ADR/ADN

Limited quantities (LQ) 5L

Excepted quantities (EQ) Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500

Transport category ml 2

Tunnel restriction code D/E

IMDG

Limited quantities (LQ) 5L

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· Excepted quantities (EQ)

Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500

ml UN 1263 PAINT RELATED MATERIAL, 3, II

· UN "Model Regulation":

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 methanol

· 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

· National regulations:

· Other regulations, limitations and prohibitive regulations

The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation.

· 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.

· Relevant phrases

H225 Highly flammable liquid and vapour.

H290 May be corrosive to metals.

H301 Toxic if swallowed.

H304 May be fatal if swallowed and enters airways.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H336 May cause drowsiness or dizziness.

H361d Suspected of damaging the unborn child. H370 Causes damage to organs.

H373 May cause damage to the central nervous system through prolonged or repeated exposure. Route of exposure: Inhalation.

· Contact: Dhr. F. Dammers

· 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)

ICAO: International Civil Aviation Organisation

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)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

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, Hazard Category 2 Met.

Corr. 1: Corrosive to metals, Hazard Category 1

Acute Tox. 3: Acute toxicity, Hazard Category 3

Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

Repr. 2: Reproductive toxicity, Hazard Category 2

STOT SE 1: Specific target organ toxicity - Single exposure, Hazard Category 1

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2

Asp. Tox. 1: Aspiration hazard, Hazard Category 1