

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 29.02.2016

Version number 1

Revision: 29.02.2016

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

1.1 Product identifier

Trade name: **UNILUX Air Dry Surfacer Thinner Fast**

Article number: 10888

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

Activator

Thinner, Diluent

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Carolux

Kerkenbos 10 77 T

6546BB Nijmegen

Netherlands

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

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

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



GHS07

Acute Tox. 4 H332 Harmful if inhaled.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H335-H336 May cause respiratory irritation. 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:

4-methylpentan-2-one xylene

(Contd. on page 2)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 29.02.2016

Version number 1

Revision: 29.02.2016

Trade name: **UNILUX Air Dry Surfacers Thinner Fast**

(Contd. of page 1)

n-butyl acetate
ethylbenzene

Hazard statements

H225 Highly flammable liquid and vapour.
H332 Harmful if inhaled.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.
H373 May cause damage to organs through prolonged or repeated exposure.
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.
P312 Call a POISON CENTER/doctor if you feel unwell.
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: 108-10-1	4-methylpentan-2-one	25-50%
EINECS: 203-550-1	⚠ Flam. Liq. 2, H225; ⚠ Acute Tox. 4, H332; Eye Irrit. 2, H319; STOT SE 3, H335	
Reg.nr.: 01-2119473980-30		
CAS: 123-86-4	n-b utyl acetate	10-25%
EINECS: 204-658-1	⚠ Flam. Liq. 3, H226; ⚠ STOT SE 3, H336	
Reg.nr.: 01-2119485493-29		
CAS: 1330-20-7	xylene	10-25%
EINECS: 215-535-7	⚠ Flam. Liq. 3, H226; ⚠ STOT RE 2, H373; Asp. Tox. 1, H304; ⚠ Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	
Reg.nr.: 01-2119488216-32		
CAS: 90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	10-25%
EINECS: 202-013-9	⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319	
CAS: 100-41-4	ethylbenzene	2,5-10%
EINECS: 202-849-4	⚠ Flam. Liq. 2, H225; ⚠ STOT RE 2, H373; Asp. Tox. 1, H304; ⚠ Acute Tox. 4, H332; Aquatic Chronic 3, H412	
Reg.nr.: 01-2119489370-35		

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. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. In case of unconsciousness place patient stably in side position for transportation.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. Remove contactlenses.

(Contd. on page 3)

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

Printing date 29.02.2016

Version number 1

Revision: 29.02.2016

Trade name: **UNILUX Air Dry Surfacers Thinner Fast**

(Contd. of page 2)

- After swallowing:

- Do not induce vomiting; call for medical help immediately.

- Rinse mouth.

- 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 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:

108-10-1 4-methylpentan-2-one

IOELV Short-term value: 208 mg/m³, 50 ppm

Long-term value: 83 mg/m³, 20 ppm

(Contd. on page 4)

EU

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 29.02.2016

Version number 1

Revision: 29.02.2016

Trade name: **UNILUX Air Dry Surfacers Thinner Fast**

(Contd. of page 3)

1330-20-7 xylene

IOELV Short-term value: 442 mg/m³, 100 ppm
 Long-term value: 221 mg/m³, 50 ppm
 Skin

100-41-4 ethylbenzene

IOELV Short-term value: 884 mg/m³, 200 ppm
 Long-term value: 442 mg/m³, 100 ppm
 Skin

DNELs**108-10-1 4-methylpentan-2-one**

Dermal	Long-term exposure - systemic effects	11,8 mg/kg bw/day (worker)
Inhalative	Acute - short-term exposure - systemic effects	208 mg/m ³ (worker)
	Acute - short-term exposure - local effects	208 mg/m ³ (worker)
	Long-term exposure - systemic effects	83 mg/m ³ (worker)
	Long-term exposure - local effects	83 mg/m ³ (worker)

123-86-4 n-butyl acetate

Inhalative	Acute - short-term exposure - systemic effects	960 mg/m ³ (worker)
	Acute - short-term exposure - local effects	960 mg/m ³ (worker)
	Long-term exposure - systemic effects	480 mg/m ³ (worker)
	Long-term exposure - local effects	480 mg/m ³ (worker)

1330-20-7 xylene

Dermal	Long-term exposure - systemic effects	180 mg/kg bw/day (worker)
Inhalative	Acute - short-term exposure - systemic effects	289 mg/m ³ (worker)
	Acute - short-term exposure - local effects	289 mg/m ³ (worker)
	Long-term exposure - systemic effects	77 mg/m ³ (worker)

100-41-4 ethylbenzene

Dermal	Acute - short-term exposure - local effects	293 mg/kg bw/day (worker)
	Long-term exposure - systemic effects	180 mg/kg bw/day (worker)
Inhalative	Long-term exposure - systemic effects	77 mg/m ³ (worker)

PNECs**108-10-1 4-methylpentan-2-one**

PNEC 0,83 mg/kg (sediment marine water)
 8,27 mg/kg (sediment freshwater)
 PNEC 27,5 mg/l (STP)
 0,6 mg/l (aqua, freshwater)
 1,5 mg/l (aqua, intermittent releases)
 0,06 mg/l (aqua, marine water)

123-86-4 n-butyl acetate

PNEC 0,981 mg/kg (sediment freshwater)
 PNEC 35,6 mg/l (STP)
 0,18 mg/l (aqua, freshwater)
 0,36 mg/l (aqua, intermittent releases)
 0,018 mg/l (aqua, marine water)
 0,0981 mg/l (sediment marine water)

1330-20-7 xylene

PNEC 6,58 mg/l (STP)
 0,237 mg/l (aqua, freshwater)
 0,327 mg/l (aqua, intermittent releases)
 0,327 mg/l (aqua, marine water)

100-41-4 ethylbenzene

PNEC 13,7 mg/kg (sediment freshwater)
 2,68 mg/kg (soil)
 PNEC 9,6 mg/l (STP)
 0,1 mg/l (aqua, freshwater)

(Contd. on page 5)

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

Printing date 29.02.2016

Version number 1

Revision: 29.02.2016

Trade name: **UNILUX Air Dry Surfacers Thinner Fast**

(Contd. of page 4)

0,1 mg/l (aqua, intermittent releases)

0,01 mg/l (aqua, marine water)

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: Filter A.

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): Polyethyl

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

Thickness of the gloves \geq 0.06 mm (methyl isobutyl ketone) Value for the permeation: Level \geq 480 min (methyl isobutyl ketone)

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

Body protection: Solvent resistant protective clothing

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:

Form:	Fluid
Colour:	Light yellow
Odour:	Characteristic Not determined.
Odour threshold:	

pH-value: Not determined.

Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	114 °C

Flash point: 16 °C

Flammability (solid, gaseous): Not applicable.

Ignition temperature: 370 °C

(Contd. on page 6)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 29.02.2016

Version number 1

Revision: 29.02.2016

Trade name: **UNILUX Air Dry Surfacers Thinner Fast**

(Contd. of page 5)

Decomposition temperature:	Not determined.
Self-igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
Explosion limits: Lower:	1,1 Vol %
Upper:	9,0 Vol %
Vapour pressure at 20 °C:	10,7 hPa
Density at 20 °C:	0,85 g/cm ³
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with water:	Slightly soluble.
Partition coefficient (n-octanol/water):	Not determined.
Viscosity:	
Dynamic:	Not determined. 12
Kinematic at 20 °C:	s (DIN 53211/4)
Solvent content:	
Organic solvents:	88,0 %
VOC (EC)	87,96 %
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 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
Harmful if inhaled.

LD/LC50 values relevant for classification:

108-10-1 4-methylpentan-2-one

Oral LD50 2080 mg/kg (rat)
Dermal LD50 >2000 mg/kg (rabbit)
Inhalative LC50/4h 8,2-16,4 mg/l (rat)

123-86-4 n-butyl acetate

Oral LD50 10760 mg/kg (rat) (OECD 423)
Dermal LD50 >14112 mg/kg (rabbit) (OECD 402)
Inhalative LC50/4h 23,4 mg/l (rat) (OECD 403 in vivo, aerosol)

1330-20-7 xylene

Oral LD50 3523 mg/kg (rat)
Dermal LD50 12126 mg/kg bw (rabbit)
Inhalative LC50/4h 27124 mg/m³ (rat)

(Contd. on page 7)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 29.02.2016

Version number 1

Revision: 29.02.2016

Trade name: **UNILUX Air Dry Surfacers Thinner Fast**

(Contd. of page 6)

100-41-4 ethylbenzene

Oral LD50 3500 mg/kg (rat)

Dermal LD50 17800 mg/kg (rabbit)

Primary irritant effect:

Skin corrosion/irritation

Causes skin irritation.

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)

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

May cause respiratory irritation. May cause drowsiness or dizziness.

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

May be fatal if swallowed and enters airways.

SECTION 12: Ecological information**12.1 Toxicity**

Aquatic toxicity:

108-10-1 4-methylpentan-2-one

EC50/96h 400 mg/l (algae)

EC50/48h >200 mg/l (daphnia magna)

LC50/96h >179 mg/l (fish)

123-86-4 n-butyl acetate

EC50/48h 44 mg/l (daphnia magna)

EC50/72h 647,7 mg/l (desmodesmus supspicatus)

IC50 356 mg/l (tetrahymena pyriformis) (40 h)

NOAEL/72h 200 mg/l (desmodesmus supspicatus)

LC50/96h 18 mg/l (pimphales promelas) (OECD 203)

1330-20-7 xylene

IC50/72h 2,2 mg/l (algae)

EC50/48h 1 mg/l (daphnia magna)

LC50/96h 2,6 mg/l (oncorhynchus mykiss)

100-41-4 ethylbenzene

EC50/24h >100 mg/l (daphnia magna)

12.2 Persistence and degradability No further relevant information available.

Degree of elimination:

123-86-4 n-butyl acetate

OECD 301D 83 % (I) (28 d)

12.3 Bioaccumulative potential**1330-20-7 xylene**

LogPow 3,15 (I)

12.4 Mobility in soil No further relevant information available.

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.

(Contd. on page 8)

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

Printing date 29.02.2016

Version number 1

Revision: 29.02.2016

Trade name: **UNILUX Air Dry Surfacer Thinner Fast**

(Contd. of page 7)

- 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: 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:

Not applicable.

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

ml 2

Transport category

Tunnel restriction code

D/E

IMDG

Limited quantities (LQ)

5L Code:

Excepted quantities (EQ)

E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

UN "Model Regulation":

UN 1263 PAINT RELATED MATERIAL, 3, II

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.

(Contd. on page 9)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 29.02.2016

Version number 1

Revision: 29.02.2016

Trade name: **UNILUX Air Dry Surfacers Thinner Fast**

(Contd. of page 8)

- 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.
- H226 Flammable liquid and vapour.
- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H412 Harmful to aquatic life with long lasting effects.

Contact: Dhr. F. Dammers

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)
- 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
- Flam. Liq. 3: Flammable liquids, Hazard Category 3
- Acute Tox. 4: Acute toxicity, Hazard Category 4
- Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
- Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
- 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
- Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

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