

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 15.02.2016

Version number 1

Revision: 15.02.2016

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

1.1 Product identifier

Trade name: **UNILUX HS Air Dry Surfacer Grey 3:1:1**

Article number: 40888

1.2 Relevant identified uses of the substance or mixture and uses advised against
No further relevant information available.

Application of the substance / the mixture Paint

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Carolux

Kerkenbos 1077 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. 3 H226 Flammable liquid and vapour.

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

Signal word Warning

Hazard statements

H226 Flammable liquid and vapour.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P260 Do not breathe mist/vapours/spray.

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

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P403+P235 Store in a well-ventilated place. Keep cool.

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

Additional information:

EUH066 Repeated exposure may cause skin dryness or cracking.

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.

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Dangerous components %(m/m):

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: 108-10-1	4-methylpentan-2-one	2,5-10%
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: 64742-95-6	Hydrocarbons, C9, aromatics	2,5-10%
EC number: 918-668-5	⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304; Aquatic Chronic 2, H411; ⚠ STOT SE 3, H335-	
Reg.nr.: 01-2119455851-35	H336	
CAS: 141-78-6	ethyl acetate	2,5-10%
EINECS: 205-500-4	⚠ Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	
Reg.nr.: 01-2119475103-46		

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.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- 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.
- 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:

- 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.
- 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.

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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 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

DNELs

123-86-4 n-butyl acetate

Inhalative Acute - short-term exposure - systemic effects 960 mg/m³ (worker)

Acute - short-term exposure - local effects 960 mg/m³ (worker)

Long-term exposure - systemic effects 480 mg/m³ (worker) Long-

term exposure - local effects 480 mg/m³ (worker)

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/m³ (worker)

Acute - short-term exposure - local effects 208 mg/m³ (worker)

Long-term exposure - systemic effects 83 mg/m³ (worker)

Long-term exposure - local effects 83 mg/m³ (worker)

64742-95-6 Hydrocarbons, C9, aromatics

Dermal Long-term exposure - systemic effects 25 mg/kg bw/day (worker)

Inhalative Long-term exposure - systemic effects 150 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)

PNECs

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)

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

PNEC 0,83 mg/kg (sediment marine water)

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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)

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)

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

8.2 Exposure controls

Personal protective equipment:

General protective and hygienic measures:

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

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

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.

Butyl rubber, BR

Penetration time of glove material

Thickness of the gloves ≥ 0.3 mm (butylacetate) Value for the permeation: Level ≥ 60 min (butylacetate)

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: Grey
 Odour: Characteristic Not determined.

Odour threshold:

pH-value: Not determined.

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·	Change in condition	
	Melting point/Melting range:	Undetermined.
	Boiling point/Boiling range:	124 °C
·	Flash point:	26 °C
·	Flammability (solid, gaseous):	Not applicable.
·	Ignition temperature:	370 °C
·	Decomposition temperature:	Not determined.
·	Self-igniting:	Product is not selfigniting.
·	Danger of explosion:	Explosive with or without contact with air.
·	Explosion limits:	
	Lower:	1,2 Vol %
	Upper:	7,5 Vol %
·	Vapour pressure at 20 °C:	10,7 hPa
·	Density at 20 °C:	1,54 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 at 20 °C:	9500 mPas
	Kinematic:	Not determined.
·	Solvent content:	
	Organic solvents:	28,3 %
	VOC (EC)	28,34 %
·	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 Based on available data, the classification criteria are not met.
 - LD/LC50 values relevant for classification:

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)

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

Oral LD50 2080 mg/kg (rat)
 Dermal LD50 >2000 mg/kg (rabbit)

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Inhalative LC50/4h 8,2-16,4 mg/l (rat)

64742-95-6 Hydrocarbons, C9, aromatics

Oral LD50 3592 mg/kg (rat)

Dermal LD50 >3160 ml/kg (rabbit)

Inhalative LC50/4h >6193 ppm (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)

Primary irritant effect:

Skin corrosion/irritation Based on available data, the classification criteria are not met.

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

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 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 toxicity:

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)

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)

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)

12.2 Persistence and degradability No further relevant information available.

Degree of elimination:

123-86-4 n-butyl acetate

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

12.3 Bioaccumulative potential

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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- Ecotoxicological effects:
- Remark: Harmful to fish
- 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. 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
- 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, ADN, IMDG Void
- IATA UN1263
- 14.2 UN proper shipping name
- ADR,ADN, ADN, IMDG Void
- IATA Paint
- 14.3 Transport hazard class(es)
- ADR,ADN, ADN, IMDG Void
- Class Void
- IATA
- 
- Class 3 Flammable liquids.
- Label 3
- 14.4 Packing group
- ADR,ADN, IMDG Void
- IATA III
- 14.5 Environmental hazards: Not applicable.
- 14.6 Special precautions for user Not applicable.
- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable.
- UN "Model Regulation": Void

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

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- 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.
 H304 May be fatal if swallowed and enters airways.
 H319 Causes serious eye irritation.
 H332 Harmful if inhaled.
 H335 May cause respiratory irritation.
 H336 May cause drowsiness or dizziness.
 H411 Toxic 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
 Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
 STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
 Asp. Tox. 1: Aspiration hazard, Hazard Category 1
 Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2
 Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

- * Data compared to the previous version altered.

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