

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 22.10.2014

Version number 1

Revision: 22.10.2014

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

· 1.1 Product identifier

· Trade name: **HS air dry Thinner fast 1027**

# UNILUX

· Article number: 1027

· 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 Lacquer solvent/ Varnish thinner

· 1.3 Details of the supplier of the safety data sheet

· Manufacturer/Supplier:

Carolux  
Kerkenbos 10 77 T  
6546 BB Nijmegen  
The Netherlands  
T +31 (0)24 3605601  
11 E info@carolux.nl  
W www.carolux.nl

# CAROLUX

CAROLUX, Oeverwegweg 2, 6525 LZ Nijmegen, The Netherlands  
Tel. 0031(0)24-3605601 Fax: 0031(0)24-3885152 info@carolux.nl www.carolux.nl

· Further information obtainable from: info@carolux.nl

· 1.4 Emergency telephone number: +31 (0)24 3605601

### 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.

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: xylene  
4-methylpentan-2-one  
n-butyl acetate

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- heptan-2-one
- 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.
    - H412 Harmful to aquatic life with long lasting effects.
  - Precautionary statements
    - P280 Wear protective gloves/protective clothing/eye protection/face protection.
    - P260 Do not breathe mist/vapours/spray.
    - P301+P310 IF SWALLOWED: Immediately call a doctor.
    - P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
    - P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
    - P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
  - 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:

CAS: 123-86-4	n-butyl acetate	25-50%
EINECS: 204-658-1	⚠ Flam. Liq. 3, H226; ⚠ STOT SE 3, H336	
Reg.nr.: 01-2119485493-29		
CAS: 1330-20-7	xylene	25-50%
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		
01-2119486136-34		
01-2119555267-33		
CAS: 108-10-1	4-methylpentan-2-one	10-25%
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;	
Reg.nr.: 01-2119455851-35	⚠ STOT SE 3, H335-H336	
CAS: 108-65-6	2-methoxy-1-methylethyl acetate	2,5-10%
EINECS: 203-603-9	⚠ Flam. Liq. 3, H226	
Reg.nr.: 01-2119475791-29		
CAS: 110-43-0	heptan-2-one	2,5-10%
EINECS: 203-767-1	⚠ Flam. Liq. 3, H226; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332; STOT SE 3, H336	

- Regulation (EC) No 648/2004 on detergents / Labelling for contents

aromatic hydrocarbons

ε 30%

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### 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.
- After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- 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: CO<sub>2</sub> 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 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
  - 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.
  - 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.
  - 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.
- 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.

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- 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:

#### 1330-20-7 xylene

IOELV Short-term value: 442 mg/m<sup>3</sup>, 100 ppm  
 Long-term value: 221 mg/m<sup>3</sup>, 50 ppm  
 Skin

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

IOELV Short-term value: 208 mg/m<sup>3</sup>, 50 ppm  
 Long-term value: 83 mg/m<sup>3</sup>, 20 ppm

#### 108-65-6 2-methoxy-1-methylethyl acetate

IOELV Short-term value: 550 mg/m<sup>3</sup>, 100 ppm  
 Long-term value: 275 mg/m<sup>3</sup>, 50 ppm  
 Skin

#### 110-43-0 heptan-2-one

IOELV Short-term value: 475 mg/m<sup>3</sup>, 100 ppm  
 Long-term value: 238 mg/m<sup>3</sup>, 50 ppm  
 Skin

- DNELs

#### 123-86-4 n-butyl acetate

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

#### 1330-20-7 xylene

Dermal Long-term exposure - systemic effects	180 mg/kg bw/day (worker)
Inhalative Acute - short-term exposure - local effects	289 mg/m <sup>3</sup> (worker)
Acute - short-term exposure - systemic effects	289 mg/m <sup>3</sup> (worker)
Long-term exposure - systemic effects	77 mg/m <sup>3</sup> (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 - local effects	208 mg/m <sup>3</sup> (worker)
Acute - short-term exposure - systemic effects	208 mg/m <sup>3</sup> (worker)
Long-term exposure - local effects	83 mg/m <sup>3</sup> (worker)
Long-term exposure - systemic effects	83 mg/m <sup>3</sup> (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/m <sup>3</sup> (wki)

- PNECs

#### 123-86-4 n-butyl acetate

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)

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0,0981 mg/l (sediment marine water)

0,981 mg/kg (sediment freshwater)

**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)

12,46 mg/kg (sediment marine water)

12,46 mg/kg (sediment freshwater)

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

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)

0,83 mg/kg (sediment marine water)

8,27 mg/kg (sediment freshwater)

- 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.

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

Butyl rubber, BR

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  $\epsilon$  0,3mm (butylacetate)

Value for the permeation: Level  $\epsilon$  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

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### SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties
- General Information
- Appearance:
  - Form: Fluid
  - Colour: · Odour: Clear
- Odour threshold: Characteristic Not determined.
- pH-value: Not determined.
- Change in condition
  - Melting point/Melting range: Undetermined.
  - Boiling point/Boiling range: 116 °C
- Flash point: 14 °C
- Flammability (solid, gaseous):
- Ignition temperature: Not applicable.  
370 °C
- 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: Upper:
- Vapour pressure at 20 °C: 1,1 Vol %  
9,0 Vol %
- Density at 20 °C: · Relative density 10,7 hPa
- Vapour density
- Evaporation rate 0,86 g/cm<sup>3</sup>
- Solubility in / Miscibility with water: Not determined.  
Not determined.  
Not determined.
- Partition coefficient (n-octanol/water): Not determined.
- Viscosity: Slightly soluble.
  - Dynamic at 20 °C: 1 mPas
  - Kinematic: Not determined.
- Solvent content:
  - Organic solvents: 100,0 %
  - VOC (EC) 99,97 %
- 9.2 Other information No further relevant information available.

### SECTION 10: Stability and reactivity

- 10.1 Reactivity
- 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 oxidising agents.
- 10.4 Conditions to avoid High temperatures.
- 10.5 Incompatible materials: Oxidizing agents.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

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### SECTION 11: Toxicological information

- 11.1 Information on toxicological effects
- Acute toxicity:
- 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)

#### 1330-20-7 xylene

Oral LD50 2000-5000 mg/kg (/)  
 Inhalative LC50 10-20 mg/l (/)

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

Oral LD50 >2000 mg/kg (rat)  
 Dermal LD50 >5000 mg/kg (rabbit)  
 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)

- Primary irritant effect:
- on the skin: Irritant to skin and mucous membranes.
- on the eye: Irritating effect.
- Sensitisation: No sensitising effects known.
- Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Harmful  
 Irritant

### 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)  
 LC50/96h 18 mg/l (pimphales promelas) (OECD 203)  
 NOAEL/72h 200 mg/l (desmodesmus supspicatus)

#### 1330-20-7 xylene

EC50/48h 7,4 mg/l (daphnia magna)  
 IC50 1-10 mg/l (TISBE Marine copepod)  
 1-10 mg/l (algae)  
 > 100 mg/l (bacteria)  
 1-10 mg/l (fish)  
 NOAEL 0,1-1 mg/l (TISBE Marine copepod)  
 1-10 mg/l (fish)

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

EC50/48h >100 mg/l (daphnia magna)  
 EC50/96h 400 mg/l (algae)

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- LC50/96h >100 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 No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- Ecotoxicological effects:
- Remark: Harmful to 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.
  - 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.
- Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.

**SECTION 14: Transport information**

- 14.1 UN-Number
- ADR, IMDG, IATA UN1263
- 14.2 UN proper shipping name
- ADR 1263 PAINT RELATED MATERIAL
- IMDG, IATA PAINT RELATED MATERIAL
- 14.3 Transport hazard class(es)
- ADR, IMDG, IATA



- Class 3 Flammable liquids.
- Label 3
- 14.4 Packing group
- ADR, 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
- 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.

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· Transport/Additional information:

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· ADR

- Limited quantities (LQ)
- Excepted quantities (EQ)

5L

Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

· Transport category

2

· Tunnel restriction code

D/E

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· IMDG

- Limited quantities (LQ)
- Excepted quantities (EQ)

5L

Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

· UN "Model Regulation":

UN1263, PAINT RELATED MATERIAL, 3, II

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### SECTION 15: Regulatory information

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

· 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.

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### 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.

H411 Toxic to aquatic life with long lasting effects.

· Contact: Mr. 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

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

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

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Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2  
Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

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