

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

Printing date 04.02.2022

Version number 16 (replaces version 15)

Revision: 04.02.2022

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

- 1.1 Product identifier
- Trade name: Epifanes PP Varnish Extra Comp. A.
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
- Sector of Use  
SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)  
SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
- Product category PC9a Coatings and paints, thinners, paint removers
- Process category  
PROC7 Industrial spraying  
PROC11 Non industrial spraying  
PROC10 Roller application or brushing
- Environmental release category  
ERC5 Use at industrial site leading to inclusion into/onto article  
ERC8c Widespread use leading to inclusion into/onto article (indoor)  
ERC8f Widespread use leading to inclusion into/onto article (outdoor)
- Article category AC11 Wood articles
- Application of the substance / the mixture  
See our technical datasheet for application of this product.  
Base component of a high build two-component clear varnish
- 1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier:  
W.Heeren & Zoon bv.  
P.O. box 166  
1430 AD Aalsmeer  
Netherlands  
tel.+31-(0)297-360366  
email: r&d@epifanes.nl
- Further information obtainable from: Research & Development.
- 1.4 Emergency telephone number:  
W.Heeren & Zoon bv. tel: +31 297 360678, E-mail: rend@epifanes.nl  
Office hours: weekdays from 08:00 to 17:00.  
The National Poisons Information Service; dial 111  
Solely intended to inform professionals in acute poisoning!

**SECTION 2: Hazards identification**

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



flame

Flam. Liq. 3                      H226 Flammable liquid and vapour.



health hazard

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

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Skin Irrit. 2            H315 Causes skin irritation.  
Eye Irrit. 2            H319 Causes serious eye irritation.  
Skin Sens. 1            H317 May cause an allergic skin reaction.

Aquatic Chronic 3    H412 Harmful to aquatic life with long lasting effects.  
Additional information: For professional use only.

- 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 Warning
- Hazard-determining components of labelling:  
Xylene  
Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate  
Mixture of alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-hydroxypoly(oxyethylene) and alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)
- Hazard statements  
H226 Flammable liquid and vapour.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction.  
H373 May cause damage to the hearing organs through prolonged or repeated exposure.  
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.  
P260            Do not breathe dust/fume/gas/mist/vapours/spray.  
P271            Use only outdoors or in a well-ventilated area.  
P280            Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.  
P301+P310      IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
P501            Dispose of contents/container in accordance with local/regional/national/international regulations.

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- 2.3 Other hazards
- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

- 3.2 Mixtures
- Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:

|   |   |           |
|---|---|-----------|
| CAS: 1330-20-7<br>EINECS: 215-535-7<br>Reg.nr.: 01-2119488216-32                              | <b>Xylene</b><br>Flam. Liq. 3, H226<br>STOT RE 2, H373; Asp. Tox. 1, H304<br>Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335 | 10-25%    |
| CAS: 108-65-6<br>EINECS: 203-603-9<br>Index number: 607-195-00-7<br>Reg.nr.: 01-2119475791-29 | <b>2-methoxy-1-methylethyl acetate</b><br>Flam. Liq. 3, H226<br>STOT SE 3, H336   | 10-25%    |
| CAS: 78-93-3<br>EINECS: 201-159-0<br>Index number: 606-002-00-3<br>Reg.nr.: 01-2119457290-43  | <b>butanone</b><br>Flam. Liq. 2, H225<br>Eye Irrit. 2, H319; STOT SE 3, H336<br>EUH066  | ≥2.5-<10% |
| CAS: 108-10-1<br>EINECS: 203-550-1<br>Index number: 606-004-00-4<br>Reg.nr.: 01-2119473980-30 | <b>4-methylpentan-2-one</b><br>Flam. Liq. 2, H225<br>Acute Tox. 4, H332; Eye Irrit. 2, H319; STOT SE 3, H335<br>EUH066  | ≥2.5-<10% |
| CAS: 100-41-4<br>EINECS: 202-849-4<br>Index number: 601-023-00-4<br>Reg.nr.: 01-2119489370-35 | <b>Ethylbenzene</b><br>Flam. Liq. 2, H225<br>STOT RE 2, H373; Asp. Tox. 1, H304<br>Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335               | ≥2.5-<10% |

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|   |   |             |
|---|---|-------------|
| CAS: 1065336-91-5<br>EC number: 915-687-0<br>Reg.nr.: 01-2119491304-40-0000 | Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate<br><br>⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410<br>⚠ Skin Sens. 1A, H317 | ≥0.25-≤0.5% |
| CAS: 149-57-5<br>EINECS: 205-743-6<br>Index number: 607-230-00-6            | 2-ethylhexanoic acid<br>⚠ Repr. 2, H361d  | <0.3%       |
| CAS: 3648-18-8<br>EINECS: 222-883-3<br>Index number: 050-031-00-9           | dioctyltin dilaurate<br>⚠ Repr. 2, H361; STOT SE 2, H371; STOT RE 2, H373<br>Aquatic Chronic 3, H412  | <0.3%       |

· SVHC

3648-18-8 | dioctyltin dilaurate

· 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
- General information: Immediately remove any clothing soiled by the product.
- 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.  
Immediately rinse with water.
- After eye contact:  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- 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:  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- 5.2 Special hazards arising from the substance or mixture  
During heating or in case of fire poisonous gases are produced.

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No further relevant information available.

- 5.3 Advice for firefighters
- Protective equipment: Mouth 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:  
Prevent seepage into sewage system, workpits and cellars.  
Inform respective authorities in case of seepage into water course or sewage system.  
Dilute with plenty of water.  
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: No special requirements.  
Information about storage in one common storage facility: Not required.  
Further information about storage conditions: Keep container tightly sealed.
- 7.3 Specific end use(s) No further relevant information available.

**SECTION 8: Exposure controls/personal protection**

- 8.1 Control parameters

- Ingredients with limit values that require monitoring at the workplace:

1330-20-7 Xylene

|     |  |
|-----|--|
| WEL | Short-term value: 441 mg/m <sup>3</sup> , 100 ppm<br>Long-term value: 220 mg/m <sup>3</sup> , 50 ppm<br>Sk; BMGV |
|-----|--|

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|  |   |
|--|---|
| 108-65-6 2-methoxy-1-methylethyl acetate |   |
| WEL                                      | Short-term value: 548 mg/m <sup>3</sup> , 100 ppm<br>Long-term value: 274 mg/m <sup>3</sup> , 50 ppm<br>Sk        |
| 78-93-3 butanone                         |   |
| WEL                                      | Short-term value: 899 mg/m <sup>3</sup> , 300 ppm<br>Long-term value: 600 mg/m <sup>3</sup> , 200 ppm<br>Sk, BMGV |
| 108-10-1 4-methylpentan-2-one            |   |
| WEL                                      | Short-term value: 416 mg/m <sup>3</sup> , 100 ppm<br>Long-term value: 208 mg/m <sup>3</sup> , 50 ppm<br>Sk, BMGV  |
| 100-41-4 Ethylbenzene                    |   |
| WEL                                      | Short-term value: 552 mg/m <sup>3</sup> , 125 ppm<br>Long-term value: 441 mg/m <sup>3</sup> , 100 ppm<br>Sk       |
| 1330-20-7 Xylene                         |   |
| WEL                                      | Short-term value: 441 mg/m <sup>3</sup> , 100 ppm<br>Long-term value: 220 mg/m <sup>3</sup> , 50 ppm<br>Sk; BMGV  |
| 108-65-6 2-methoxy-1-methylethyl acetate |   |
| WEL                                      | Short-term value: 548 mg/m <sup>3</sup> , 100 ppm<br>Long-term value: 274 mg/m <sup>3</sup> , 50 ppm<br>Sk        |
| 78-93-3 butanone                         |   |
| WEL                                      | Short-term value: 899 mg/m <sup>3</sup> , 300 ppm<br>Long-term value: 600 mg/m <sup>3</sup> , 200 ppm<br>Sk, BMGV |
| 108-10-1 4-methylpentan-2-one            |   |
| WEL                                      | Short-term value: 416 mg/m <sup>3</sup> , 100 ppm<br>Long-term value: 208 mg/m <sup>3</sup> , 50 ppm<br>Sk, BMGV  |
| 100-41-4 Ethylbenzene                    |   |
| WEL                                      | Short-term value: 552 mg/m <sup>3</sup> , 125 ppm<br>Long-term value: 441 mg/m <sup>3</sup> , 100 ppm<br>Sk       |

· Regulatory information WEL: EH40/2020

· DNEL (Derived No Effect Level) voor professionals

|                  |                               |   |
|------------------|-------------------------------|---|
| 1330-20-7 Xylene |                               |   |
| Oral             | Long-term - systemic effects. | 1.6 mg/kg bw/day (General population)       |
| Inhalative       | Long-term - local effects.    | 77 mg/m <sup>3</sup> (Employees)            |
|                  | Acute - systemic effects.     | 174 mg/m <sup>3</sup> (General population)  |
|                  | Long-term - systemic effects. | 14.8 mg/m <sup>3</sup> (General population) |

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|   |                                |  |
|---|--------------------------------|--|
| 108-65-6 2-methoxy-1-methylethyl acetate              |                                |  |
| Dermal  | Long-term systemic effects.    | 796 mg//kg/day (Employees)                 |
| Inhalative  | Short term - local effects.    | 550 mg/m <sup>3</sup> (Employees)          |
|   | Long-term - systemic effects.  | 275 mg/m <sup>3</sup> (Employees)          |
| 78-93-3 butanone                                      |                                |  |
| Oral  | Long-term - systemic effects.  | 31 mg/kg/day (General population)          |
| Dermal  | Long-term - systemic effects.  | 1,161 mg/kg/day (Industry)                 |
|   | Long-term systemic effects.    | 412 mg//kg/day (General population)        |
| Inhalative  | Long-term - systemic effects.  | 106 mg/m <sup>3</sup> (General population) |
|   | Long-term - systemic effects.  | 600 mg/m <sup>3</sup> (Industry)           |
| 108-10-1 4-methylpentan-2-one                         |                                |  |
| Dermal  | Long-term - systemic effects.  | 11.8 mg/kg/day (Industry)                  |
| Inhalative  | Short-term systemic effects.   | 208 mg/m <sup>3</sup> (Industry)           |
|   | Short term - local effects.    | 208 mg/m <sup>3</sup> (Industry)           |
|   | Long-term - systemic effects.  | 83 mg/m <sup>3</sup> (Industry)            |
| 100-41-4 Ethylbenzene                                 |                                |  |
| Dermal  | Long-term - systemic effects.  | 180 mg/kg/day (Employees)                  |
| Inhalative  | Long-term - systemic effects.  | 77 mg/m <sup>3</sup> (Employees)           |
|   | Short-term systemic effects.   | 293 mg/m <sup>3</sup> (Employees)          |
| 149-57-5 2-ethylhexanoic acid                         |                                |  |
| Dermal  | Long-term - systemic effects.  | 2 mg/kg/day (Employees)                    |
| Inhalative  | Long-term - systemic effects.  | 14 mg/m <sup>3</sup> (Employees)           |
| 3648-18-8 dioctyltin dilaurate                        |                                |  |
| Inhalative  | Long-term - systemic effects.  | 0.004 mg/m <sup>3</sup> (Employees)        |
| · DNEL (Derived No Effect Level) for general audience |                                |  |
| 1330-20-7 Xylene                                      |                                |  |
| Oral  | Acute - systemic effects       | 289 mg/kg (Employees)                      |
| Dermal  | Long-term - systemic effects.  | 180 mg/kg bw/day (Employees)               |
| Inhalative  | Long-term - systemic effects.  | 77 mg/m <sup>3</sup> (Employees)           |
|   | Short-term - systemic effects. | 289 mg/kg (Employees)                      |
|   | Short-term - local effects.    | 174 mg/m <sup>3</sup> (General population) |
|   | Long term - systemic effects.  | 108 mg/kg bw/day (General population)      |
| 108-65-6 2-methoxy-1-methylethyl acetate              |                                |  |
| Oral  | Long-term systemic effects.    | 36 mg/kg bw/day (General population)       |
| Dermal  | Long-term - systemic effects.  | 320 mg/kg bw/day (General population)      |
| Inhalative  | Long-term - systemic effects.  | 33 mg/m <sup>3</sup> (General population)  |

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| 108-10-1 4-methylpentan-2-one                      |                                |  |
|--|--------------------------------|--|
| Oral   | Long-term systemic effects.    | 4.2 mg/kg bw/day (General population)        |
| Dermal   | Long-term - systemic effects.  | 4.2 mg/kg bw/day (General population)        |
| Inhalative   | Long-term - systemic effects.  | 14.7 mg/m <sup>3</sup> (General population)  |
|  | Short-term - systemic effects. | 155.2 mg/kg (General population)             |
|  | Short-term - local effects.    | 155.2 mg/m <sup>3</sup> (General population) |
| 100-41-4 Ethylbenzene                              |                                |  |
| Oral   | Long-term systemic effects.    | 1.6 mg/kg bw/day (General population)        |
| Inhalative   | Long-term - systemic effects.  | 15 mg/m <sup>3</sup> (General population)    |
| 149-57-5 2-ethylhexanoic acid                      |                                |  |
| Oral   | Long-term systemic effects.    | 1 mg/kg bw/day (General population)          |
| Dermal   | Long-term - systemic effects.  | 1 mg/kg bw/day (General population)          |
| Inhalative   | Long-term - systemic effects.  | 3.5 mg/m <sup>3</sup> (General population)   |
| 3648-18-8 dioctyltin dilaurate                     |                                |  |
| Oral   | Long-term systemic effects.    | 0.001 mg/kg bw/day (General population)      |
| Inhalative   | Long-term - systemic effects.  | 0.001 mg/m <sup>3</sup> (General population) |
| PNECs  |                                |  |
| 1330-20-7 Xylene                                   |                                |  |
| Sewage treatment plant                             |                                | 6.58 mg/l (Sewage treatment plant)           |
| Aquatic compartment.                               |                                | 0.327 mg/l (Freshwater)                      |
| Aquatic compartment.                               |                                | 0.327 mg/l (Seawater)                        |
| Aquatic compartment - water, intermittent releases |                                | 0.327 mg/L (Freshwater)                      |
| Soil   |                                | 12.46 mg/kg (Seawater)                       |
|  |                                | 12.46 mg/kg (Freshwater)                     |
| Soil   |                                | 2.31 mg/kg (soil)                            |
| 108-65-6 2-methoxy-1-methylethyl acetate           |                                |  |
| Sewage treatment plant                             |                                | 100 mg/l (Sewage treatment plant)            |
| Aquatic compartment.                               |                                | 0.635 mg/l (Freshwater)                      |
| Aquatic compartment.                               |                                | 0.0635 mg/l (Seawater)                       |
| Soil   |                                | 3.29 mg/kg (Freshwater)                      |
| Intermittent                                       |                                | 6.35 mg/l (Intermittent)                     |
| Soil   |                                | 0.29 mg/kg (soil)                            |
| Sediment   |                                | 0.329 mg/kg (Seawater)                       |
| 78-93-3 butanone                                   |                                |  |
| Aquatic compartment.                               |                                | 55.8 mg/l (Freshwater)                       |

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|  |  |
|--|--|
| Aquatic compartment.<br>STP                        | 55.8 mg/l (Seawater)<br>709 mg/l (Segmentation, Targeting and Positioning) |
| Soil   | 284.7 mg/kg (Sediment)   |
| Intermittent                                       | 55.8 mg/l (Intermittent)   |
| Soil   | 22.5 mg/kg (soil)  |
| <b>108-10-1 4-methylpentan-2-one</b>               |  |
| Aquatic compartment.                               | 0.6 mg/l (Freshwater)  |
| Aquatic compartment.                               | 0.06 mg/l (Seawater)   |
| Soil   | 8.27 mg/kg (Freshwater)  |
| Intermittent                                       | 1.5 mg/l (Intermittent)  |
| Soil   | 1.3 mg/kg (soil)   |
| Sediment   | 0.83 mg/kg (Seawater)  |
| <b>100-41-4 Ethylbenzene</b>                       |  |
| Sewage treatment plant                             | 9.6 mg/l (Sewage treatment plant)  |
| Aquatic compartment.                               | 0.1 mg/l (Freshwater)  |
| Aquatic compartment - water, intermittent releases | 0.01 mg/L (Seawater)   |
| Soil   | 13.7 mg/kg (Freshwater)  |
| Intermittent                                       | 0.1 mg/l (Intermittent)  |
| Soil   | 2.68 mg/kg (soil)  |
| Sediment   | 1.37 mg/kg (Seawater)  |
| <b>149-57-5 2-ethylhexanoic acid</b>               |  |
| Sewage treatment plant                             | 71.7 mg/l (Sewage treatment plant)   |
| Aquatic compartment.                               | 0.36 mg/l (Freshwater)   |
| Aquatic compartment.                               | 0.036 mg/l (Seawater)  |
| Soil   | 6.37 mg/kg (Freshwater)  |
| Intermittent                                       | 0.493 mg/l (Intermittent)  |
| Sediment   | 0.637 mg/kg (Seawater)   |
| Pollution  | 1.06 mg/kg (soil)  |
| <b>3648-18-8 dioctyltin dilaurate</b>              |  |
| Aquatic compartment.                               | 0 µg/l (Seawater)  |
|  | 0.002 µg/l (Freshwater)  |
| STP  | 100 mg/l (Segmentation, Targeting and Positioning)                         |
| Soil   | 0.028 mg/kg (Freshwater)   |
| Soil   | 0.006 mg/kg (soil)   |
| Sediment   | 0.003 mg/kg (Seawater)   |

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|   |  |
|---|--|
| · Ingredients with biological limit values: |  |
| 1330-20-7 Xylene                            |  |
| BMGV  | 650 mmol/mol creatinine<br>Medium: urine<br>Sampling time: post shift<br>Parameter: methyl hippuric acid |
| 78-93-3 butanone                            |  |
| BMGV  | 70 µmol/L<br>Medium: urine<br>Sampling time: post shift<br>Parameter: butan-2-one                        |
| 108-10-1 4-methylpentan-2-one               |  |
| BMGV  | 20 µmol/L<br>Medium: urine<br>Sampling time: post shift<br>Parameter: 4-methylpentan-2-one               |

- Additional information: The lists valid during the making were used as basis.
- 8.2 Exposure controls
- Appropriate engineering controls No further data; see item 7.
- Individual protection measures, such as 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.  
Avoid contact with the eyes and skin.
- Respiratory protection:  
In case of short or low load, breathing filter device; in the case of intensive or prolonged exposure, use a breathing apparatus independent of the surrounding air. A half-face mask for organic vapours and solvents according to EN140 type A1 or A2 is recommended.
- Hand protection



Protective gloves

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

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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.

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- Penetration time of glove material  
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:  
Butyl rubber, BR
- Eye/face protection



Tightly sealed goggles

**SECTION 9: Physical and chemical properties**

- 9.1 Information on basic physical and chemical properties
- General Information
- Physical state: Fluid
- Colour: According to product specification
- Odour: Characteristic
- Odour threshold: Not determined.
- Melting point/freezing point: Undetermined.
- Boiling point or initial boiling point and boiling range: 36 °C (1330-20-7 Xylene)
- Flammability: Not applicable.
- Lower and upper explosion limit
- Lower: 1.5 Vol % (108-65-6 2-methoxy-1-methylethyl acetate)
- Upper: 10.8 Vol % (108-65-6 2-methoxy-1-methylethyl acetate)
- Flash point: 16 °C
- Auto-ignition temperature: Product is not selfigniting.
- Decomposition temperature: Not determined.
- pH: Not determined.
- Viscosity:
- Kinematic viscosity at 20 °C: 40 s (DIN 53211/4)
- Dynamic: Not determined.
- Solubility
- water: Fully miscible.
- Partition coefficient n-octanol/water (log value): Not determined.
- Vapour pressure at 20 °C: 3.4 hPa
- Density and/or relative density
- Density at 20 °C: 1.03092 g/cm<sup>3</sup>
- Relative density: Not determined.
- Vapour density: Not determined.

- 9.2 Other information
- Appearance:
- Form: Fluid

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- Important information on protection of health and environment, and on safety.
- Ignition temperature: 315 °C (108-65-6 2-methoxy-1-methylethyl acetate)
- Explosive properties: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
- Solvent content:
- Organic solvents: 43.6 %
- VOC content: 43.65 %
- VOC content: 450.0 g/l / 3.76 lb/gal
- Solids content: 56.4 %
- Change in condition
- Evaporation rate Not determined.

- Information with regard to physical hazard classes
- Explosives Void
- Flammable gases Void
- Aerosols Void
- Oxidising gases Void
- Gases under pressure Void
- Flammable liquids Flammable liquid and vapour.
- Flammable solids Void
- Self-reactive substances and mixtures Void
- Pyrophoric liquids Void
- Pyrophoric solids Void
- Self-heating substances and mixtures Void
- Substances and mixtures, which emit flammable gases in contact with water Void
- Oxidising liquids Void
- Oxidising solids Void
- Organic peroxides Void
- Corrosive to metals Void
- Desensitised explosives Void

**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: No dangerous decomposition products known.

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**SECTION 11: Toxicological information**

- 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- Acute toxicity

- LD/LC50 values relevant for classification:

1330-20-7 Xylene

|        |   |  |
|--------|---|--|
| Dermal | Short-term exposure (15 minutes): 100 ppm | 442 mg/m <sup>3</sup> (Occupational exposure limits) |
|        | Long-term exposure (8 hours TWA): 50 ppm  | 221 mg/m <sup>3</sup> (Occupational exposure limits) |

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

|            |  |  |
|------------|--|--|
| Oral       | LD50                                     | 8,532 mg/kg bw (rat)                                 |
| Dermal     | Long-term exposure (8 hours TWA): 50 ppm | 550 mg/m <sup>3</sup> (Occupational exposure limits) |
| Inhalative | LC50/4 h                                 | 35.7 mg/l (rat)                                      |

78-93-3 butanone

|        |      |                         |
|--------|------|-------------------------|
| Oral   | LD50 | 3,300 mg/kg bw (rat)    |
| Dermal | LD50 | 5,000 mg/kg bw (rabbit) |

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

|            |   |  |
|------------|---|--|
| Oral       | LD50                                      | 2,080 mg/kg bw (rat)                                 |
| Dermal     | LD50                                      | 16,000 mg/kg bw (rab)                                |
|            | Short-term exposure (15 minutes): 100 ppm | 208 mg/m <sup>3</sup> (Occupational exposure limits) |
|            | Long-term exposure (8 hours TWA): 50 ppm  | 104 mg/m <sup>3</sup> (Occupational exposure limits) |
| Inhalative | LC50/4 h                                  | 8.3-16.6 mg/l (rat)                                  |

100-41-4 Ethylbenzene

|        |      |                          |
|--------|------|--------------------------|
| Oral   | LD50 | 3,500 mg/kg bw (rat)     |
| Dermal | LD50 | 17,800 mg/kg bw (rabbit) |

149-57-5 2-ethylhexanoic acid

|        |      |                         |
|--------|------|-------------------------|
| Oral   | LD50 | 3,000 mg/kg bw (rat)    |
| Dermal | LD50 | 1,260 mg/kg bw (rabbit) |

- Skin corrosion/irritation Causes skin irritation.
- Serious eye damage/irritation Causes serious eye irritation.
- Respiratory or skin sensitisation May cause an allergic skin reaction.
- STOT-repeated exposure  
May cause damage to the hearing organs through prolonged or repeated exposure.
- 11.2 Information on other hazards

- Endocrine disrupting properties

78-93-3 butanone

List II

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**SECTION 12: Ecological information**

· 12.1 Toxicity

· Aquatic toxicity:

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

EC50 408-500 mg/l (daphnia magna) (48 uur/hour)

IC 50 >1,000 mg/l (Algae, Growth inhibition test) (72 uur/hour)

LC50 100-180 mg/l (Fish Acute Toxicity Study) (96 uur/hour)

- 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.
- 12.5 Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.
- 12.6 Endocrine disrupting properties  
For information on endocrine disrupting properties see section 11.
- 12.7 Other adverse 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

**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.
- Recommended cleansing agents:  
Water, if necessary together with cleansing agents.

**SECTION 14: Transport information**

- 14.1 UN number or ID number
- ADR, IMDG, IATA UN1263
- 14.2 UN proper shipping name
- ADR 1263 PAINT
- IMDG, IATA PAINT

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· 14.3 Transport hazard class(es)

· ADR



· Class 3 (F1) Flammable liquids.  
· Label 3

· IMDG, IATA



· Class 3 Flammable liquids.  
· Label 3

· 14.4 Packing group

· ADR, IMDG, IATA III

· 14.5 Environmental hazards:

· Marine pollutant: No

· 14.6 Special precautions for user

Warning: Flammable liquids.

· Hazard identification number (Kemler code): 30

· EMS Number: F-E, S-E

· Stowage Category A

· 14.7 Maritime transport in bulk

according to IMO instruments Not applicable.

· Transport/Additional information:

· ADR

· Limited quantities (LQ) 5L

· Excepted quantities (EQ) Code: E1

Maximum net quantity per inner packaging:  
30 ml

Maximum net quantity per outer packaging:  
1000 ml

· Transport category 3

· Tunnel restriction code D/E

· IMDG

· Limited quantities (LQ) 5L

· Excepted quantities (EQ) Code: E1

Maximum net quantity per inner packaging:  
30 ml

Maximum net quantity per outer packaging:  
1000 ml

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· UN "Model Regulation": UN 1263 PAINT, 3, III

**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
- National regulations:
- Technical instructions (air):

| Class | Share in % |
|-------|------------|
| I     | <0.3       |
| NK    | 25-50      |

- Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.
- Other regulations, limitations and prohibitive regulations

· Substances of very high concern (SVHC) according to REACH, Article 57

3648-18-8 dioctyltin dilaurate

- 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.
  - H312 Harmful in contact with skin.
  - H315 Causes skin irritation.
  - H317 May cause an allergic skin reaction.
  - H319 Causes serious eye irritation.
  - H332 Harmful if inhaled.
  - H335 May cause respiratory irritation.
  - H336 May cause drowsiness or dizziness.
  - H361 Suspected of damaging fertility or the unborn child.
  - H361d Suspected of damaging the unborn child.
  - H371 May cause damage to organs.
  - H373 May cause damage to organs through prolonged or repeated exposure.

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H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.  
H412 Harmful to aquatic life with long lasting effects.  
EUH066 Repeated exposure may cause skin dryness or cracking.

- Department issuing SDS: Research & Development.
- Contact: J.J. van Dijk, tel: +31 297 360678, email: rend@epifanes.nl
- 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 relatif au transport international 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
  - SVHC: Substances of Very High Concern
  - vPvB: very Persistent and very Bioaccumulative
  - Flam. Liq. 2: Flammable liquids - Category 2
  - Flam. Liq. 3: Flammable liquids - Category 3
  - Acute Tox. 4: Acute toxicity - Category 4
  - Skin Irrit. 2: Skin corrosion/irritation - Category 2
  - Eye Irrit. 2: Serious eye damage/eye irritation - Category 2
  - Skin Sens. 1: Skin sensitisation - Category 1
  - Skin Sens. 1A: Skin sensitisation - Category 1A
  - Repr. 2: Reproductive toxicity - Category 2
  - Repr. 2: Reproductive toxicity - Category 2
  - STOT SE 2: Specific target organ toxicity (single exposure) - Category 2
  - STOT SE 3: Specific target organ toxicity (single exposure) - Category 3
  - STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2
  - 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 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3
- \* Data compared to the previous version altered.