

**1 Identification of substance**

- Product details
- Trade name: Epifanes Mono-urethane Colours
- Application of the substance / the preparation Paint
- Manufacturer/Supplier:  
 W.HEEREN & ZOON BV  
 Postbus 166  
 1430 AD Aalsmeer
- Information department: Environment protection department.
- Emergency information: Zie onder Fabrikant/leverancier

**2 Composition/Data on components**

- Chemical characterization
- Description:  
 Resin mixture  
 Solvent mixture with pigment additives

• Dangerous components:

64742-48-9	Naphtha (petroleum), hydrotreated heavy Xn; R 10-65-66	25-50%
1330-20-7	xylene Xn; R 10-20/21-38	≤ 2.5%
64742-95-6	Solvent naphtha (petroleum), light arom. Xn, N; R 10-37-51/53-65-66	≤ 2.5%

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

**3 Hazards identification**

- Hazard description: Not applicable.
- Information pertaining to particular dangers for man and environment:  
 The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.  
 At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.  
 R 10 Flammable.  
 R 66 Repeated exposure may cause skin dryness or cracking.
- Classification system:  
 The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.
- NFPA ratings (scale 0 - 4)  
 Health = 2  
 Fire = 2  
 Reactivity = 0
- HMIS-ratings (scale 0 - 4)  
 Health = 2  
 Fire = 2  
 Reactivity = 0

**4 First aid measures**

- After inhalation: Supply fresh air; consult doctor in case of complaints.  
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- After skin contact: Generally the product does not irritate the skin.
- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: If symptoms persist consult doctor.
- Information for doctor:
- Treatment If swallowed, gastric irrigation with added, activated carbon.

#### 5 Fire fighting measures

- Suitable extinguishing agents:  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray.
- For safety reasons unsuitable extinguishing agents: Water with full jet
- Special hazards caused by the material, its products of combustion or resulting gases:  
Formation of toxic gases is possible during heating or in case of fire.
- Protective equipment: No special measures required.

#### \* 6 Accidental release measures

- Person-related safety precautions:  
Ensure adequate ventilation  
Keep away from ignition sources  
Wear protective equipment. Keep unprotected persons away.
- Measures for environmental protection:  
Do not allow to enter sewers/ surface or ground water.
- Measures for cleaning/collecting:  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Ensure adequate ventilation.
- Additional information:  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.

#### \* 7 Handling and storage

- Handling:
- Information for safe handling:  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.
- Information about protection against explosions and fires:  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.
- Storage:
- Requirements to be met by storerooms and receptacles:  
Store only in the original receptacle.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions:  
Store in dry conditions.  
Keep receptacle tightly sealed.

#### \* 8 Exposure controls and personal protection

- Additional information about design of technical systems:  
No further data; see item 7.

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

1330-20-7 xylene

PEL	435 mg/m <sup>3</sup> , 100 ppm
REL	Short-term value: 655 mg/m <sup>3</sup> , 150 ppm Long-term value: 435 mg/m <sup>3</sup> , 100 ppm (o-, m-, & p-isomers)
TLV	Short-term value: 651 mg/m <sup>3</sup> , 150 ppm Long-term value: 434 mg/m <sup>3</sup> , 100 ppm
	BEI

- Additional information:  
The lists that were valid during the creation were used as basis.
- Personal protective equipment:
- General protective and hygienic measures:  
Wash hands before breaks and at the end of work.  
Do not inhale gases / fumes / aerosols.
- Breathing equipment:  
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
- Protection of hands:  
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.
- 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.
- Not suitable are gloves made of the following materials:  
Strong gloves  
Leather gloves
- Eye protection: Tightly sealed goggles
- Body protection: Use protective suit.

## 9 Physical and chemical properties

- General Information

Form:	Fluid
Color:	According to product specification
Odor:	Characteristic

- Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.

- Flash point: 42°C (108°F)

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• Ignition temperature:	240.0°C (464°F)
• Auto igniting:	Product is not selfigniting.
• Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
• Explosion limits:	
Lower:	0.6 Vol %
Upper:	7.0 Vol %
• Vapor pressure at 20°C (68°F):	1.0 hPa (1 mm Hg)
• Density at 20°C (68°F):	0.98 g/cm <sup>3</sup>
• Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
• pH-value at 20°C (68°F):	n.v.t.
• Viscosity:	
Kinematic at 20°C (68°F):	50 s (ISO 6 mm)
• Solvent separation test	n.v.t. %
• Solvent content:	
Organic solvents:	38.6 %
VOC content:	38.6 %
	VOC content: 378.6 g/l / 3.16 lb/gl
• Solids content:	60.9 % (VB% 1h 150C)

## 10 Stability and reactivity

- Thermal decomposition / conditions to be avoided:  
No decomposition if used according to specifications.
- Dangerous reactions No dangerous reactions known.
- Dangerous products of decomposition: No dangerous decomposition products known.

## 11 Toxicological information

- Acute toxicity:

- LD/LC50 values that are relevant for classification:

64742-48-9 Naphtha (petroleum), hydrotreated heavy

Oral	LD50	>5000 mg/kg (rat)
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Dermal	LD50	>3000 mg/kg (rab)
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96-29-7 2-butanone oxime

Oral	LD50	3700 mg/kg (rat)
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Dermal	LD50	200-2000 mg/kg (rat)
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Inhalative	LC50/4 h	20 mg/l (rat)
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64742-95-6 Solvent naphtha (petroleum), light arom.

Oral	LD50	>6800 mg/kg (rat)
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Dermal	LD50	>3400 mg/kg (rab)
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Inhalative	LC50/4 h	>10.2 mg/l (rat)
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- Primary irritant effect:
- on the skin: No irritant effect.

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- on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.

**12 Ecological information**

- Behavior in environmental systems:
- Mobility and bioaccumulation potential:  
Not worth-mentioning accumulating in organisms
- Ecotoxicological effects:
- Remark: Harmless to algae up to the tested concentration.
- General notes:  
Water hazard class 2 (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.

**13 Disposal considerations**

- Product:
- Recommendation:  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.
- Recommended cleansing agent: Solvent naphtha

**14 Transport information**

- DOT regulations:
- Packing group: III
- Proper shipping name (technical name): CONSUMER COMMODITY, ORM-D
- Remarks: CERCLA/DOT RQ: 617gal./4786 lbs.
- Land transport ADR/RID (cross-border):
- ADR/RID class: 3 Flammable liquids
- Danger code (Kemler): 30
- UN-Number: 1263
- Packaging group: III
- Description of goods: 1263 PAINT
- Maritime transport IMDG:
- IMDG Class: 3
- UN Number: 1263
- Label: 3
- Packaging group: III
- EMS Number: F-E,S-E
- Marine pollutant: No
- Proper shipping name: PAINT  
CONSUMER COMMODITY, ORM-D
- Remarks: System Reference Code:5
- Air transport ICAO-TI and IATA-DGR:
- ICAO/IATA Class: 3
- UN/ID Number: 1263
- Packaging group: III

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• Proper shipping name: PAINT

**15 Regulations**

• Sara

• Section 355 (extremely hazardous substances):

None of the ingredient is listed.

• Section 313 (Specific toxic chemical listings):

1330-20-7	xylene
100-41-4	ethylbenzene
95-63-6	1,2,4-trimethylbenzene

• TSCA (Toxic Substances Control Act):

64742-48-9	Naphtha (petroleum), hydrotreated heavy
1330-20-7	xylene
8002-43-5	Soyalecithine
96-29-7	2-butanone oxime
80-46-6	p-(1,1-dimethylpropyl)phenol
68409-80-3	Isomeren van vetzure calciumzouten, C6-C19 Isomers from fatty acid salts
22464-99-9	Zirconiumoctoate, 12 % Zr
100-41-4	ethylbenzene
64742-95-6	Solvent naphtha (petroleum), light arom.
7778-18-9	calcium sulphate, natural
136-52-7	cobalt bis(2-ethylhexanoate)
95-63-6	1,2,4-trimethylbenzene
112-34-5	2-(2-butoxyethoxy)ethanol
108-67-8	mesitylene
526-73-8	1,2,3-trimethylbenzene

• Proposition 65

• Chemicals known to cause cancer:

None of the ingredients is listed.

• Chemicals known to cause reproductive toxicity:

None of the ingredients is listed.

• Cancerogenity categories

• EPA (Environmental Protection Agency)

1330-20-7	xylene	D
100-41-4	ethylbenzene	D

• IARC (International Agency for Research on Cancer)

1330-20-7	xylene	3
100-41-4	ethylbenzene	2B
136-52-7	cobalt bis(2-ethylhexanoate)	2B

• NTP (National Toxicology Program)

None of the ingredients is listed.

• TLV (Threshold Limit Value established by ACGIH)

1330-20-7	xylene	A4
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• MAK (German Maximum Workplace Concentration)

96-29-7	2-butanone oxime	2
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• NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

• OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

• Product related hazard informations:

The product has been classified and marked in accordance with directives on hazardous materials.

• Risk phrases:

- 10 Flammable.
- 66 Repeated exposure may cause skin dryness or cracking.

• Safety phrases:

- 2 Keep out of the reach of children.
- 23 Do not breathe fumes/aerosol.
- 24 Avoid contact with skin.
- 46 If swallowed, seek medical advice immediately and show this container or label.
- 51 Use only in well-ventilated areas.

• National regulations:

• Technical instructions (air):

Class	Share in %
I	≤ 2,5
NK	25-50

• Water hazard class:

Water hazard class 2 (Self-assessment): hazardous for water.

**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.

- Department issuing MSDS: Environment protection department.
- Contact: J.J. van Dijk
- \* Data compared to the previous version altered.