

**1 Identification**

- Product identifier
- Trade name: Epifanes Poly-urethane Primer Comp. B (cure)
- Relevant identified uses of the substance or mixture and uses advised against
- Product category PC9a Coatings and paints, thinners, paint removers
- Process category  
PROC10 Roller application or brushing  
PROC7 Industrial spraying
- Environmental release category  
ERC8b Wide dispersive indoor use of reactive substances in open systems  
ERC8e Wide dispersive outdoor use of reactive substances in open systems  
ERC2 Formulation of preparations
- Application of the substance / the mixture  
See our technical datasheet for application of this product.
- 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  
fax +31-(0)297-342078  
email: r&d@epifanes.nl
- Information department: environment protection department
- Emergency telephone number:  
Emergency Phone Number (24 hours) CHEMTREC (800-424-9300)  
Outside US: 703-527-3887

**2 Hazard(s) identification**

- Classification of the substance or mixture



GHS02 Flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS08 Health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Carc. 2 H351 Suspected of causing cancer.



GHS07

Acute Tox. 4 H332 Harmful if inhaled.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.


STOT SE 3 H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

(Contd. on page 2)


Trade name: Epifanes Poly-urethane Primer Comp. B (cure)

(Contd. of page 1)

- Classification according to Directive 67/548/EEC or Directive 1999/45/EC

 Xn; Harmful

R20/21-48: Harmful by inhalation and in contact with skin. Danger of serious damage to health by prolonged exposure.

 Xi; Irritant

R36-42/43: Irritating to eyes. May cause sensitisation by inhalation and skin contact.

R10-52/53: Flammable. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- Information concerning particular hazards for human 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.
- Classification system:  
The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

- Label elements

- GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

- Hazard pictograms



GHS02



GHS07



GHS08

- Signal word Danger
- Hazard-determining components of labeling:  
aromatische polyisocyanat  
xylene  
Solvent naphtha (petroleum), light arom. (Note-P)  
ethylbenzene

- Hazard statements

H226 Flammable liquid and vapour.  
H332 Harmful if inhaled.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H317 May cause an allergic skin reaction.  
H351 Suspected of causing cancer.  
H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

- Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
P260 Do not breathe dust/fume/gas/mist/vapors/spray.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P310 If swallowed: Immediately call a poison center/doctor.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

(Contd. on page 3)

Trade name: Epifanes Poly-urethane Primer Comp. B (cure)

(Contd. of page 2)

- Classification system:
- NFPA ratings (scale 0 - 4)



Health = 1  
Fire = 2  
Reactivity = 0

- HMIS-ratings (scale 0 - 4)



Health = 1  
Fire = 2  
Reactivity = 0

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

### 3 Composition/information on ingredients

- Chemical characterization: Mixtures
- Description:  
Mixture of the substances listed below with nonhazardous additions.












- Dangerous components:

CAS: 53317-61-6 Reg.nr.: niet van toepassing	aromatische polyisocynaat ☒ Xi R36-43 ⚠ Eye Irrit. 2A, H319; Skin Sens. 1, H317	25-50%
CAS: 64742-95-6 EINECS: 265-199-0 Reg.nr.: 01-2119486773-24	Solvent naphtha (petroleum), light arom. (Note-P) ☒ Xn R65 ☒ Xi R37 ☒ N R51/53 R10-66-67 ⚠ Flam. Liq. 3, H226 ⚠ Asp. Tox. 1, H304 ⚠ STOT SE 3, H335-H336	25-50%
CAS: 108-65-6 EINECS: 203-603-9 Index number: 607-195-00-7 Reg.nr.: 01-2119475791-29	2-methoxy-1-methylethyl acetate ☒ Xi R36 R10 ⚠ Flam. Liq. 3, H226	10-25%
CAS: 1330-20-7 EINECS: 215-535-7 Index number: 601-022-00-9 Reg.nr.: 01-2119488216-32	xylene ☒ Xn R20/21 ☒ Xi R38 R10 ⚠ Flam. Liq. 3, H226 ⚠ Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	2.5-10%

(Contd. on page 4)

Trade name: Epifanes Poly-urethane Primer Comp. B (cure)

(Contd. of page 3)

<p>CAS: 100-41-4 EINECS: 202-849-4 Index number: 601-023-00-4 Reg.nr.: 01-2119489370-35</p>	<p>ethylbenzene  Xn R20  F R11 -----  Flam. Liq. 2, H225  Carc. 2, H351  Acute Tox. 4, H332</p>	<p>≤ 2.5%</p>
<p>CAS: 26471-62-5 EINECS: 247-722-4 Index number: 615-006-00-4 Reg.nr.: 01-2119454791-34</p>	<p>m-tolyldiene diisocyanate  T+ R26  Xn R40  Xi R36/37/38-42/43 R52/53 Carc. Cat. 3 -----  Acute Tox. 2, H330  Resp. Sens. 1, H334; Carc. 2, H351  Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335</p>	<p>≤ 0.5%</p>

Additional information:

Note P: The substance does not have to be classified as a carcinogen or mutagen as can be shown that the substance contains less than 0.1% (w / w) benzene (EINECS No 200-753-7.). This note applies only to certain complex oil-derived substances in Part 3.

For the wording of the listed risk phrases refer to section 16.

**4 First-aid measures**

- Description of first aid measures
- General information:  
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 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.
- 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.
- Information for doctor:  
Most important symptoms and effects, both acute and delayed  
No further relevant information available.
- Indication of any immediate medical attention and special treatment needed  
No further relevant information available.

**5 Fire-fighting measures**

- Extinguishing media
- Suitable extinguishing agents:  
CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- For safety reasons unsuitable extinguishing agents: Water with full jet
- Special hazards arising from the substance or mixture  
No further relevant information available.

(Contd. on page 5)

Trade name: Epifanes Poly-urethane Primer Comp. B (cure)

(Contd. of page 4)

- Advice for firefighters
- Protective equipment: Mouth respiratory protective device.

**6 Accidental release measures**

- Personal precautions, protective equipment and emergency procedures  
Wear protective equipment. Keep unprotected persons away.
- 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.
- 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.
- 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.

**7 Handling and storage**

- Handling:  
Precautions 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.
- 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 receptacle tightly sealed.
- Specific end use(s) No further relevant information available.

**8 Exposure controls/personal protection**

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

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

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

Inhalative	(Tgg)time weighted average 8 hours / Exposure time	550 mg/m <sup>3</sup> (Algemene bevolking/ General population)
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(Contd. on page 6)

Trade name: Epifanes Poly-urethane Primer Comp. B (cure)

(Contd. of page 5)

1330-20-7 xylene		
Inhalative	(Tgg)time weighted average 15 min. / Exposure time	442 mg/m <sup>3</sup> (Algemene bevolking/ General population)
	(Tgg)time weighted average 8 hours / Exposure time	210 mg/m <sup>3</sup> (Algemene bevolking/ General population)
100-41-4 ethylbenzene		
Inhalative	(Tgg)time weighted average 15 min. / Exposure time	430 mg/m <sup>3</sup> (Algemene bevolking/ General population)
	(Tgg)time weighted average 8 hours / Exposure time	215 mg/m <sup>3</sup> (Algemene bevolking/ General population)
108-65-6 2-methoxy-1-methylethyl acetate		
WEEL	Long-term value: 50 ppm	
1330-20-7 xylene		
PEL	Long-term value: 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	
TLV	Short-term value: 651 mg/m <sup>3</sup> , 150 ppm Long-term value: 434 mg/m <sup>3</sup> , 100 ppm BEI	
100-41-4 ethylbenzene		
PEL	Long-term value: 435 mg/m <sup>3</sup> , 100 ppm	
REL	Short-term value: 545 mg/m <sup>3</sup> , 125 ppm Long-term value: 435 mg/m <sup>3</sup> , 100 ppm	
TLV	Long-term value: 87 mg/m <sup>3</sup> , 20 ppm BEI	
26471-62-5 m-tolyldiene diisocyanate		
PEL	Ceiling limit value: 0.14 mg/m <sup>3</sup> , 0.02 ppm	
REL	LFC	
TLV	Short-term value: (0.14) NIC-0.021* mg/m <sup>3</sup> , (0.02) NIC-0.003* ppm Long-term value: (0.036) NIC-0.007* mg/m <sup>3</sup> , (0.005) NIC-0.001* ppm *(IFV) SEN; NIC-Skin; A3	
· Ingredients with biological limit values:		
1330-20-7 xylene		
BEI	1.5 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acids	

(Contd. on page 7)

Trade name: Epifanes Poly-urethane Primer Comp. B (cure)

(Contd. of page 6)

100-41-4 ethylbenzene

BEI	0.7 g/g creatinine Medium: urine Time: end of shift at end of workweek Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative)
	- Medium: end-exhaled air Time: not critical Parameter: Ethyl benzene (semi-quantitative)

- **Additional information:**  
The lists that were valid during the creation were used as basis.
- **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.  
Avoid contact with the eyes and skin.
- **Breathing equipment:**  
Suitable respiratory protective device recommended.  
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.  
Filter AX
- **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 through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **For the permanent contact gloves made of the following materials are suitable:**  
nitrile rubber;  
recommended glove thickness > 0.45mm. permeability / permeation time: > 480 min. according to EN 374.

(Contd. on page 8)

Trade name: Epifanes Poly-urethane Primer Comp. B (cure)

(Contd. of page 7)

- As protection from splashes gloves made of the following materials are suitable:  
Nitrile  
Glove thickness > 0.45 mm, breakthrough time > 30 min. to EN374
- Eye protection:



Tightly sealed goggles

**9 Physical and chemical properties**

· Information on basic physical and chemical properties	
· General Information	
· Appearance:	
Form:	Fluid
Color:	According to product specification
· Odor:	Characteristic
· Odour threshold:	Not determined.
· pH-value:	Not determined.
· Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	145 °C (293 °F)
· Flash point:	40 °C (104 °F)
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	315 °C (599 °F)
· Decomposition temperature:	Not determined.
· 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:	1.5 Vol %
Upper:	10.8 Vol %
· Vapor pressure at 20 °C (68 °F):	3.4 hPa (3 mm Hg)
· Density at 20 °C (68 °F):	1.15 g/cm <sup>3</sup> (9.597 lbs/gal)
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/ water):	
	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.

(Contd. on page 9)



Trade name: Epifanes Poly-urethane Primer Comp. B (cure)

(Contd. of page 8)

- Solvent content:
  - Organic solvents: 52.9 %
  - VOC content: 52.9 %
  - VOC content: 608.8 g/l / 5.08 lb/gl
- Solids content: 66.7 %
- Other information: No further relevant information available.

**10 Stability and reactivity**

- Reactivity
- Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Possibility of hazardous reactions: No dangerous reactions known.
- Conditions to avoid: No further relevant information available.
- Incompatible materials: No further relevant information available.
- Hazardous decomposition products: No dangerous decomposition products known.

**11 Toxicological information**

- Information on toxicological effects
- Acute toxicity:
- LD/LC50 values that are relevant for classification:

64742-95-6 Solvent naphtha (petroleum), light arom. (Note-P)		
Oral	LD50	3592 mg/kg (rat)
Dermal	LD50 (Konijn)	3160 mg/kg (rabbit)
Inhalative	LC50 (rat)	>6193 mg/m <sup>3</sup> (rat)
108-65-6 2-methoxy-1-methylethyl acetate		
Oral	LD50	8532 mg/kg bw (rat)
Inhalative	LC50/4 h	35.7 mg/l (rat)
1330-20-7 xylene		
Oral	LD50	4300 mg/kg bw (rat)
Dermal	LD50	2000 mg/kg bw (rabbit)
100-41-4 ethylbenzene		
Oral	LD50	3500 mg/kg bw (rat)
Dermal	LD50	17800 mg/kg bw (rabbit)

- Primary irritant effect:
  - on the skin: No irritant effect.
  - on the eye: Irritating effect.
- Sensitization:
  - Sensitization possible through inhalation.
  - Sensitization possible through skin contact.
- Additional toxicological information:
  - The product shows the following dangers according to internally approved calculation methods for preparations:
    - Harmful
    - Irritant

(Contd. on page 10)

Trade name: Epifanes Poly-urethane Primer Comp. B (cure)

(Contd. of page 9)

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

1330-20-7	xylene	3
100-41-4	ethylbenzene	2B
26471-62-5	m-tolylidene diisocyanate	2B

· NTP (National Toxicology Program)

26471-62-5	m-tolylidene diisocyanate	R
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· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

**12 Ecological information**

· Toxicity

· Aquatic toxicity:

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

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

IC 50 >1000 mg/l (Algae, Growth inhibition test) (72 uur/hour)

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

1330-20-7 xylene

EC50 1 mg/l (daphnia magna) (48 uur/hour)

LC50 13.5-2.6 mg/l (Fish Acute Toxicity Study) (96 uur/hour)

· Persistence and degradability No further relevant information available.

· Behavior in environmental systems:

· Bioaccumulative potential

1330-20-7 xylene

Log Kow 3 (not specified)

· Mobility in soil No further relevant information available.

· Ecotoxicological effects:

· Remark: Harmful to fish

· Additional ecological information:

· 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.

Harmful to aquatic organisms

· Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

· Other adverse effects No further relevant information available.

**13 Disposal considerations**

· Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

(Contd. on page 11)

Trade name: Epifanes Poly-urethane Primer Comp. B (cure)

(Contd. of page 10)

- Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.

**14 Transport information**

- UN-Number
- DOT, ADR, IMDG, IATA **UN1263**
- UN proper shipping name
- DOT **CONSUMER COMMODITY, ORM-D**
- ADR **Paint**
- IMDG **1263 Paint, ENVIRONMENTALLY HAZARDOUS**
- IATA **CONSUMER COMMODITY, ORM-D**
- IATA **PAINT**
- IATA **PAINT**
- Transport hazard class(es)
- DOT
- 
- Class **3 Flammable liquids**
- Label **3**
- ADR
- 
- Class **3 Flammable liquids**
- Label **3**
- IMDG, IATA
- 
- Class **3 Flammable liquids**
- Label **3**
- Packing group
- DOT, ADR, IMDG, IATA **III**
- Environmental hazards:
- Marine pollutant: **No**
- Special marking (ADR): **Symbol (fish and tree)**
- Special precautions for user **Warning: Flammable liquids**
- Danger code (Kemler): **30**
- EMS Number: **F-E, S-E**
- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code **Not applicable.**

(Contd. on page 12)

Trade name: Epifanes Poly-urethane Primer Comp. B (cure)

(Contd. of page 11)

· Transport/Additional information:	
· DOT	
· Quantity limitations	On passenger aircraft/rail: 60 L On cargo aircraft only: 220 L
· Remarks:	CERCLA/DOT RQ: 617gal./4786 lbs.
-----	
· ADR	
· 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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· 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
-----	
· UN "Model Regulation":	UN1263, Paint, ENVIRONMENTALLY HAZARDOUS, 3, III

**15 Regulatory information**

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- 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
26471-62-5   m-tolyldiene diisocyanate

· TSCA (Toxic Substances Control Act):
All ingredients are listed.

- Proposition 65

· Chemicals known to cause cancer:
100-41-4   ethylbenzene
26471-62-5   m-tolyldiene diisocyanate

· Chemicals known to cause reproductive toxicity for females:
None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:
None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:
None of the ingredients is listed.

- Cancerogenity categories

· EPA (Environmental Protection Agency)
1330-20-7   xylene
I

(Contd. on page 13)

Trade name: Epifanes Poly-urethane Primer Comp. B (cure)

(Contd. of page 12)

100-41-4	ethylbenzene	D
· TLV (Threshold Limit Value established by ACGIH)		
1330-20-7	xylene	A4
100-41-4	ethylbenzene	A3
26471-62-5	m-tolyldiene diisocyanate	(A4)
· MAK (German Maximum Workplace Concentration)		
100-41-4	ethylbenzene	3A
26471-62-5	m-tolyldiene diisocyanate	3A
· NIOSH-Ca (National Institute for Occupational Safety and Health)		
26471-62-5	m-tolyldiene diisocyanate	

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms



GHS02    GHS07    GHS08

· Signal word Danger

· Hazard-determining components of labeling:

aromatische polyisocyanat  
xylene

Solvent naphtha (petroleum), light arom. (Note-P)  
ethylbenzene

· Hazard statements

- H226 Flammable liquid and vapour.
- H332 Harmful if inhaled.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H317 May cause an allergic skin reaction.
- H351 Suspected of causing cancer.
- H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

· Precautionary statements

- P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- P260 Do not breathe dust/fume/gas/mist/vapors/spray.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P301+P310 If swallowed: Immediately call a poison center/doctor.
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· National regulations:

· Technical instructions (air):

Class	Share in %
I	≤0.5
NK	50-100

(Contd. on page 14)

Trade name: Epifanes Poly-urethane Primer Comp. B (cure)

(Contd. of page 13)

- Water hazard class:  
Water hazard class 2 (Self-assessment): hazardous for water.
- Chemical safety assessment:  
A Chemical Safety Assessment has not been carried out.

\* **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.

- Date of preparation / last revision 03/31/2015 / 2
- 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 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  
DOT: US Department of Transportation  
IATA: International Air Transport Association  
ACGIH: American Conference of Governmental Industrial Hygienists  
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)  
NFPA: National Fire Protection Association (USA)  
HMIS: Hazardous Materials Identification System (USA)  
VOC: Volatile Organic Compounds (USA, EU)  
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  
Acute Tox. 2: Acute toxicity, Hazard Category 2  
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2  
Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A  
Resp. Sens. 1: Sensitisation - Respirat., Hazard Category 1  
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1  
Carc. 2: Carcinogenicity, Hazard Category 2  
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3  
Asp. Tox. 1: Aspiration hazard, Hazard Category 1
- \* Data compared to the previous version altered.