



Uacht Coatings

Epifanes

Version number 7

Revision: 27.02.2017

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Printing date 27.02.2017
    SECTION 1: Identification of the substance/mixture and of the company/
    undertaking
  · 1.1 Product identifier
  · Trade name: Epifanes Epoxythinner D-601
  · 1.2 Relevant identified uses of the substance or mixture and uses advised
   against

    Product category

           Washing and cleaning products (including solvent based products)
   PC35
   PC0
          Other
  · Process category PROC10
                              Roller application or brushing
  • Environmental release category ERC2 Formulation into mixture
  · Application of the substance / the mixture
    See our technical datasheet for application of this product.
    Thinner for Neosil Epoxy primer
  · 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
    fax +31-(0)297-342078
    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!
    Department Research & Development
    SECTION 2: Hazards identification
  · 2.1 Classification of the substance or mixture
   Classification according to Regulation (EC) No 1272/2008
           GHS02 flame
                   H225 Highly flammable liquid and vapour.
    Flam. Liq. 2
           GHS07
                   H332 Harmful if inhaled.
    Acute Tox. 4
    Skin Irrit. 2 H315 Causes skin irritation.
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Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H335 May cause respiratory irritation.

· 2.2 Label elements

 Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation.

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(Contd. of page 1) · Hazard pictograms GHS02 GHS07 · Signal word Danger · Hazard-determining components of labelling: 4-methylpentan-2-one xylene · Hazard statements H225 Highly flammable liquid and vapour. H332 Harmful if inhaled. H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. · 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. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. P403+P233 Store in a well-ventilated place. Keep container tightly closed. Dispose of contents/container in accordance with local/regional/ P501 national/international regulations. · 2.3 Other hazards Results of PBT and vPvB assessment PBT: Not applicable. · vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

Solvent mixture Mixture of organic solvents Dangerous components:		
CAS: 108-10-1	4-methylpentan-2-one	25-50%
EINECS: 203-550-1 Index number: 606-004-00-4 Reg.nr.: 01-2119473980-30	 Flam. Liq. 2, H225 Acute Tox. 4, H332; Eye Irrit. 2, H319; STOT SE 3, H335 	
CAS: 1330-20-7 EINECS: 215-535-7 Index number: 601-022-00-9 Reg.nr.: 01-2119488216-32	xylene Flam. Liq. 3, H226 Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	25-50%
CAS: 107-98-2 EINECS: 203-539-1 Index number: 603-064-00-3 Reg.nr.: 01-2119457435-35	1-methoxy-2-propanol Flam. Liq. 3, H226 STOT SE 3, H336	10-25%



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 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: Take affected persons out into the fresh air. Do not leave affected persons unattended. Seek medical treatment. 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.
	Immediately rinse with water.
•	After eye contact:
	Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
•	After swallowing:
	Rinse out mouth and then drink plenty of water.
	Try not to vomit. Swallow activated carbon and sodium sulphate.
•	4.2 Most important symptoms and effects, both acute and delayed
	No further relevant information available.
•	4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing agents:
- CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- · 5.2 Special hazards arising from the substance or mixture Formation of toxic gases is possible during heating or in case of fire. During heating or in case of fire poisonous gases are produced.
- 5.3 Advice for firefighters · Protective equipment: Wear fully protective suit. Mouth respiratory protective device.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures Keep away from ignition sources. Ensure adequate ventilation Mount respiratory protective device. Wear protective equipment. Keep unprotected persons away.



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(Contd. of page 3) · 6.2 Environmental precautions: Prevent seepage into sewage system, workpits and cellars. 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			
	Use only in well ventilated areas.			
	Ensure good ventilation/exhaustion at the workplace.			
	Prevent formation of aerosols.			
•	Information about fire - and explosion protection:			
	Keep ignition sources away - Do not smoke.			
	Protect against electrostatic charges.			
	Keep respiratory protective device available.			
	7.2 Conditions for safe storage, including any incompatibilities Storage:			
•	Requirements to be met by storerooms and receptacles:			
	Store only in the original receptacle.			
	Store in a cool location.			
•	Information about storage in one common storage facility:			
	Store away from flammable substances.			

- · Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well sealed receptacles.
- · 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:

Inhalative	(Tgg)time weighted average 8 hours / Exposure time	104 mg/m ³ (Algemene bevolking/ General population)
	(Tgg)time weighted average 15 min. / Exposure time	208 mg/m ³ (Algemene bevolking/ General population)
1330-20-7 x	ylene	
Inhalative	(Tgg)time weighted average 8 hours / Exposure time	210 mg/m ³ (Algemene bevolking/ General population)
	(Tgg)time weighted average 15 min. / Exposure time	442 mg/m ³ (Algemene bevolking/ General population)



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107-98-2 1-	methoxy-2-propanol		(Contd. of pag
Inhalative	(Tgg)time weighted average hours / Exposure time		75 mg/m ³ (Algemene bevolking/ eneral population)
	(Tgg)time weighted average min. / Exposure time		63 mg/m ³ (Algemene bevolking/ General population)
108-10-1 4-	methylpentan-2-one		
WEL Short-term value: 416 mg/m ³ , 100 ppm Long-term value: 208 mg/m ³ , 50 ppm Sk, BMGV			
1330-20-7 x	ylene		
WEL Short-term value: 441 mg/m ³ , 100 ppm Long-term value: 220 mg/m ³ , 50 ppm Sk; BMGV			
107-98-2 1-	methoxy-2-propanol		
	term value: 560 mg/m³, 150 erm value: 375 mg/m³, 100 p		
DNELS			
1330-20-7 x	ylene		
Dermal	Long-term - local effects,	worker	180 (Werker/Worker)
Inhalative	Acute-local effects, worke	er	289 mg/m ³ (Werker/Worker)
	Acute - systemic effects,	worker	289 mg/m³ (Werker/Worker)
	Long-term - local effects,	worker	77 mg/m³ (Werker/Worker)
PNECs			-
1330-20-7 x	ylene		
	- parment - freshwater	0.327 m	g/L (not specified)
-	- partment - marine water		g/L (not specified)
-	partment - water,		mg/L (not specified)
Aquatic compartment - sediment in freshwater Aquatic compartment - sediment in marine water		12.46 m	ng/kg sed dw (not specified)
		12.46 m	ng/kg sed dw (not specified)
Terrestrial	comparment - soil	2.31 mg	/kg dw (not specified)
Sewage trea	tment plant	6.58 mg	/L (not specified)
Ingredients	with biological limit valu	les:	
-	methylpentan-2-one		
BMGV 20 µm			
	m: urine		
	ing time: post shift		
Param	eter: 4-methylpentan-2-one		
	ylene		
1330-20-7 x	mol/mol creatinine		
1330-20-7 x BMGV 650 m	Medium: urine		
1330-20-7 ж ВМGV 650 m Mediu	m: urine		
1330-20-7 x BMGV 650 m Mediu Sampl	-		



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· 8.2 Exposure controls
· Personal protective equipment:
· General protective and hygienic measures:
Do not eat, drink, smoke or sniff while working.
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:
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 self-contained respiratory protective
device.
Filter AX
• Protection of hands:
W? Protective gloves
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.
• For the permanent contact gloves made of the following materials are suitable:
PVA, fluorinated rubber Glove thickness> 0.7mm, breakthrough time> 480 min. To EN374
Butyl rubber, glove thickness 0.7 mm,> 480 min breakthrough time / permeation to EN374.
• 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
• Body protection: Use protective suit.

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SECTION 9: Physical and chemical pro	operties
 9.1 Information on basic physical ar General Information Appearance: 	
Form:	Fluid
Colour:	Clear
 Odour: Odour threshold: 	Characteristic Not determined.
· pH-value at 20 °C:	n.v.t.
· Change in condition	
Melting point/freezing point: Initial boiling point and boiling	n.v.t. °C J
range:	>125 °C
· Flash point:	16 °C
• Flammability (solid, gas):	Not applicable.
• Ignition temperature:	270 °C
• Decomposition temperature:	Not determined.
• Auto-ignition temperature:	Product is not selfigniting.
• Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
 Explosion limits: Lower: Upper: 	1.1 Vol % 20.0 Vol %
· Vapour pressure at 20 °C:	12 hPa
· Density at 20 °C:	0.85 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.
• Evaporation rate	Not determined.
 Solubility in / Miscibility with water at 20 °C: 	> 20 g/l
• Partition coefficient: n-octanol/	
water:	Not determined.
· Viscosity:	
Dynamic: Kinematic at 20 °C:	Not determined. 0.9 mm ² /s
· Solvent content:	
Organic solvents:	100.0 %
VOC content:	100.0 %
	VOC content:
	850.0 g/l / 7.09 lb/gl
• 9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

 \cdot 10.1 Reactivity No further relevant information available.

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 \cdot 10.2 Chemical stability

 \cdot 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.

- \cdot 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products:
- Flammable gases/vapours
- Aldehyde

Carbon monoxide and carbon dioxide

SECTION 11: Toxicological information

 11.1 Information on toxicological effects Acute toxicity Harmful if inhaled. 				
 LD/LC50 val 	· LD/LC50 values relevant for classification:			
108-10-1 4-	methylpent			
Oral	LD50	2080 mg/kg bw (rat)		
Dermal	LD50	16000 mg/kg bw (rab)		
Inhalative LC50/4 h 8.3-16.6 mg/l (rat)				
1330-20-7 x	ylene			
Oral	LD50	4300 mg/kg bw (rat)		
Dermal	LD50	2000 mg/kg bw (rabbit)		
107-98-2 1-	methoxy-2-	propanol		
Oral	LD50	5660 mg/kg bw (rat)		
Dermal	LD50	13000 mg/kg bw (rabbit)		
Inhalative	Inhalative LC50/4 h 6 mg/l (rat)			
 Primary irritant effect: Skin corrosion/irritation Causes skin irritation. Serious eye damage/irritation Causes serious eye irritation. Respiratory or skin sensitisation Based on available data, the classification criteria are not met. CMR effects (carcinogenity, mutagenicity and toxicity for reproduction) Germ cell mutagenicity Based on available data, the classification criteria are not met. Carcinogenicity Based on available data, the classification criteria are not met. Carcinogenicity Based on available data, the classification criteria are not met. Reproductive toxicity Based on available data, the classification criteria are not met. STOT-single exposure May cause respiratory irritation. STOT-repeated exposure Based on available data, the classification criteria are not met. Aspiration hazard Based on available data, the classification criteria are not met. 				

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SECTI	ON 12: Ecological information		
	Toxicity		
-	ic toxicity:		
	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)		
 Other 12.3 	Persistence and degradability No further relevant information available. information: The product is biodegradable. Bioaccumulative potential significant accumulation in organisms		
1330-	20-7 xylene		
Log Kow 3 (not specified)			
 Addit Gener Water Do no Dange 12.5 PBT: vPvB: 	Mobility in soil No further relevant information available. ional ecological information: al notes: c hazard class 2 (German Regulation) (Self-assessment): hazardous for water of allow product to reach ground water, water course or sewage system. er to drinking water if even small quantities leak into the ground. Results of PBT and vPvB assessment Not applicable. Not applicable. Other adverse effects No further relevant information available.		
	CON 13: Disposal considerations Waste treatment methods		
	waste treatment methods mendation		
Must	not be disposed together with household garbage. Do not allow product to a sewage system.		
· Europ	ean waste catalogue		

· European waste catalogue				
08 00 00 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS				
08 01 00	wastes from MFSU and removal of paint and varnish			
08 01 11* waste paint and varnish containing organic solvents or other hazardous substances				

• 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 (vapour pressure at 50 °C not more than 110 kPa)		
· IMDG, IATA	PAINT RELATED MATERIAL		
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Trade name: Epifanes Epoxythinner D-601 (Contd. of page 9) 14.3 Transport hazard class(es) · ADR 3 (F1) Flammable liquids. Class Label 3 · IMDG, IATA 3 Flammable liquids. · Class · 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 Stowage Category в · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable. • Transport/Additional information: · ADR 5L · Limited quantities (LQ) • Excepted quantities (EQ) 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 · TMDG 1L · Limited quantities (LQ) · Excepted quantities (EQ) Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml • UN "Model Regulation": UN 1263 PAINT RELATED MATERIAL (VAPOUR PRESSURE AT 50 °C NOT MORE THAN 110 KPA), 3, II GB (Contd. on page 11)



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SECTION 15: Regulatory information

- \cdot 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
- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- National regulations:
- · Technical instructions (air):

Class	Share in %
NK	50-100

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

- · 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. 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. · 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 IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) VOC: Volatile Organic Compounds (USA, EU) DNEL: Derived No-Effect Level (REACH) PNEC: Predicted No-Effect Concentration (REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Liq. 2: Flammable liquids - Category 2 Flam. Liq. 3: Flammable liquids - Category 3 Acute Tox. 4: Acute toxicity - Category 4 Skin Irrit. 2: Skin corrosion/irritation - Category 2

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(Contd. of page 11) Eye Irrit. 2: Serious eye damage/eye irritation - Category 2 STOT SE 3: Specific target organ toxicity (single exposure) - Category 3 • * Data compared to the previous version altered.

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