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according to UK REACH

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

· 1.1 Product identifier

· Trade name: Epifanes PP Varnish Extra Comp. B
· 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)
SU21 Consumer uses: Private households / general public / consumers
SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
· Process category
PROC7 Industrial spraying
PROC11 Non industrial spraying
· Environmental release category
ERC8c Widespread use leading to inclusion into/onto article (indoor)
ERC8f Widespread use leading to inclusion into/onto article (outdoor)
ERC5 Use at industrial site leading to inclusion into/onto article
· Application of the substance / the mixture
See our technical datasheet for application of this product.
Curing component of a high build two-component varnish
· Uses advised against
This product is not recommended for applications other than the uses identified above.

· 1.3 Details of the supplier of the safety data sheet
· Manufacturer/Supplier:
W.Heeren & Zoon bv.
Oosteinderweg 32
1432 AL Aalsmeer
Netherlands
tel.+31 297-360366
email: info@epifanes.nl
· Further information obtainable from: Research & Development.
· 1.4 Emergency telephone number: +61 7 5563 1222 (Monday-Friday 8:30am-5:00pm)

*
SECTION 2: Hazards identification

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



GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS08 health hazard

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

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GHS07

Acute Tox. 4	H332	Harmful if inhaled.
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.
STOT SE 3	H335-H336	May cause respiratory irritation. May cause drowsiness or dizziness.
Aquatic Chronic 3	H412	Harmful to aquatic life with long lasting effects.

· 2.2 Label elements
· Labelling according to Regulation (EC) No 1272/2008
The product is classified and labelled according to the GB CLP regulation.
· Hazard pictograms



GHS02 GHS07 GHS08

· Signal word Warning

· Hazard-determining components of labelling:
reaction mass of ethylbenzene and xylene
Aromatic polyisocyanate
XYLENE
Hydrocarbons, C9, aromatics.
m-tolylidene diisocyanate
· Hazard statements
H226 Flammable liquid and vapour.
H332 Harmful if inhaled.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.
H373 May cause damage to 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.

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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.

· Additional information:
Contains isocyanates. May produce an allergic reaction.
· 2.3 Other hazards
· Results of PBT and vPvB assessment
· PBT:
The product does not meet the criteria for PBT in accordance with UK REACH Annex XIII.
Not applicable
· vPvB:
The product does not meet the criteria for vPvB in accordance with UK REACH Annex XIII.

*

SECTION 3: Composition/information on ingredients

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

· Dangerous components:

CAS: 53317-61-6 Reg.nr.: niet van toepassing	Aromatic polyisocyanate Eye Irrit. 2, H319; Skin Sens. 1, H317	25-<50%
CAS: 1330-20-7 EINECS: 215-535-7 Index number: 601-022-00-9 Reg.nr.: 01-2119488216-32	XYLENE Flam. Liq. 3, H226 STOT RE 2, H373; Asp. Tox. 1, H304 Eye Irrit. 2, H319; STOT SE 3, H335	25-<50%
CAS: 128601-23-0 EC number: 918-668-5 Reg.nr.: 01-2119455851-35	Hydrocarbons, C9, aromatics. Flam. Liq. 3, H226 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 STOT SE 3, H335-H336	≥10-<25%

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CAS: 108-65-6 EINECS: 203-603-9 Index number: 607-195-00-7 Reg.nr.: 01-2119475791-29	2-methoxy-1-methylethyl acetate Flam. Liq. 3, H226 STOT SE 3, H336	≥2.5-≤25%
EC number: 905-588-0 Reg.nr.: 01-2119488216-32	reaction mass of ethylbenzene and xylene Flam. Liq. 3, H226 STOT RE 2, H373; Asp. Tox. 1, H304 Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	≥10-≤25%
CAS: 26471-62-5 EINECS: 247-722-4 Index number: 615-006-00-4 Reg.nr.: 01-2119454791-34	m-tolylidene diisocyanate Acute Tox. 2, H330 Resp. Sens. 1, H334; Carc. 2, H351 Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335 Aquatic Chronic 3, H412 EUH204 Specific concentration limit: Resp. Sens.1; H334: C ≥ 0.1 %	<0.1%

· 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.
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.
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.

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· 4.3 Indication of any immediate medical attention and special treatment needed
No further relevant information available.

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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
· 5.2 Special hazards arising from the substance or mixture
During heating or in case of fire poisonous gases are produced.
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 section 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.

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· 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:
100 mg/m3, 19 ppm, TWA Manuf. data

1330-20-7 XYLENE	
WEL	Short-term value: 441 mg/m³, 100 ppm Long-term value: 220 mg/m³, 50 ppm Sk; BMGV
108-65-6 2-methoxy-1-methylethyl acetate	
WEL	Short-term value: 548 mg/m³, 100 ppm Long-term value: 274 mg/m³, 50 ppm Sk
26471-62-5 m-tolylidene diisocyanate	
WEL	Short-term value: 0.07 mg/m³ Long-term value: 0.02 mg/m³ Sen; as -NCO

· 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/dag (consumer)
Dermal	Long-term - systemic effects.	108 mg/kg/dag (consumer)
Inhalative	Long-term - systemic effects.	14.8 mg/m³ (consumer)
	Short-term systemic effects.	174 mg/m3 (consumer)
	Short term - local effects.	174 mg/m³ (consumer)
128601-23-0 Hydrocarbons, C9, aromatics.		
Oral	Long-term -systemic effects.	11 mg/kg/dag (consumer)
Dermal	Long-term - systemic effects.	11 mg/kg/dag (consumer)
Inhalative	Long-term - systemic effects.	32 mg/m³ (consumer)
108-65-6 2-methoxy-1-methylethyl acetate		
Oral	Long-term - systemic effects.	36 mg/kg/dag (consumer)
Dermal	Long-term - systemic effects.	320 mg/kg/dag (consumer)
Inhalative	Long-term - systemic effects.	33 mg/m³ (consumer)

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26471-62-5 m-tolylidene diisocyanate		
Inhalative	Acute / short term - local defects	0.14 mg/m³ (Employees)
	Acute / short-term - systemic effects.	0.14 mg/m³ (Employees)
	Long-term - local effects.	0.035 mg/m³ (Employees)
	Long-term - systemic effects.	0.035 mg/m³ (Employees)

· DNEL (Derived No Effect Level) for general audience

1330-20-7 XYLENE		
Dermal	Long-term - systemic effects.	180 mg/kg/dag (Employees)
Inhalative	Lange termijn systemische effecten.	77 mg/m³ (Employees)
	Short-term - systemic effects.	289 mg/m³ (Employees)
	Short-term - local effects.	289 mg/m³ (Employees)
	Long-term - local effects.	77 mg/m³ (Employees)
128601-23-0 Hydrocarbons, C9, aromatics.		
Dermal	Long-term - systemic effects.	25 mg/kg/dag (Employees)
Inhalative	Lange termijn systemische effecten.	150 mg/m³ (Employees)
108-65-6 2-methoxy-1-methylethyl acetate		
Dermal	Long-term - systemic effects.	796 mg/kg/dag (Employees)
Inhalative	Long-term - systemic effects.	275 mg/m³ (Employees)

· PNECs

1330-20-7 XYLENE	
Intermittent	0.327 mg/l (Intermittent Release Water)
Freshwater	0.327 mg/l (Freshwater)
Marine water	0.327 mg/l (Marine water)
Sediment (freshwater)	12.46 mg/kg sed dw (Freshwater)
Sediment (marine water)	12.46 mg/kg sed dw (Marine water)
STP	6.58 mg/l (Segmentation, Targeting and Positioning)
Soil	2.31 mg/kg (soil)
108-65-6 2-methoxy-1-methylethyl acetate	
Food chain	100 mg/l (Food chain)
Sewage treatment plant	100 mg/l (Sewage treatment plant)
Freshwater	6.35 mg/l (Freshwater)
Marine water	0.0635 mg/l (Marine water)
Sediment (freshwater)	3.29 mg/kg sed dw (Freshwater)
Sediment (marine water)	0.329 mg/kg sed dw (Marine water)
Soil	0.29 mg/kg (soil)
26471-62-5 m-tolylidene diisocyanate	
Freshwater	0.013 mg/l (Freshwater)

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Marine water	0.001 mg/l (Marine water)
STP	1 mg/l (Segmentation, Targeting and Positioning)
Soil	1 mg/kg (soil)

· Ingredients with biological limit values:

1330-20-7 XYLENE

BMGV	650 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: methyl hippuric acid

· Additional information: The lists valid during the making were used as basis.

· 8.2 Exposure controls
· Appropriate engineering controls No further data; see section 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:
Filter AX
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
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation



Protective gloves

The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information on the breakthrough time of the glove material
provide. The gloves selected should have a breakthrough time of at least 8 hours
have. Nitrile rubber. Viton rubber (fluoro rubber). To protect hands from chemicals, gloves must comply with European Standard EN374.
· 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.
· Eye/face protection



Tightly sealed goggles

· Body protection:
· Skin protection
Wear suitable protective clothing to protect against splashes or contamination. For
best protection, clothing should include anti-static overalls, boots and gloves.
· Environmental exposure controls
Keep container tightly closed when not in use regarding restrictions on emissions to air, water and soil.

*

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties
· General Information

· Physical state	Liquid
· Colour:	Colourless
· Odour:	Characteristic
· Odour threshold:	Not determined
· Melting point/freezing point:	Undetermined
· Boiling point or initial boiling point and boiling range	146.4 °C (108-65-6 2-methoxy-1-methylethyl acetate)
· Flammability	Flammable.
· Lower and upper explosion limit	
· Lower:	1.5 Vol %
· Upper:	11.5 Vol %
· Flash point:	>23 °C
· Auto-ignition temperature:	315 °C (108-65-6 2-methoxy-1-methylethyl acetate)
· Decomposition temperature:	Not determined
· pH	Mixture reacts violently with water.
· Viscosity:	
· Kinematic viscosity at 20 °C	40 s (ISO 6 mm)
· Dynamic:	Not determined
· Solubility	
· water:	Fully miscible.
· Partition coefficient n-octanol/water (log value)	Not determined
· Vapour pressure:	Not determined

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· Density and/or relative density	
· Density at 20 °C:	1.018 g/cm³
· Relative density	Not determined
· Vapour density	Not determined
· 9.2 Other information	
· Appearance:	
· Form:	Fluid
· Important information on protection of health and environment, and on safety.	
· Ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Solvent content:	
· Organic solvents:	46.8-<52.7 %
· VOC content:	46.78-<52.69 % VOC content: 536.4 g/l / 4.48 lb/gal
· Solids content:	0.0 %
· 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

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SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

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· 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
Avoid heat, flames and other sources of ignition. Static electricity and spark formation
should be avoided. Do not pressurise, cut, weld, drill, abrade or otherwise expose to heat or sources of ignition.
· 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 - oral
Acute toxicity by ingestion
(LD□□ mg/kg)
3.523,0
Species Rat
Acute toxicity - dermal
ATE dermal (mg/kg) 1,100.0
Acute toxicity - inhalation
Species Rat
ATE inhalation (vapours mg/l) 12,8
· Acute toxicity
Harmful if inhaled.

· LD/LC50 values relevant for classification:		
1330-20-7 XYLENE		
Oral	LD50	4,300 mg/kg (rat)
Dermal	LD50	1,100 mg/kg (rabbit)
Inhalative	LC50	11 mg/l (rabbit)
128601-23-0 Hydrocarbons, C9, aromatics.		
Oral	LD50	3,492 mg/kg (rat) (OECD 401)
Dermal	LD50	3,160 mg/kg (rabbit) (OECD 402)
Inhalative	LC50	>6,193 mg/m³ (rat) (OECD 403)
108-65-6 2-methoxy-1-methylethyl acetate		
Oral	LD50	8,532 mg/kg (rat)
Dermal	LD50	>5 g/kg (rabbit)
Inhalative	LC50 6 hours	16,000 mg/m³ (rat)

· Primary irritant effect:
· Skin corrosion/irritation
Causes skin irritation.

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· Serious eye damage/irritation
Causes serious eye irritation.
· Respiratory or skin sensitisation
May cause an allergic skin reaction.
· Germ cell mutagenicity Void
· 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. May cause drowsiness or dizziness.
· STOT-repeated exposure
May cause damage to organs through prolonged or repeated exposure.
· 11.2 Information on other hazards

· Endocrine disrupting properties
None of the ingredients is listed.

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SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:	
1330-20-7 XYLENE	
EC10 72 hours	1.9 mg/l (Microalgae)
EC50 24 hours	1 mg/l ((Rainbow trout)) (OECD 202)
EC50 3 hours	>157 mg/l (Microorganisms) (OECD 209)
EC10 21 days	1.91 mg/l (Water fleas) (OECD 211)
LC50 96 hours	2.6 mg/l ((Rainbow trout)) (OECD 203)
	13.5 mg/l (Bluegill) (OECD 203)
	21 mg/l (Thick-headed zip) (OECD 203)
	2-5 mg/l (Striped bass) (OECD 203)
ErC50 72 uur	4.36 mg/l (Microalgae)
EC50 48 hours	1-5 mg/l (Water fleas) (OECD 202)
IC50 72 hours	3-5 mg/l (algae)
NOEC 56 hours	1.3 mg/l ((Rainbow trout))
128601-23-0 Hydrocarbons, C9, aromatics.	
EC50/48 h	3.2 mg/l ((Daphnia magna))
LC50 (96 hours)	9.2 mg/l ((rainbow trout))
EC50 (72 hours)	2.9 mg/l (algae) (NOEC)

· 12.2 Persistence and degradability
Persistence and degradability
The product is readily biodegradable.
Biodegradability - 78%: 28 days OECD 301F

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· Behaviour in environmental systems:
· Components:
Xylene: Biodegradability;
- Degradation 87.8%: 28 days / OECD 301F

Ethylbenzene: Biodegradability; Degradation 70 - 80%: 28 days

- Degradation 100%: 6 days / OECD 301E

2-methoxy-1-methyl acetate: Biodegradability: 83%; 28 days / Manometric respirometry test (TG 301 F)
· 12.3 Bioaccumulative potential Does not accumulate in organisms
· Bioconcentration factor (BCF)
Xylene BCF: 5.4 - 25.9, Oncorhynchus mykiss (Rainbow trout)
Ethylbenzene BCF: <100, Fish "Read-across" data.
2-methoxy-1-methyl acetate BCF: <100
· 12.4 Mobility in soil
Xylene: The product is not miscible with water and spreads on the water surface.
Ethylbenzene: Mobility The product is not soluble in water.
The product is not soluble in water.
· 12.5 Results of PBT and vPvB assessment
· PBT:
irrelevant
This substance is not classified as PBT or vPvB according to current EU criteria.
· vPvB:
This substance is not classified as vPvB according to current EU criteria.
· 12.6 Endocrine disrupting properties
The product does not contain substances with endocrine disrupting properties.
· 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.

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· Recommended cleansing agents:
Water, if necessary together with cleansing agents.

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SECTION 14: Transport information

· 14.1 UN number or ID number	
· ADR, IMDG	Void
· IATA	UN1263
· 14.2 UN proper shipping name	
· ADR, IMDG	Void
· IATA	PAINT
· 14.3 Transport hazard class(es)	
· ADR, ADN, IMDG	
· Class	Void
· IATA	



· Class	3 Flammable liquids.
· Label	3
· 14.4 Packing group	
· ADR, IMDG	Void
· IATA	III
· 14.5 Environmental hazards:	
· Marine pollutant:	No
· 14.6 Special precautions for user	Not applicable
· 14.7 Maritime transport in bulk according to IMO instruments	Not applicable
· Transport/Additional information:	
· ADR	
· Remarks:	> 450 l: 3 F1, III
· IMDG	
· Remarks:	> 450 l: 3, III
· UN "Model Regulation":	Void

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SECTION 15: Regulatory information

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

· Regulated explosives precursors
None of the ingredients is listed.

· Regulated poisons
None of the ingredients is listed.

· Reportable explosives precursors
None of the ingredients is listed.

· Reportable poisons
None of the ingredients is listed.

· 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 %
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
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.
H330 Fatal if inhaled.
H332 Harmful if inhaled.

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Safety data sheet
according to UK REACH

Printing date 12.05.2026 Version number 27 Revision: 11.05.2026

Trade name: Epifanes PP Varnish Extra Comp. B

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H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H351 Suspected of causing cancer.
H373 May cause damage to organs through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.
EUH204 Contains isocyanates. May produce an allergic reaction.

· Classification according to Regulation (EC) No 1272/2008
The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

· 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 (UK REACH)
PNEC: Predicted No-Effect Concentration (UK REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
ATE: Acute toxicity estimate values
Flam. Liq. 3: Flammable liquids – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Acute Tox. 2: Acute toxicity – Category 2
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Resp. Sens. 1: Respiratory sensitisation – Category 1
Skin Sens. 1: Skin sensitisation – Category 1
Carc. 2: Carcinogenicity – 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 Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

· Sources
ECHA European Chemical Agency - http://echa.europa.eu/information-on-chemicals
SDS of raw materials provided by producer/supplier.
DNEL/PNEC/Aquatic toxicity provided according to safety data sheet producer/supplier.

· * Data compared to the previous version altered.