

Safety data sheet
according to UK REACH

Printing date 04.05.2026

Version number 35

Revision: 20.04.2026

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

- 1.1 Product identifier
- Trade name: Epifanes Multi Marine Primer
- 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
- Product category PC9a Coatings and paints, thinners, paint removers
- Process category 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
 - AC7 Metal articles
 - AC13 Plastic articles
- Application of the substance / the mixture
See our technical datasheet for application of this product.
One-component universal primer
- 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.



GHS09 environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

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GHS07

STOT SE 3

H336 May cause drowsiness or dizziness.

- 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



GHS09

- Signal word Warning
- Hazard-determining components of labelling:
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, < 2% aromatics.
Hydrocarbons, C9, aromatics.
- Hazard statements
H226 Flammable liquid and vapour.
H336 May cause drowsiness or dizziness.
H411 Toxic 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.
- Additional information:
EUH066 Repeated exposure may cause skin dryness or cracking.
Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
- 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

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- 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: 64742-48-9 EC number: 919-857-5 Index number: 649-327-00-6 Reg.nr.: 01-2119463258-33	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, < 2% aromatics. Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H336 EUH066	10-25%
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%
CAS: 1314-13-2 EINECS: 215-222-5 Index number: 030-013-00-7 Reg.nr.: 01-2119463881-32	Zinc oxide Aquatic Acute 1, H400; Aquatic Chronic 1, H410	2.5-10%
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	≤2.5%
CAS: 123-86-4 EINECS: 204-658-1 Index number: 607-025-00-1 Reg.nr.: 01-2119485493-29	N-butyl acetate Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	≥0-<0.3%

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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	≥0-<0.3%
CAS: 77-99-6 EINECS: 201-074-9 Reg.nr.: 01-2119486799-10	propylidynetrimethanol Repr. 2, H361fd	<0.3%

- 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; consult doctor in case of complaints.
- After skin contact: Immediately rinse with water.
- After eye contact: Rinse opened eye for several minutes under running water.
- 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:
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.

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- 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.
- 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/m ³ , 100 ppm Long-term value: 220 mg/m ³ , 50 ppm Sk; BMGV
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123-86-4 N-butyl acetate

WEL	Short-term value: 966 mg/m ³ , 200 ppm Long-term value: 724 mg/m ³ , 150 ppm
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108-65-6 2-methoxy-1-methylethyl acetate

WEL	Short-term value: 548 mg/m ³ , 100 ppm
	Long-term value: 274 mg/m ³ , 50 ppm
	Sk

· Regulatory information WEL: EH40/2020

· DNEL (Derived No Effect Level) voor professionals

64742-48-9 Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, < 2% aromatics.

Oral	Long-term - systemic effects.	125 mg/kg bw/dag (consumer)
Dermal	Long-term - systemic effects.	125 mg/kg bw/dag (consumer)
Inhalative	Long-term - systemic effects.	185 mg/m ³ (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/m ³ (consumer)

1314-13-2 Zinc oxide

Oral	Long-term - systemic effects.	0.83 mg/kg bw/dag (consumer)
Dermal	Long-term - systemic effects.	83 mg/kg bw/dag (consumer)
Inhalative	Long-term - systemic effects.	2.5 mg/m ³ (consumer)

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/m ³ (consumer)
	Short-term systemic effects.	174 mg/m ³ (consumer)
	Short term - local effects.	174 mg/m ³ (consumer)

123-86-4 N-butyl acetate

Oral	Long-term - systemic effects.	2 mg/kg bw/dag (consumer)
	Short-term - systemic effects	2 mg/kg bw/dag (consumer)
Dermal	Short-term - systemic effects	6 mg/kg/bw/dag (consumer)
	Long-term - systemic effects	3.4 mg/kg bw/dag (consumer)
Inhalative	Long-term - systemic effects.	12 mg/m ³ (consumer)
	Long-term - local effects.	300 mg/m ³ (consumer)
	Short-term systemic effects.	300 mg/m ³ (consumer)
	Short term - local effects.	300 mg/m ³ (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/m ³ (consumer)

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77-99-6 propylidynetrimethanol

Oral	Long-term - systemic effects.	0.34 mg/kg bw/day (consumer)
Dermal	Acute/short-term -local effects	0.34 mg/kg/bw/dag (consumer)
Inhalative	Long-term - systemic effects.	0.58 mg/m ³ (consumer)

· DNEL (Derived No Effect Level) for general audience
64742-48-9 Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, < 2% aromatics.

Dermal	Long-term - systemic effects.	208 mg/kg/dag (Employees)
Inhalative	Lange termijn systemische effecten.	871 mg/m ³ (Employees)

128601-23-0 Hydrocarbons, C9, aromatics.

Dermal	Long-term - systemic effects.	25 mg/kg/dag (Employees)
Inhalative	Lange termijn systemische effecten.	150 mg/m ³ (Employees)

1314-13-2 Zinc oxide

Dermal	Long-term - systemic effects	83 mg/kg/dag (Employees)
Inhalative	Long-term - systemic effects.	5 mg/m ³ (Employees)
	Long-term - local effects.	0.5 mg/m ³ (Employees)

1330-20-7 XYLENE

Dermal	Long-term - systemic effects.	180 mg/kg/dag (Employees)
Inhalative	Lange termijn systemische effecten.	77 mg/m ³ (Employees)
	Short-term - systemic effects.	289 mg/m ³ (Employees)
	Short-term - local effects.	289 mg/m ³ (Employees)
	Long-term - local effects.	77 mg/m ³ (Employees)

123-86-4 N-butyl acetate

Dermal	Long-term - systemic effects.	7 mg/kg/dag (Employees)
	Short-term - systemic effects	11 mg/kg/dag (Employees)
Inhalative	Lange termijn systemische effecten.	48 mg/m ³ (Employees)
	Short-term - systemic effects.	600 mg/m ³ (Employees)
	Short-term - local effects.	600 mg/m ³ (Employees)
	Long-term - local effects.	300 mg/m ³ (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/m ³ (Employees)

77-99-6 propylidynetrimethanol

Dermal	Long-term - systemic effects.	0.94 mg/kg bw/day (Employees)
Inhalative	Long-term - systemic effects.	3.3 mg/m ³ (Employees)

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· PNECs

1314-13-2 Zinc oxide

Marine water	6.1 µg/L (Marine water)
Freshwater	20.6 µg/l (Freshwater)
Sediment (freshwater)	117.8 mg/kg sed dw (Freshwater)
Sediment (marine water)	56.5 mg/kg sed dw (Marine water)
STP	0.1 mg/l (Sewage treatment plant)
Soil	56.5 mg/kg (Marine water)
	117.8 mg/kg (Freshwater)
Soil	35.6 mg/kg (soil)

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)

123-86-4 N-butyl acetate

Sewage treatment plant	35.6 mg/l (Sewage treatment plant)
Freshwater	0.18 mg/l (Freshwater)
Marine water	0.018 mg/l (Marine water)
Sediment (freshwater)	0.981 mg/kg sed dw (Freshwater)
Sediment (marine water)	0.098 mg/kg sed dw (Marine water)
Intermittent releases	0.36 mg/l (Freshwater)
Soil	0.09 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)

· Ingredients with biological limit values:

1330-20-7 XYLENE

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

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- 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:
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
- 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.
- 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.
- As protection from splashes gloves made of the following materials are suitable:
Cloropene; handglove thickness > 0.7mm, penetration time > 60min. according EN374.
Nitrilrubber; handglove thickness > 0.3mm, penetration time > 60min. according EN374.

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- 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: Different according to colouring
- Odour: Characteristic
- Odour threshold: Not determined
- Melting point/freezing point: Undetermined
- Boiling point or initial boiling point and boiling range: 150 °C (128601-23-0 Hydrocarbons, C9, aromatics.)
Flammable.
- Flammability: Flammable.
- Lower and upper explosion limit
- Lower: 1.1 Vol %
- Upper: 7 Vol %
- Flash point: 40 °C
- Auto-ignition temperature: 500 °C
- Decomposition temperature: Not determined
- pH: Mixture is non-soluble (in water).
- Viscosity:
- Kinematic viscosity at 20 °C: 35 s (ISO 6 mm)
- Dynamic: Not determined
- Solubility
- water: Fully miscible.
- Partition coefficient n-octanol/water (log value): Not determined
- Vapour pressure: Not determined
- Density and/or relative density
- Density at 20 °C: 1.35 g/cm³
- Relative density: Not determined

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· 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:	≥33.2-<33.3 %
· VOC content:	≥33.2-<33.33 %
	VOC content:
	450.0 g/l / 3.76 lb/gal
· Solids content:	66.0 %
· 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

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.

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- 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.

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
(LD₅₀ 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 Void

- LD/LC50 values relevant for classification:

64742-48-9 Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, < 2% aromatics.

Oral	LD50	>5,000 mg/kg (rat) (OESO 401)
Dermal	LD50	>5,000 mg/kg (rabbit) (OESO 402)
Inhalative	LC50 4 hours	4,951 mg/m ³ (rat) (OESO 403)

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/m ³ (rat) (OECD 403)

1314-13-2 Zinc oxide

Oral	LD50	7,950 mg/kg bw (mouse)
	LD50	>15,000 mg/kg (rat)

1330-20-7 XYLENE

Oral	LD50	4,300 mg/kg (rat)
Dermal	LD50	1,100 mg/kg (rabbit)
Inhalative	LC50	11 mg/l (rabbit)

123-86-4 N-butyl acetate

Oral	LD50	10,760 mg/kg bw (rat)
Dermal	LD50	>14,000 mg/kg bw (rabbit)

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Inhalative	LC50/4 h	>20 mg/l (rat)
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/m ³ (rat)
77-99-6 propylidynetrimethanol		
Oral	LD50	14,100 mg/kg bw (rat)
Dermal	LD50	>5,000 mg/kg bw (rabbit)
Inhalative	LC50	>6.8 mg/l (rat)

- Primary irritant effect:
- Skin corrosion/irritation Void
- Serious eye damage/irritation Void
- Respiratory or skin sensitisation
- Based on available data, the classification criteria are not met.
- 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 drowsiness or dizziness.
- STOT-repeated exposure
- Based on available data, the classification criteria are not met.
- 11.2 Information on other hazards

- Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

- 12.1 Toxicity

- Aquatic toxicity:

64742-48-9 Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, < 2% aromatics.

LC50 48 hours	1,000 mg/l (Water fleas)
LL50 96 hours	>1,000 mg/l ((Rainbow trout))
NOELR 72 uur	100 mg/l (Microalgae)
EL50 72 hours	1,000 mg/l (Microalgae)

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)

1314-13-2 Zinc oxide

LC50 96 hours	0.169 mg/l ((Rainbow trout))
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NOEC	0.0299 mg/l (algae)
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))

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

- 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.

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- 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: Toxic for fish
- Additional ecological information:
- General notes:
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Also poisonous for fish and plankton in water bodies.
Toxic for 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, ENVIRONMENTALLY HAZARDOUS
- IMDG PAINT, MARINE POLLUTANT
- IATA PAINT
- 14.3 Transport hazard class(es)
- ADR
- 

- Class 3 (F1) Flammable liquids.

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· Label	3
· IMDG	
 	
· Class	3 Flammable liquids.
· Label	3
· IATA	
	
· Class	3 Flammable liquids.
· Label	3
· 14.4 Packing group	
· ADR, IMDG, IATA	III
· 14.5 Environmental hazards:	Product contains environmentally hazardous substances: Hydrocarbons, C9, aromatics.
· Marine pollutant:	No
· Special marking (ADR):	Symbol (fish and tree)
· 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
· Remarks:	Exempted in containers up to 450 litres according to ADR 2.2.3.1.5

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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": UN 1263 PAINT, 3, III, ENVIRONMENTALLY HAZARDOUS

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
- E2 Hazardous to the Aquatic Environment
- P5c FLAMMABLE LIQUIDS
- Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t

- National regulations:

- Technical instructions (air):

Class	Share in %
NK	25-50

- 15.2 Chemical safety assessment:
- A Chemical Safety Assessment has not been carried out.

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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.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.
- EUH066 Repeated exposure may cause skin dryness or cracking.

• 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
- Eye Irrit. 2: Serious eye damage/eye irritation - Category 2
- Repr. 2: Reproductive toxicity - 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 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2

• Sources

ECHA European Chemical Agency - <http://echa.europa.eu/information-on-chemicals>
SDS of raw materials provided by producer/supplier.

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DNEL/PNEC/Aquatic toxicity provided according to safety data sheet producer/
supplier.

- * Data compared to the previous version altered.

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