

Safety data sheet
according to UK REACH

Printing date 04.05.2026

Version number 20 (replaces version 19)

Revision: 04.05.2026

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

- 1.1 Product identifier
- Trade name: Epifanes Poly-urethane Brushthinner
- CAS Number:
108-65-6
- EC number:
203-603-9
- Index number:
607-195-00-7
- Registration number 01-2119475791-29
- 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)
- Product category
PC35 Washing and cleaning products (including solvent based products)
PC0 Other
- Process category PROC19 Manual activities involving hand contact
- 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)
- Application of the substance / the mixture
See our technical datasheet for application of this product.
Thinner for brush- and roller application of poly-urethane paints and varnishes
- 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.

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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 substance is classified and labelled according to the GB CLP regulation.
- Hazard pictograms



GHS02



GHS07

- Signal word Warning
- Hazard-determining components of labelling:
2-methoxy-1-methylethyl acetate
- Hazard statements
H226 Flammable liquid and vapour.
H336 May cause drowsiness or dizziness.
- 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.
- 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.

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SECTION 3: Composition/information on ingredients

- 3.1 Substances
- CAS No. Description
108-65-6 2-methoxy-1-methylethyl acetate
- Identification number(s)
- EC number: 203-603-9
- Index number: 607-195-00-7

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
Water with full jet
- 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
Keep away from ignition sources.
Ensure adequate ventilation
Mount respiratory protective device.
Wear protective equipment. Keep unprotected persons away.
- 6.2 Environmental precautions:
Prevent seepage into sewage system, workpits and cellars.

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- 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
Keep away from heat and direct sunlight.
Work only in fume cupboard.
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.
- 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:

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

- Regulatory information WEL: EH40/2020

- DNEL (Derived No Effect Level) voor professionals

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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· DNEL (Derived No Effect Level) for general audience

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)

· PNECs

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)

· 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

· Material of gloves

Butyl rubber, BR

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.

· 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.

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- For the permanent contact gloves made of the following materials are suitable:
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:
(recommended: at least protection index 2, corresponding > 30 minutes permeability time / Permeation according to EN 374)
chloroprene rubber (CR) - 0.5 mm thickness
nitrile rubber (NBR) - 0.4 mm thickness
- Eye/face protection



Tightly sealed goggles

- Body protection: Use protective suit.
- 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: Ester-like
- Odour threshold: Not determined
- Melting point/freezing point: Undetermined
- Boiling point or initial boiling point and boiling range: 146.4 °C
- Flammability: Flammable.
- Lower and upper explosion limit
- Lower: 1.5 Vol %
- Upper: 10.8 Vol %
- Flash point: 44 °C
- Auto-ignition temperature: 315 °C
- Decomposition temperature: Not determined
- pH: 4
- Viscosity:
- Kinematic viscosity: Not determined
- Dynamic at 20 °C: 1.2 mPas
- Solubility
- water at 20 °C: 220 g/l
- Partition coefficient n-octanol/water (log value): Not determined
- Vapour pressure at 20 °C: 3.37 hPa

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· Density and/or relative density	
· Density at 20 °C:	0.97 g/cm ³
· 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:	Not determined
· Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Solvent content:	
· Organic solvents:	100.0 %
· VOC content:	100.00 %
	VOC content:
	970.0 g/l / 8.10 lb/gal
· Solids content:	0.0 %
· Molecular weight	132.16 g/mol
· 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.

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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
Contact with acids releases flammable gases.
- 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 Void

- LD/LC50 values relevant for classification:

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)

- 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: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.

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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
 - Due to the distribution coefficient n-octanol/water an accumulation in organisms is not expected.
- 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 No further relevant information available.
- 12.5 Results of PBT and vPvB assessment
- PBT:
 - 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
- Additional ecological information:
- General notes:
 - Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water
 - Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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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SECTION 14: Transport information

14.1 UN number or ID number - ADR, IMDG, IATA	UN3272
14.2 UN proper shipping name - ADR - IMDG, IATA	3272 ESTERS, N.O.S. (2-methoxy-1-methylethyl acetate) ESTERS, N.O.S. (2-methoxy-1-methylethyl acetate)
14.3 Transport hazard class(es) - ADR	 Class 3 (F1) Flammable liquids. Label 3
IMDG, IATA	 Class 3 Flammable liquids. Label 3
14.4 Packing group - ADR, IMDG, IATA	III
14.5 Environmental hazards: - Marine pollutant:	No
14.6 Special precautions for user - Hazard identification number (Kemler code): - EMS Number: - Stowage Category	Warning: Flammable liquids. 30 F-E, S-D A
14.7 Maritime transport in bulk according to IMO instruments	Not applicable
- Transport/Additional information: - ADR - Limited quantities (LQ) - Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

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· Transport category	3
· Tunnel restriction code	D/E
· 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 3272 ESTERS, N.O.S. (2-METHOXY-1-METHYLETHYL ACETATE), 3, III

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 Substance is not 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

- 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.

- 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
 - Flam. Liq. 3: Flammable liquids - Category 3
 - STOT SE 3: Specific target organ toxicity (single exposure) - 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.