

Material Safety Data Sheet
According to 91/155 EEC

Printing date 19.03.2004

Reviewed on 19.11.2002



1 Identification of the substance/preparation and of the company/ undertaking

- Product details
- Trade name: Epifanes Poly-urethane Brushthinner
- Application of the substance / the preparation
Lacquer solvent/ Varnish thinner
Thinner for brush application of poly-urethane paints and varnishes
- Manufacturer/Supplier:
W.HEEREN & ZOON BV
Postbus 166
1430 AD Aalsmeer
tel. +31-297-360366
fax. +31-297-342078
- Further information obtainable from: Department Research & Development
- Information in case of emergency: See under Manufacturer/Supplier

2 Composition/information on ingredients

- Chemical characterization:
- CAS No. Description
108-65-6 2-methoxy-1-methylethyl acetate
- Identification number(s)
- EINECS Number: 203-603-9
- EU Number: 607-195-00-7
- Chemical characterization

- Dangerous components:

CAS: 108-65-6 EINECS: 203-603-9	2-methoxy-1-methylethyl acetate  Xi; R 10-36	99.6%
CAS: 70657-70-4 EINECS: 274-724-2	2-methoxypropyl acetate  T; R 61-10-37	0.4%

3 Hazards identification

- Hazard description:



Xi Irritant

- Information concerning particular hazards for human and environment:
R 10 Flammable.
R 36 Irritating to eyes.

4 First-aid measures

- After inhalation:
Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- 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.

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5 Fire-fighting measures

- 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
- Protective equipment: No special measures required.

6 Accidental release measures

- Person-related safety precautions:
Keep away from ignition sources.
Ensure adequate ventilation
- Measures for environmental protection:
Do not allow to enter sewers/ surface or ground water.
- Measures for cleaning/collecting:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.

7 Handling and storage

- Handling:
- Information for safe handling:
Keep away from heat and direct sunlight.
Work only in fume cupboard.
- Information about fire - and explosion protection:
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
- 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:
Protect from heat and direct sunlight.

8 Exposure controls/personal protection

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

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

OES	Short-term value: 548 mg/m ³ , 100 ppm Long-term value: 274 mg/m ³ , 50 ppm IOELV, Sk
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- Additional information:
The lists valid during the making were used as basis.
- Personal protective equipment:
- General protective and hygienic measures:
Avoid contact with the eyes and skin.
- Respiratory protection:
Suitable respiratory protective device recommended.
- Protection of hands:
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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Preventive skin protection by use of skin-protecting agents is recommended.

- 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.
- 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.
- Eye protection:



Tightly sealed goggles

- Body protection: Use protective suit.

9 Physical and chemical properties

• General Information

Form:	Fluid
Colour:	Colourless
Odour:	Ester-like

• Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	146°C

• Flash point: 42°C

• Ignition temperature: 315°C

• Danger of explosion: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

• Explosion limits:

Lower:	1.5 Vol %
Upper:	10.8 Vol %

• Vapour pressure at 20°C: 3.37 hPa

• Density at 20°C: 0.9668 g/cm³

• Solubility in / Miscibility with

water at 20°C:	190 g/l
Organic solvents:	99.6 %

10 Stability and reactivity

- Thermal decomposition / conditions to be avoided:
No decomposition if used according to specifications.
- Dangerous reactions Contact with acids releases flammable gases.
- Dangerous decomposition products:
No dangerous decomposition products known.

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11 Toxicological information

• Acute toxicity:

• LD/LC50 values relevant for classification:

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

Oral	LD50	8532 mg/kg (rat)
Inhalative	LC50/4 h	35.7 mg/l (rat)

• Primary irritant effect:

• on the skin: No irritant effect.

• on the eye: Irritating effect.

• Sensitization:

Sensitizing effect through inhalation is possible by prolonged exposure.

12 Ecological information

• Behaviour in environmental systems:

• Mobility and bioaccumulation potential:

Due to the distribution coefficient n-octanol/water an accumulation in organisms is not expected.

• 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.

13 Disposal considerations

• Product:

• 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.

14 Transport information

• Land transport ADR/RID (cross-border)



• ADR/RID class: 3 F1 Flammable liquids.

• Danger code (Kemler): 30

• UN-Number: 3272

• Packaging group: III

• Hazard label 3

• Description of goods: 3272 ESTERS, N.O.S. (2-methoxy-1-methylethyl acetate, 2-methoxypropyl acetate)

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• Maritime transport IMDG:



- IMDG Class: 3
- UN Number: 3272
- Label: 3
- Packaging group: III
- EMS Number: F-E,S-D
- Marine pollutant: No
- Proper shipping name: ESTERS, N.O.S. (2-methoxy-1-methylethyl acetate, 2-methoxypropyl acetate)

• Air transport ICAO-TI and IATA-DGR:



- ICAO/IATA Class: 3
- UN/ID Number: 3272
- Label: 3
- Packaging group: III
- Proper shipping name: ESTERS, N.O.S. (2-methoxy-1-methylethyl acetate, 2-methoxypropyl acetate)

15 Regulatory information

- Labelling according to EU guidelines:
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.
 - Code letter and hazard designation of product:
Xi Irritant
 - Risk phrases:
10 Flammable.
36 Irritating to eyes.
 - Safety phrases:
2 Keep out of the reach of children.
7 Keep container tightly closed.
16 Keep away from sources of ignition - No smoking.
23 Do not breathe fumes/aerosol.
 - National regulations:
 - Technical instructions (air):
- | Class | Share in % |
|-------|------------|
| III | 99.6 |
- Waterhazard class:
Water hazard class 1 (Self-assessment): slightly hazardous for water.

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 R-phrases
10 Flammable.
36 Irritating to eyes.
37 Irritating to respiratory system.

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61 May cause harm to the unborn child.

- Department issuing MSDS: Department Research & Development
- Contact: T.J.H.M. van Steenes

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