

Material Safety Data Sheet
According to 91/155 EEC

Printing date 19.03.2004

Reviewed on 17.01.2003

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






- Product details
- Trade name: Epifanes Poly-urethane Spraythinner
- Application of the substance / the preparation
Lacquer solvent/ Varnish thinner
Thinner for spray 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
- Description:
Solvent mixture
Mixture of organic solvents.

- Dangerous components:

CAS: 78-93-3 EINECS: 201-159-0	butanone  Xi,  F; R 11-36-66-67	40.0%
CAS: 108-65-6 EINECS: 203-603-9	2-methoxy-1-methylethyl acetate  Xi; R 10-36	39.84%
CAS: 1330-20-7 EINECS: 215-535-7	xylene  Xn; R 10-20/21-38	10.0%
CAS: 123-86-4 EINECS: 204-658-1	n-butyl acetate R 10-66-67	10.0%
CAS: 70657-70-4 EINECS: 274-724-2	2-methoxypropyl acetate  T; R 61-10-37	0.16%

- Additional information:
For the wording of the listed risk phrases refer to section 16.

3 Hazards identification

- Hazard description:



Xi Irritant

- Information concerning particular hazards for human and environment:
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
R 10 Flammable.
R 36 Irritating to eyes.
- Classification system:
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

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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. Then consult a doctor.
- After swallowing: Call for a doctor immediately.

5 Fire-fighting measures

- Suitable extinguishing agents:
CO₂, sand, extinguishing powder. Do not use water.
- For safety reasons unsuitable extinguishing agents:
Water
Water with full jet
- Protective equipment:
Wear fully protective suit.
Do not inhale explosion gases or combustion gases.

6 Accidental release measures

- Person-related safety precautions:
Wear protective clothing.
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).
Do not flush with water or aqueous cleansing agents

7 Handling and storage

- Handling:
• Information for safe handling: 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:
Store away from water.
- 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.

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• Ingredients with limit values that require monitoring at the workplace:	
78-15-13 Butanone	
OES	Short-term value: 899 mg/m ³ , 300 ppm Long-term value: 600 mg/m ³ , 200 ppm IOELV, Sk,
108-65-6 2-methoxy-1-methylethyl acetate	
OES	Short-term value: 548 mg/m ³ , 100 ppm Long-term value: 274 mg/m ³ , 50 ppm IOELV, Sk
1330-20-7 xylene	
OES	Short-term value: 441 mg/m ³ , 100 ppm Long-term value: 220 mg/m ³ , 50 ppm Sk
123-86-4 n-butyl acetate	
OES	Short-term value: 966 mg/m ³ , 200 ppm Long-term value: 724 mg/m ³ , 150 ppm

- Additional information:
The lists valid during the making were used as basis.
- Personal protective equipment:
- General protective and hygienic measures:
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Avoid contact with the eyes.
Avoid contact with the eyes and skin.
- Respiratory protection:
Suitable respiratory protective device recommended.
- Protection of hands:
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.
- 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.
- Eye protection: Safety glasses

9 Physical and chemical properties

• General Information	
Form:	Fluid
Colour:	According to product specification
Odour:	Characteristic
• Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	124°C
• Flash point:	> 23°C

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• Ignition temperature:	315°C
• Self-igniting:	Product is not selfigniting.
• Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
• Explosion limits:	
Lower:	1.1 Vol %
Upper:	11.5 Vol %
• Vapour pressure at 20°C:	105 hPa
• Density:	Not determined.
• Solubility in / Miscibility with water:	Not miscible or difficult to mix.
• Solvent content:	
Organic solvents:	100.0 %
• Solids content:	0.0 %

10 Stability and reactivity

- Thermal decomposition / conditions to be avoided:
No decomposition if used according to specifications.
- Dangerous reactions No dangerous reactions known.
- Dangerous decomposition products:
No dangerous decomposition products known.

11 Toxicological information

- Acute toxicity:

- LD/LC50 values relevant for classification:

1330-20-7 xylene

Oral	LD50	4300 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rabbit)

- Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: Strong caustic effect.
- Sensitization: No sensitizing effects known.
- Additional toxicological information:
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
Irritant

12 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.

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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: 1263
- Packaging group: III
- Hazard label 3
- Description of goods: 1263 PAINT RELATED MATERIAL (not viscous)

- Maritime transport IMDG:



- IMDG Class: 3
- UN Number: 1263
- Label 3
- Packaging group: III
- EMS Number: F-E,S-E
- Marine pollutant: No
- Proper shipping name: PAINT RELATED MATERIAL

- Air transport ICAO-TI and IATA-DGR:



- ICAO/IATA Class: 3
- UN/ID Number: 1263
- Label 3
- Packaging group: III
- Proper shipping name: PAINT RELATED MATERIAL

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

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- Hazard-determining components of labelling:
butanone
2-methoxy-1-methylethyl acetate
 - Risk phrases:
10 Flammable.
36 Irritating to eyes.
 - Safety phrases:
2 Keep out of the reach of children.
16 Keep away from sources of ignition - No smoking.
25 Avoid contact with eyes.
46 If swallowed, seek medical advice immediately and show this container or label.
 - National regulations:
 - Technical instructions (air):
- | Class | Share in % |
|-------|------------|
| II | 10.0 |
| III | 89.8 |
- Waterhazard class:
Water hazard class 2 (Self-assessment): 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.
11 Highly flammable.
20/21 Harmful by inhalation and in contact with skin.
36 Irritating to eyes.
37 Irritating to respiratory system.
38 Irritating to skin.
61 May cause harm to the unborn child.
66 Repeated exposure may cause skin dryness or cracking.
67 Vapours may cause drowsiness and dizziness.
- Department issuing MSDS: Department Research & Development
- Contact: T.J.H.M. van Steenes