

Material Safety Data Sheet

According to 91/155 EEC

Printing date 19.03.2004

Reviewed on 28.05.2003

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

- Product details
- Trade name: Epifanes Mono-urethane all colours
- Application of the substance / the preparation
Paint
One component high gloss finish/paint
- 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:
Resin mixture
Solvent mixture with pigment additives

• Dangerous components:

CAS: 64742-48-9 EINECS: 265-150-3	Naphtha (petroleum), hydrotreated heavy ☒ Xn; R 10-65-66	23.152%
CAS: 1330-20-7 EINECS: 215-535-7	xylene ☒ Xn; R 10-20/21-38	1.9%

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

3 Hazards identification

- Hazard description: Not applicable.
- 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 66 Repeated exposure may cause skin dryness or cracking.
- Classification system:
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

4 First-aid measures

- After inhalation:
Supply fresh air; consult doctor in case of complaints.
- After skin contact:
Immediately wash with water and soap and rinse thoroughly.
- After eye contact:
Rinse opened eye for several minutes under running water.
- After swallowing: If symptoms persist consult doctor.
- Information for doctor:
- The following symptoms may occur:
Dizziness
Breathing difficulty

(Contd. on page 2)

Material Safety Data Sheet
According to 91/155 EEC

Printing date 19.03.2004

Reviewed on 28.05.2003

Trade name: Epifanes Mono-urethane all colours

(Contd. of page 1)

- Treatment
If swallowed, gastric irrigation with added, activated carbon.

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:
Ensure adequate ventilation
Keep away from ignition sources.
- 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).
- Additional information:
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.

7 Handling and storage

- Handling:
• Information for safe handling: No special measures required.
- 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: Store in dry conditions.

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:
Xylene

OES	Short-term value: 441 mg/m ³ , 100 ppm
	Long-term value: 220 mg/m ³ , 50 ppm
	Sk

- Additional information:
The lists valid during the making were used as basis.
- Personal protective equipment:
- General protective and hygienic measures:
Wash hands before breaks and at the end of work.
- Respiratory protection: Not required.

(Contd. on page 3)

Material Safety Data Sheet
According to 91/155 EEC

Printing date 19.03.2004

Reviewed on 28.05.2003

Trade name: Epifanes Mono-urethane all colours

(Contd. of page 2)

- Protection of hands:



Protective gloves

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.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- 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 in work areas without heightened risk of injury (e.g. Laboratory) gloves made of the following material are suitable:

Synthetic rubber gloves

- For the permanent contact gloves made of the following materials are suitable:

Synthetic rubber gloves

- For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:

Natural rubber, NR

- Not suitable are gloves made of the following materials:

Strong material gloves

Leather gloves

- Eye protection: Safety glasses

- Body protection: Solvent resistant protective clothing

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: Undetermined.

- Flash point: >42°C

- Ignition temperature: 240°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: 0.6 Vol %

(Contd. on page 4)

Material Safety Data Sheet
According to 91/155 EEC

Printing date 19.03.2004

Reviewed on 28.05.2003

Trade name: Epifanes Mono-urethane all colours

(Contd. of page 3)

Upper:	7.0 Vol %
• Vapour pressure at 20°C:	1 hPa
• Density at 20°C:	+/-1.0 1.24 g/cm ³
• Solubility in / Miscibility with water:	Insoluble.
• Viscosity: Kinematic at 20°C:	+/-1.0 35 s (ISO 6 mm)
• Solvent content: Organic solvents:	+/-1.0 26.5 %
• Solids content:	+/-1.0 73.5 % (VB% 1h 150C)

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:

64742-48-9 Naphtha (petroleum), hydrotreated heavy

Oral LD50 >5000 mg/kg (rat)

Dermal LD50 >3000 mg/kg (rab)

64742-95-6 Solvent naphtha (petroleum), light arom.

Oral LD50 >6800 mg/kg (rat)

Dermal LD50 >3400 mg/kg (rab)

Inhalative LC50/4 h >10.2 mg/l (rat)

- Primary irritant effect:
- on the skin: No irritant effect.
- Sensitization: No sensitizing effects known.

12 Ecological information

- Behaviour in environmental systems:
- Mobility and bioaccumulation potential:
Not worth-mentioning accumulating in organisms
- Ecotoxicological effects:
- Remark: Harmless to algae up to the tested concentration.
- 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.

(Contd. on page 5)

Material Safety Data Sheet
According to 91/155 EEC

Printing date 19.03.2004

Reviewed on 28.05.2003

Trade name: Epifanes Mono-urethane all colours

(Contd. of page 4)

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.
- Recommended cleansing agents: Solvent naphtha

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 (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

- Air transport ICAO-TI and IATA-DGR:



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

15 Regulatory information

- Labelling according to EU guidelines:
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.
- Hazard-determining components of labelling:
Naphtha (petroleum), hydrotreated heavy

(Contd. on page 6)

Material Safety Data Sheet
According to 91/155 EEC

Printing date 19.03.2004

Reviewed on 28.05.2003

Trade name: Epifanes Mono-urethane all colours

(Contd. of page 5)

- Risk phrases:
 - 10 Flammable.
 - 66 Repeated exposure may cause skin dryness or cracking.
- Safety phrases:
 - 2 Keep out of the reach of children.
 - 7 Keep container tightly closed.
 - 29 Do not empty into drains.
 - 46 If swallowed, seek medical advice immediately and show this container or label.
- Special labelling of certain preparations:
 - Contains 2-butanone oxime. May produce an allergic reaction.
- National regulations:
- Technical instructions (air):

Class	Share in %
II	2.4
III	0.3
- 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.
 - 20/21 Harmful by inhalation and in contact with skin.
 - 38 Irritating to skin.
 - 65 Harmful: may cause lung damage if swallowed.
 - 66 Repeated exposure may cause skin dryness or cracking.
- Department issuing MSDS: Department Research & Development
- Contact: T.J.H.M. van Steenes