

**Material Safety Data Sheet**  
According to 91/155 EEC

Printing date 19.03.2004

Reviewed on 18.11.2002




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

- Product details
- Trade name: Epifanes Brushthinner for Paint and Varnish
- Application of the substance / the preparation  
Solvents  
Brushthinner for one component 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:  
Environment protection department.  
Department Research & Development
- Information in case of emergency: See under Manufacturer/Supplier

### 2 Composition/information on ingredients

- Chemical characterization:
- CAS No. Description  
64742-48-9 Naphtha (petroleum), hydrotreated heavy
- Identification number(s)
- EINECS Number: 265-150-3
- EU Number: 649-327-00-6
- Chemical characterization
- Description: Mixture of organic solvents

- Dangerous components:

CAS: 64742-48-9 EINECS: 265-150-3	Naphtha (petroleum), hydrotreated heavy  Xn; R 10-65-66	100%
CAS: 71-43-2 EINECS: 200-753-7	benzene  T,  F; R 45-11-48/23/24/25	<1ppm%

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

### 3 Hazards identification

- Hazard description:



Xn Harmful

- 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 65 Harmful: may cause lung damage if swallowed.  
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.

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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.
- After swallowing:  
Do not induce vomiting; call for medical help immediately.

**5 Fire-fighting measures**

- Suitable extinguishing agents:  
CO<sub>2</sub>, sand, extinguishing powder. Do not use water.
- For safety reasons unsuitable extinguishing agents:  
Water  
Water with full jet
- Protective equipment: Wear fully protective suit.

**6 Accidental release measures**

- Person-related safety precautions: 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.  
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.
- 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:  
Not required.
- Additional information:  
The lists valid during the making were used as basis.

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- Personal protective equipment:
- General protective and hygienic measures:  
Avoid contact with the eyes and skin.  
Wash hands before breaks and at the end of work.
- Respiratory protection:  
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
- Protection of hands:



## Protective gloves

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.
- 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:	155°C

## • Flash point: &gt; 41°C (NFEN ISO2719)

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

## • Explosion limits:

Lower:	0.6 Vol %
Upper:	7.0 Vol %

## • Vapour pressure at 20°C: 1 hPa

• Density at 20°C: 0.78 g/cm<sup>3</sup>

## • Solubility in / Miscibility with water: Insoluble.

• Viscosity:  
Dynamic at 20°C: 1.3 mPa.s

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Organic solvents: 100.0 %

**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:  
Partial burning or pyrolytic develops soot and gases CO, CO<sub>2</sub>,  
different hydrocarbons, aldehydes etc. Which could be toxic.  
Breathing in could be dangerous.

**11 Toxicological information**

- Acute toxicity:

- LD/LC50 values relevant for classification:

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

Oral LD50 &gt;5000 mg/kg (rat)

Dermal LD50 &gt;3000 mg/kg (rab)

71-43-2 benzene

Oral LD50 4894 mg/kg (rat)

Dermal LD50 48 mg/kg (mouse)

Inhalative LC50/4 h 9980 mg/l (mouse)

- Primary irritant effect:
  - on the skin: No irritant effect.
  - on the eye: Irritating effect.
- Sensitization:  
Sensitizing effect by skin contact is possible by prolonged exposure.
- 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:

**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, even in small quantities.

**13 Disposal considerations**

- Product:
- Recommendation  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.

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- 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: 3295
- Packaging group: III
- Hazard label 3
- Description of goods: 3295 HYDROCARBONS, LIQUID, N.O.S. (Naphtha (petroleum), hydrotreated heavy, 1,2,4-trimethylbenzene)

- Maritime transport IMDG:



- IMDG Class: 3
- UN Number: 3295
- Label 3
- Packaging group: III
- EMS Number: F-E,S-D
- Proper shipping name: TURPENTINE SUBSTITUTE

- Air transport ICAO-TI and IATA-DGR:



- ICAO/IATA Class: 3
- UN/ID Number: 3295
- Label 3
- Packaging group: III
- Proper shipping name: TURPENTINE SUBSTITUTE

**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:  
Xn Harmful
- Hazard-determining components of labelling:  
Naphtha (petroleum), hydrotreated heavy benzene
- Risk phrases:  
10 Flammable.

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65 Harmful: may cause lung damage if swallowed.

66 Repeated exposure may cause skin dryness or cracking.

• Safety phrases:

24 Avoid contact with skin.

43 In case of fire, use sand, carbon dioxide or powdered extinguishing agent. Never use water.

46 If swallowed, seek medical advice immediately and show this container or label.

51 Use only in well-ventilated areas.

• National regulations:

• 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.

45 May cause cancer.

48/23/24/25 Toxic: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.

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