

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

Printing date 19.03.2004

Reviewed on 21.02.2003

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

- Product details
- Trade name: Epifanes Thinner for PP Varnish extra
- Application of the substance / the preparation  
Thinner, Diluent  
Thinner for brush and spray application of Epifanes PP Varnish Extra
- 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  
67-64-1 acetone
- Identification number(s)
- EINECS Number: 200-662-2
- EU Number: 606-001-00-8

### 3 Hazards identification

- Hazard description:



Xi Irritant  
F Highly flammable

- Information concerning particular hazards for human and environment:  
At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.  
R 11 Highly flammable.  
R 36 Irritating to eyes.  
R 66 Repeated exposure may cause skin dryness or cracking.  
R 67 Vapours may cause drowsiness and dizziness.

### 4 First-aid measures

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

### 5 Fire-fighting measures

- Suitable extinguishing agents:  
CO<sub>2</sub>, sand, extinguishing powder. Do not use water.

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- For safety reasons unsuitable extinguishing agents:  
Water with full jet  
Water
- Protective equipment:  
Wear fully protective suit.  
Mouth respiratory protective device.

**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.
- Information about fire - and explosion protection:  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.  
Fumes can combine with air to form an explosive mixture.
- Storage:
- Requirements to be met by storerooms and receptacles:  
Store in a cool location.  
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.  
Store in cool, dry conditions in well sealed receptacles.

**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:

	acetone
OES	Short-term value: 3620 mg/m <sup>3</sup> , 1500 ppm Long-term value: 1210 mg/m <sup>3</sup> , 500 ppm
	IOELV

- 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 and skin.
- Respiratory protection:  
Use suitable respiratory protective device in case of insufficient ventilation.

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- Protection of hands:  
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.
- Penetration time of glove material  
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- Eye protection:



Tightly sealed goggles

### 9 Physical and chemical properties

#### • General Information

Form:	Fluid
Colour:	Colourless
Odour:	Characteristic

#### • Change in condition

Melting point/Melting range:	ca. -95.4°C
Boiling point/Boiling range:	56°C

• Flash point: -19°C (DIN 51755)

• Ignition temperature: 540°C (DIN 51794)

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

#### • Explosion limits:

Lower:	2.5 Vol %
Upper:	13.0 Vol %

• Vapour pressure at 20°C: 233 hPa

• Density at 20°C: 0.791 g/cm<sup>3</sup> (DIN 51757)

• Solubility in / Miscibility with water: Fully miscible.

#### • Viscosity:

Dynamic at 20°C:	0.33 mPas (DIN 51562)
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:  
No dangerous decomposition products known.

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**11 Toxicological information**

## • Acute toxicity:

## • LD/LC50 values relevant for classification:

67-64-1 acetone

Oral	LD50	5800 mg/kg (rat)
Dermal	LD50	20000 mg/kg (rabbit)

## • Primary irritant effect:

• on the skin: Irritant to skin and mucous membranes.

• on the eye: Irritating effect.

## • Sensitization:

Sensitizing effect through inhalation is possible by prolonged exposure.

Sensitizing effect by skin contact is possible by prolonged exposure.

**12 Ecological information**

## • General notes:

Water hazard class 1 (German Regulation) (Assessment by list): slightly 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.

## • Uncleaned packaging:

## • Recommendation:

Disposal must be made according to official regulations.

**14 Transport information**

## • Land transport ADR/RID (cross-border)



• ADR/RID class: 3 3B Flammable liquids.

• Danger code (Kemler): 33

• UN-Number: 1090

• Packaging group: II

• Hazard label 3

• Description of goods: 1090 ACETONE, solution

## • Maritime transport IMDG:



• IMDG Class: 3

• UN Number: 1090

• Label 3

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- Packaging group: II
- EMS Number: F-E,S-D
- Marine pollutant: No
- Proper shipping name: ACETONE, solution

- Air transport ICAO-TI and IATA-DGR:



- ICAO/IATA Class: 3
- UN/ID Number: 1090
- Label: 3
- Packaging group: II
- Proper shipping name: ACETONE, solution

### 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  
F Highly flammable
- Risk phrases:  
11 Highly flammable.  
36 Irritating to eyes.  
66 Repeated exposure may cause skin dryness or cracking.  
67 Vapours may cause drowsiness and dizziness.
- Safety phrases:  
2 Keep out of the reach of children.  
9 Keep container in a well-ventilated place.  
16 Keep away from sources of ignition - No smoking.  
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- National regulations:
- Technical instructions (air):
 

Class	Share in %
III	100.0
- Waterhazard class:  
Water hazard class 1 (Assessment by list): 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.

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