

Material Safety Data Sheet
According to 91/155 EEC

Printing date 19.03.2004

Reviewed on 05.03.2003








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

- Product details
- Trade name: Epifanes Foul-Away
- Application of the substance / the preparation
Paint
Copper, tin and biocide-free selfpolishing underwaterpaint
- Manufacturer/Supplier:
W.HEEREN & ZOON BV
Postbus 166
1430 AD Aalsmeer
tel. +31-297-360366
fax. +31-297-342078
- Further information obtainable from: Reseach & development department
- Information in case of emergency: See under Manufacturer/Supplier

2 Composition/information on ingredients

- Chemical characterization
- Description:
Solvent mixture with pigment additives
Resin mixture with colouring agents

- Dangerous components:

CAS: 8050-09-7 EINECS: 232-475-7	Rosin  Xi; R 43	17.931%
CAS: 1330-20-7 EINECS: 215-535-7	xylene  Xn; R 10-20/21-38	8.858%
CAS: 108-88-3 EINECS: 203-625-9	toluene  Xn,  F; R 11-20	3.126%
CAS: 64742-48-9 EINECS: 265-150-3	Naphtha (petroleum), hydrotreated heavy  Xn; R 10-65-66	0.843%
CAS: 1317-36-8 EINECS: 215-267-0	lead monoxide  T,  N; R 61-62-20/22-33-50/53	0.068%

- 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 20/21 Harmful by inhalation and in contact with skin.
R 43 May cause sensitisation by skin contact.
- 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

- General information:
Immediately remove any clothing soiled by the product.
- 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. Then consult a doctor.
- After swallowing:
Do not induce vomiting; call for medical help immediately.
- Information for doctor:
- Treatment
If swallowed, gastric irrigation with added, activated carbon.

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
- Special hazards caused by the substance, its products of combustion or resulting gases:
Formation of toxic gases is possible during heating or in case of fire.
- Protective equipment: Wear fully protective suit.
- Additional information
Collect contaminated fire fighting water separately. It must not enter the sewage system.

6 Accidental release measures

- Person-related safety precautions: Ensure adequate ventilation
- Measures for environmental protection:
Inform respective authorities in case of seepage into water course or sewage system.
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).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents
- 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:
Ensure good ventilation/exhaustion at the workplace.
- Information about fire - and explosion protection:
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

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- 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

Y935P20C9: xylene	
OES	Short-term value: 441 mg/m ³ , 100 ppm Long-term value: 220 mg/m ³ , 50 ppm Sk
108-88-3 toluene	
OES	Short-term value: 574 mg/m ³ , 150 ppm Long-term value: 191 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:
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
- Respiratory protection:
Suitable respiratory protective device recommended.
- 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 trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- Eye protection: Safety glasses
- Body protection: Use protective suit.

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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:	>120°C

• Flash point: >25°C

• Ignition temperature: niet bepaald °C

• Self-igniting: Product is not selfigniting.

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

• Density at 20°C: 1.69 g/cm³ (ISO 2811)

• Solubility in / Miscibility with water: Insoluble.

• Viscosity:
Dynamic at 20°C: 5300 mPas• Solvent content:
Organic solvents: 21.3 %
Water: 0.1 %

• Solids content: 78.6 % (VB% 1h150 C)

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)
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Dermal	LD50	2000 mg/kg (rabbit)
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64742-48-9 Naphtha (petroleum), hydrotreated heavy

Oral	LD50	>5000 mg/kg (rat)
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Dermal	LD50	>3000 mg/kg (rab)
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108-88-3 toluene

Oral	LD50	5000 mg/kg (rat)
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Dermal	LD50	12124 mg/kg (rabbit)
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Inhalative	LC50/4 h	5320 mg/l (mouse)
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- Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: Strong irritant with the danger of severe eye injury.

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- Sensitization: Sensitization possible through skin contact.
- 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
Vapours have narcotic effect.

12 Ecological information

- Ecotoxicological effects:
- Remark: Harmful to algae
- 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.
Harmful to aquatic organisms

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, mixture (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

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Trade name: Epifanes Foul-Away

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- Proper shipping name: PAINT, mixture
- Air transport ICAO-TI and IATA-DGR:



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

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:
Rosin
- Risk phrases:
 - 10 Flammable.
 - 20/21 Harmful by inhalation and in contact with skin.
 - 43 May cause sensitisation by skin contact.
- Safety phrases:
 - 2 Keep out of the reach of children.
 - 16 Keep away from sources of ignition - No smoking.
 - 23 Do not breathe fumes/aerosol.
 - 36/37 Wear suitable protective clothing and gloves.
 - 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:
- Technical instructions (air):

Class	Share in %
II	21.0
III	0.6
- 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 Harmful by inhalation.

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- 20/21 Harmful by inhalation and in contact with skin.
- 20/22 Harmful by inhalation and if swallowed.
- 33 Danger of cumulative effects.
- 38 Irritating to skin.
- 43 May cause sensitisation by skin contact.
- 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 61 May cause harm to the unborn child.
- 62 Possible risk of impaired fertility.
- 65 Harmful: may cause lung damage if swallowed.
- 66 Repeated exposure may cause skin dryness or cracking.

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