

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

- Product details
- Trade name: Epifanes Foul-Away
- Application of the substance / the preparation Underwater coating
- Manufacturer/Supplier:
 W.Heeren & Zoon BV
 P.O. Box 166
 Netherlands
 Phone:(++31)297 360366
 Fax :(++31)297 342078
- Further information obtainable from: Environment protection department.

2 Composition/information on ingredients

- Chemical characterization
- Description: Mixture of substances listed below with nonhazardous additions.

• Dangerous components:

CAS: 1314-13-2 EINECS: 215-222-5	zinc oxide N; R 50/53	25-50%
CAS: 8050-09-7 EINECS: 232-475-7	Rosin Xi; R 43	10-25%
CAS: 64742-95-6 EINECS: 265-199-0	Solvent naphtha (petroleum), light arom. Xn, Xi, N; R 10-37-51/53-65-66	10-25%
CAS: 1330-20-7 EINECS: 215-535-7	xylene Xn, Xi; R 10-20/21-38	2.5-10%
CAS: 64742-48-9 EINECS: 265-150-3	Naphtha (petroleum), hydrotreated heavy Xn; R 10-65-66	≤ 2.5%

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

3 Hazards identification

- Hazard description:
 Xi Irritant
 N Dangerous for the environment
- 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.
 At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.
 R 10 Flammable.
 R 43 May cause sensitisation by skin contact.
 R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 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.

Printing date 14.03.2007

Reviewed on 14.03.2007

Trade name: Epifanes Foul-Away

(Contd. of page 1)

4 First-aid measures

- After inhalation:
Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.
- 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.

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:
Wear protective equipment. Keep unprotected persons away.
- 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).
Ensure adequate ventilation.

7 Handling and storage

- Handling:
- Information for safe handling:
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- 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: No special requirements.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep container tightly sealed.

8 Exposure controls/personal protection

- Additional information about design of technical facilities:
No further data; see item 7.

(Contd. on page 3)

Trade name: Epifanes Foul-Away

(Contd. of page 2)

• Ingredients with limit values that require monitoring at the workplace:

8050-09-7 Rosin

WEL	Short-term value: 0.15 mg/m ³ Long-term value: 0.05 mg/m ³ Sen
-----	--

1330-20-7 xylene

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

1306-19-0 cadmium oxide (nonpyrophoric)

WEL	Short-term value: 0.05 mg/m ³ Long-term value: 0.025 mg/m ³ as Cd; fume; Carc
-----	---

- Additional information: The lists valid during the making were used as basis.
- Personal protective equipment:
- General protective and hygienic measures:
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Do not inhale gases / fumes / aerosols.
- 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
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: Tightly sealed goggles

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

(Contd. on page 4)

Trade name: Epifanes Foul-Away

(Contd. of page 3)

• Flash point:	41°C
• Ignition temperature:	450°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:	0.7 Vol %
Upper:	7.5 Vol %
• Vapour pressure at 20°C:	5 hPa
• Density at 20°C:	1.69 g/cm ³
• Solubility in / Miscibility with water:	Not miscible or difficult to mix.
• Viscosity:	
Dynamic at 20°C:	5300 mPas
• Solvent content:	
Organic solvents:	21.3 %
Water:	0.1 %
VOC content:	21.3 %
	377.2 g/l / 3.15 lb/gl
• Solids content:	78.6 %

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:		
1314-13-2 zinc oxide		
Oral	LD50	7950 mg/kg (mouse)
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)
1330-20-7 xylene		
Oral	LD50	4300 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rabbit)
64742-48-9 Naphtha (petroleum), hydrotreated heavy		
Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	>3000 mg/kg (rab)

(Contd. on page 5)

Printing date 14.03.2007

Reviewed on 14.03.2007

Trade name: Epifanes Foul-Away

(Contd. of page 4)

- Primary irritant effect:
 - on the skin: No irritant effect.
 - on the eye: No irritating effect.
- 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

12 Ecological information

- Ecotoxicological effects:
 - Remark: Very toxic for fish
- 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.
Also poisonous for fish and plankton in water bodies.
Very toxic for 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: 9 Miscellaneous dangerous substances and articles.
 - Danger code (Kemler): 90
 - UN-Number: 3082
 - Packaging group: III
 - Hazard label 9
 - Description of goods: 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Solvent naphtha (petroleum), light arom., zinc oxide)
- Maritime transport IMDG:
 - IMDG Class: -
 - Marine pollutant: No
- Air transport ICAO-TI and IATA-DGR:
 - ICAO/IATA Class: 3
 - UN/ID Number: 1263
 - Label 3
 - Packaging group: III
 - Proper shipping name: PAINT

GB

(Contd. on page 6)

Printing date 14.03.2007

Reviewed on 14.03.2007

Trade name: Epifanes Foul-Away

(Contd. of page 5)

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
N Dangerous for the environment

- Hazard-determining components of labelling:
Rosin
- Risk phrases:
10 Flammable.
43 May cause sensitisation by skin contact.
50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
66 Repeated exposure may cause skin dryness or cracking.
- Safety phrases:
2 Keep out of the reach of children.
7 Keep container tightly closed.
23 Do not breathe fumes/aerosol.
24/25 Avoid contact with skin and eyes.
37 Wear suitable gloves.
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 %
NK	10-25
- 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.
37 Irritating to respiratory system.
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.
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
65 Harmful: may cause lung damage if swallowed.
66 Repeated exposure may cause skin dryness or cracking.
- Department issuing MSDS: Environment protection department.
- Contact: J.J. van Dijk
- * Data compared to the previous version altered.