

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: Werdol Silverpaint Medium
- Application of the substance / the preparation
Paint
Conservating bituminous underwaterpaint
- 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: 64742-95-6 EINECS: 265-199-0	Solvent naphtha (petroleum), light arom. Xn, N; R 10-37-51/53-65-66	30.389%
CAS: 64742-48-9 EINECS: 265-150-3	Naphtha (petroleum), hydrotreated heavy Xn; R 10-65-66	11.364%
CAS: 1330-20-7 EINECS: 215-535-7	xylene Xn; R 10-20/21-38	1.942%

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

3 Hazards identification

- Hazard description:



Xn Harmful
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.
Has a narcotizing effect.
R 10 Flammable.
R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 66 Repeated exposure may cause skin dryness or cracking.
R 67 Vapours may cause drowsiness and dizziness.
- 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.
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. Then consult a doctor.
- After swallowing: Seek medical treatment.

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
- 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).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents

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.
- Storage:
• Requirements to be met by storerooms and receptacles:
Store only in the original receptacle.
- Information about storage in one common storage facility:
Store away from oxidizing agents.
- 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.

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• Ingredients with limit values that require monitoring at the workplace:	
346936	Magnesite
OES	Long-term value: 10* 4** mg/m ³ *total inhalable dust **respirable dust
1330-20-7 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:
Keep away from foodstuffs, beverages and feed.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
- Respiratory protection:
Suitable respiratory protective device recommended.
- 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.

- 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

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:	> 41°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.

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• Explosion limits:	
Lower:	0.6 Vol %
Upper:	7.5 Vol %
• Vapour pressure at 20°C:	5 hPa
• Density at 20°C:	1.08 g/cm ³
• Solubility in / Miscibility with water:	Insoluble.
• Viscosity:	
Kinematic at 20°C:	85 s (DIN 53211/4)
• Solvent content:	
Organic solvents:	40.0 %
• Solids content:	60.0 % (VB% 1h150 C)

10 Stability and reactivity

- Thermal decomposition / conditions to be avoided:
No decomposition if used and stored according to specifications.
- Dangerous reactions Reacts with light alloys to form hydrogen.
- Dangerous decomposition products: Hydrogen

11 Toxicological information

- Acute toxicity:

- LD/LC50 values relevant for classification:

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)

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

Oral LD50 >5000 mg/kg (rat)

Dermal LD50 >3000 mg/kg (rab)

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

- Ecotoxicological effects:
- Remark: 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.

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Also poisonous for fish and plankton in water bodies.

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 FT1 Flammable liquids.
- UN-Number: 1263
- Packaging group: III
- Hazard label 3
- Description of goods: 1263 PAINT

- 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.

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- Code letter and hazard designation of product:
Xn Harmful
N Dangerous for the environment
 - Hazard-determining components of labelling:
Solvent naphtha (petroleum), light arom.
Naphtha (petroleum), hydrotreated heavy
 - Risk phrases:
10 Flammable.
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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.
7 Keep container tightly closed.
16 Keep away from sources of ignition - No smoking.
46 If swallowed, seek medical advice immediately and show this container or label.
 - National regulations:
 - Technical instructions (air):
- | Class | Share in % |
|-------|------------|
| II | 32.3 |
| III | 0.1 |
- 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.
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: Department Research & Development
- Contact: T.J.H.M. van Steenes