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*
SECTION 1: Identification of the substance/mixture and of the company/ undertaking

· 1.1 Product identifier

· Trade name: Epifanes Mahogany Stain
· 1.2 Relevant identified uses of the substance or mixture and uses advised against
stain
· Sector of Use
SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
SU21 Consumer uses: Private households / general public / consumers
· Environmental release category
ERC5 Use at industrial site leading to inclusion into/onto article
ERC8c Widespread use leading to inclusion into/onto article (indoor)
ERC8f Widespread use leading to inclusion into/onto article (outdoor)
· Application of the substance / the mixture
See our technical datasheet for application of this product.
Stain for coloring bare wood and/or varnishes
· Uses advised against
This product is not recommended for applications other than the uses identified above.

· 1.3 Details of the supplier of the safety data sheet
· Manufacturer/Supplier:
W.Heeren & Zoon bv.
Oosteinderweg 32
1432 AL Aalsmeer
Netherlands
tel.+31 297-360366
email: info@epifanes.nl
· Further information obtainable from: Research & Development.
· 1.4 Emergency telephone number: +61 7 5563 1222 (Monday-Friday 8:30am-5:00pm)

*
SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture
· Classification according to Regulation (EC) No 1272/2008



GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS08 health hazard

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.



GHS09 environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

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GHS07

STOT SE 3 H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

· 2.2 Label elements
· Labelling according to Regulation (EC) No 1272/2008
The product is classified and labelled according to the GB CLP regulation.
· Hazard pictograms



GHS02 GHS07 GHS08 GHS09

· Signal word Danger
· Hazard-determining components of labelling:
Hydrocarbons, C9, aromatics.
1-methoxy-2-propanol
· Hazard statements
H226 Flammable liquid and vapour.
H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.
H304 May be fatal if swallowed and enters airways.
H411 Toxic to aquatic life with long lasting effects.
· Precautionary statements
P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
· 2.3 Other hazards
· Results of PBT and vPvB assessment
· PBT:
The product does not meet the criteria for PBT in accordance with UK REACH Annex XIII.
Not applicable
· vPvB:
The product does not meet the criteria for vPvB in accordance with UK REACH Annex XIII.

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SECTION 3: Composition/information on ingredients

· 3.2 Mixtures
· Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:

CAS: 128601-23-0 EC number: 918-668-5 Reg.nr.: 01-2119455851-35	Hydrocarbons, C9, aromatics. Flam. Liq. 3, H226 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 STOT SE 3, H335-H336	50-<100%
CAS: 107-98-2 EINECS: 203-539-1 Index number: 603-064-00-3 Reg.nr.: 01-2119457435-35	1-methoxy-2-propanol Flam. Liq. 3, H226 STOT SE 3, H336	10-<25%

· Additional information:
For the wording of the listed hazard phrases refer to section 16.

*

SECTION 4: First aid measures

· 4.1 Description of 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 rinse with water.
· After eye contact: Rinse opened eye for several minutes under running water.
· After swallowing: If symptoms persist consult doctor.
· 4.2 Most important symptoms and effects, both acute and delayed
No further relevant information available.
· 4.3 Indication of any immediate medical attention and special treatment needed
No further relevant information available.

*

SECTION 5: Firefighting measures

· 5.1 Extinguishing media
· 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
· 5.2 Special hazards arising from the substance or mixture
During heating or in case of fire poisonous gases are produced.
No further relevant information available.
· 5.3 Advice for firefighters
· Protective equipment: Mouth respiratory protective device.

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SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures
Mount respiratory protective device.
Wear protective equipment. Keep unprotected persons away.
· 6.2 Environmental precautions:
Prevent seepage into sewage system, workpits and cellars.
Inform respective authorities in case of seepage into water course or sewage system.
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
· 6.3 Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.
· 6.4 Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

*
SECTION 7: Handling and storage

· 7.1 Precautions 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.
Keep respiratory protective device available.

· 7.2 Conditions for safe storage, including any incompatibilities
· 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.
· 7.3 Specific end use(s) No further relevant information available.

*
SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters
· Ingredients with limit values that require monitoring at the workplace:
100 mg/m3, 19 ppm, TWA Manuf. data

107-98-2 1-methoxy-2-propanol	
WEL	Short-term value: 560 mg/m³, 150 ppm Long-term value: 375 mg/m³, 100 ppm Sk

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· Regulatory information WEL: EH40/2020

· DNEL (Derived No Effect Level) voor professionals		
128601-23-0 Hydrocarbons, C9, aromatics.		
Oral	Long-term -systemic effects.	11 mg/kg/dag (consumer)
Dermal	Long-term - systemic effects.	11 mg/kg/dag (consumer)
Inhalative	Long-term - systemic effects.	32 mg/m³ (consumer)
107-98-2 1-methoxy-2-propanol		
Oral	Long-term - systemic effects.	33 mg/kg bw/dag (consumer)
Dermal	Long-term - systemic effects	78 mg/kg bw/dag (consumer)
Inhalative	Long-term - systemic effects.	43.9 mg/m³ (consumer)

· DNEL (Derived No Effect Level) for general audience		
128601-23-0 Hydrocarbons, C9, aromatics.		
Dermal	Long-term - systemic effects.	25 mg/kg/dag (Employees)
Inhalative	Lange termijn systemische effecten.	150 mg/m³ (Employees)
107-98-2 1-methoxy-2-propanol		
Dermal	Long-term - systemic effects	183 mg/kg/dag (Employees)
Inhalative	Lange termijn systemische effecten.	369 mg/m³ (Employees)
	Short-term - local effects.	553.5 mg/m³ (Employees)
	Short-term - systemic effects	553.5 mg/m³ (Employees)

· PNECs	
107-98-2 1-methoxy-2-propanol	
Sewage treatment plant	100 mg/l (Sewage treatment plant)
Freshwater	10 mg/l (Freshwater)
Marine water	1 mg/l (Marine water)
Soil	2.47 mg/kg (soil)
Sediment	4.17 mg/kg (Marine water)
	41.6 mg/kg (Freshwater)

· Additional information: The lists valid during the making were used as basis.

· 8.2 Exposure controls
· Appropriate engineering controls No further data; see section 7.
· Individual protection measures, such as 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:
In case of short or low load, breathing filter device; in the case of intensive or prolonged exposure, use a breathing apparatus independent of the surrounding air. A half-face mask for organic vapours and solvents according to EN140 type A1 or A2 is recommended.

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· Hand protection
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation



Protective gloves

The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information on the breakthrough time of the glove material
provide. The gloves selected should have a breakthrough time of at least 8 hours
have. Nitrile rubber. Viton rubber (fluoro rubber). To protect hands from chemicals, gloves must comply with European Standard EN374.

· 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.

· As protection from splashes gloves made of the following materials are suitable:
PVC gloves

· Not suitable are gloves made of the following materials: None

· Eye/face protection



Tightly sealed goggles

· Body protection:

· Skin protection
Wear suitable protective clothing to protect against splashes or contamination. For
best protection, clothing should include anti-static overalls, boots and gloves.

· Environmental exposure controls
Keep container tightly closed when not in use regarding restrictions on emissions to air, water and soil.

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SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties	
· General Information	
· Physical state	Liquid
· Colour:	Red-brown
· Odour:	Characteristic
· Odour threshold:	Not determined
· Melting point/freezing point:	Undetermined
· Boiling point or initial boiling point and boiling range	150 °C (Koolwaterstoffen, C9, aromaten.)
· Flammability	Flammable.
· Lower and upper explosion limit	
· Lower:	2.3 Vol % (107-98-2 1-methoxy-2-propanol)
· Upper:	~20 Vol % (107-98-2 1-methoxy-2-propanol)
· Flash point:	47 °C
· Auto-ignition temperature:	270 °C (107-98-2 1-methoxy-2-propanol)
· Decomposition temperature:	Not determined
· pH	Mixture is non-soluble (in water).
· Viscosity:	
· Kinematic viscosity at 20 °C	10 s (DIN 53211/4)
· Dynamic:	Not determined
· Solubility	
· water:	Fully miscible.
· Partition coefficient n-octanol/water (log value)	Not determined
· Vapour pressure at 20 °C:	12 hPa (107-98-2 1-methoxy-2-propanol)
· Density and/or relative density	
· Density at 20 °C:	0.9 g/cm³
· Relative density	Not determined
· Vapour density	Not determined

· 9.2 Other information	
· Appearance:	
· Form:	Fluid
· Important information on protection of health and environment, and on safety.	
· Ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Solvent content:	
· Organic solvents:	97.3 %
· VOC content:	97.29 % VOC content: 875.6 g/l / 7.31 lb/gal

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· Solids content:	2.6 %
· Change in condition	
· Evaporation rate	Not determined

· Information with regard to physical hazard classes	
· Explosives	Void
· Flammable gases	Void
· Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Flammable liquid and vapour.
· Flammable solids	Void
· Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
· Self-heating substances and mixtures	Void
· Substances and mixtures, which emit flammable gases in contact with water	Void
· Oxidising liquids	Void
· Oxidising solids	Void
· Organic peroxides	Void
· Corrosive to metals	Void
· Desensitised explosives	Void

*

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.
· 10.2 Chemical stability
· Thermal decomposition / conditions to be avoided:
No decomposition if used according to specifications.
· 10.3 Possibility of hazardous reactions No dangerous reactions known.
· 10.4 Conditions to avoid
Avoid heat, flames and other sources of ignition. Static electricity and spark formation
should be avoided. Do not pressurise, cut, weld, drill, abrade or otherwise expose to heat or sources of ignition.
· 10.5 Incompatible materials: No further relevant information available.
· 10.6 Hazardous decomposition products:
No dangerous decomposition products known.

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SECTION 11: Toxicological information

· 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
· Acute toxicity Void

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· LD/LC50 values relevant for classification:

128601-23-0 Hydrocarbons, C9, aromatics.

Oral	LD50	3,492 mg/kg (rat) (OECD 401)
Dermal	LD50	3,160 mg/kg (rabbit) (OECD 402)
Inhalative	LC50	>6,193 mg/m³ (rat) (OECD 403)

107-98-2 1-methoxy-2-propanol

Oral	LD50	>2,000 mg/kg bw (rat) (OESO 402)

· Primary irritant effect:
· Skin corrosion/irritation Void
· Serious eye damage/irritation Void
· Respiratory or skin sensitisation
Based on available data, the classification criteria are not met.
· Germ cell mutagenicity Void
· Carcinogenicity
Based on available data, the classification criteria are not met.
· Reproductive toxicity
Based on available data, the classification criteria are not met.
· STOT-single exposure
May cause respiratory irritation. May cause drowsiness or dizziness.
· STOT-repeated exposure
Based on available data, the classification criteria are not met.
· Aspiration hazard May be fatal if swallowed and enters airways.
· 11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is listed.

*

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

128601-23-0 Hydrocarbons, C9, aromatics.

	EC50/48 h	3.2 mg/l ((Daphnia magna))
	LC50 (96 hours)	9.2 mg/l ((rainbow trout))
	EC50 (72 hours)	2.9 mg/l (algae) (NOEC)

107-98-2 1-methoxy-2-propanol

Dermal	LD50	>2,000 mg/kg (rat) (OESO 402)
	sporadic release	100 mg/l (water)

· 12.2 Persistence and degradability
Persistence and degradability
The product is readily biodegradable.
Biodegradability - 78%: 28 days OECD 301F
· 12.3 Bioaccumulative potential No further relevant information available.
· 12.4 Mobility in soil The product is not soluble in water.

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· 12.5 Results of PBT and vPvB assessment
· PBT:
This substance is not classified as PBT or vPvB according to current EU criteria.
· vPvB:
This substance is not classified as vPvB according to current EU criteria.
· 12.6 Endocrine disrupting properties
The product does not contain substances with endocrine disrupting properties.
· 12.7 Other adverse effects
· Remark: Toxic for fish
· Additional ecological information:
· General notes:
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Also poisonous for fish and plankton in water bodies.
Toxic for aquatic organisms

*
SECTION 13: Disposal considerations

· 13.1 Waste treatment methods
· 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.
· Recommended cleansing agents:
Water, if necessary together with cleansing agents.

*
SECTION 14: Transport information

· 14.1 UN number or ID number	
· ADR, IMDG, IATA	UN1263
· 14.2 UN proper shipping name	
· ADR	1263 PAINT, ENVIRONMENTALLY HAZARDOUS
· IMDG	PAINT, MARINE POLLUTANT
· IATA	PAINT

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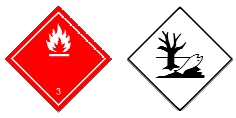
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· **14.3 Transport hazard class(es)**

· **ADR**



· **Class**	3 (F1) Flammable liquids.
· **Label**	3

· **IMDG**



· **Class**	3 Flammable liquids.
· **Label**	3

· **IATA**



· **Class**	3 Flammable liquids.
· **Label**	3

· **14.4 Packing group**	
· **ADR, IMDG, IATA**	III
· **14.5 Environmental hazards:**	
· **Marine pollutant:**	No Symbol (fish and tree)
· **Special marking (ADR):**	Symbol (fish and tree)
· **14.6 Special precautions for user**	Warning: Flammable liquids.
· **Hazard identification number (Kemler code):**	30
· **EMS Number:**	F-E,S-E
· **Stowage Category**	A
· **14.7 Maritime transport in bulk according to IMO instruments**	Not applicable
· **Transport/Additional information:**	
· **ADR**	
· **Limited quantities (LQ)**	5L
· **Excepted quantities (EQ)**	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging:

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·	1000 ml
· Transport category	3
· Tunnel restriction code	D/E
· IMDG	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 1263 PAINT, 3, III, ENVIRONMENTALLY HAZARDOUS

*

SECTION 15: Regulatory information

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
· Poisons Act

· Regulated explosives precursors
None of the ingredients is listed.

· Regulated poisons
None of the ingredients is listed.

· Reportable explosives precursors
None of the ingredients is listed.

· Reportable poisons
None of the ingredients is listed.

· Directive 2012/18/EU
· Named dangerous substances - ANNEX I None of the ingredients is listed.
· Seveso category
E2 Hazardous to the Aquatic Environment
P5c FLAMMABLE LIQUIDS
· Qualifying quantity (tonnes) for the application of lower-tier requirements
200 t
· Qualifying quantity (tonnes) for the application of upper-tier requirements
500 t

· National regulations:

· Technical instructions (air):

Class	Share in %
NK	50-100

· Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.

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· 15.2 Chemical safety assessment:
A Chemical Safety Assessment has not been carried out.

*

SECTION 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 phrases
H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.
· Classification according to Regulation (EC) No 1272/2008
The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

· Department issuing SDS: Research & Development.
· Contact: J.J. van Dijk, tel: +31 297 360678, email: rend@epifanes.nl
· Abbreviations and acronyms:
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organisation
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VOC: Volatile Organic Compounds (USA, EU)
DNEL: Derived No-Effect Level (UK REACH)
PNEC: Predicted No-Effect Concentration (UK REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 3: Flammable liquids – Category 3
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Asp. Tox. 1: Aspiration hazard – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
· Sources
ECHA European Chemical Agency - http://echa.europa.eu/information-on-chemicals
SDS of raw materials provided by producer/supplier.
DNEL/PNEC/Aquatic toxicity provided according to safety data sheet producer/supplier.
· * Data compared to the previous version altered.