

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

1.1. Product identifier

Product form	: Mixture
Product name	: Embalan Woodworm killer
Product code	: ENHDW
Type of product	: Biocide
Product group	: Trade product

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Main use category	: Professional use
Use of the substance/mixture	: Wood preservative insecticide effect.

Title	Life cycle stage	Use descriptors
Embalan Woodworm killer	Professional	PC8, PROC7, PROC10, PROC11, PROC13

Full text of use descriptors: see section 16

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Hoetmer b.v.
Nijverheidstraat 12 - Postbus 1
NL-3300 AA Dordrecht - Nederland
T +31-78-6350720 - F +31-78-6133029
hoetmerbv@hoetmer.com

1.4. Emergency telephone number

Emergency number : +31-78-6350720 (During office hours 8:30 to 17:00 pm)

Country	Official advisory body	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0344 892 0111	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity (oral), Category 4	H302
Serious eye damage/eye irritation, Category 1	H318
Skin sensitisation, Category 1	H317
Aspiration hazard, Category 1	H304
Hazardous to the aquatic environment — Acute Hazard, Category 1	H400
Hazardous to the aquatic environment — Chronic Hazard, Category 1	H410

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



Signal word (CLP) : Danger

Hazardous ingredients : permethrin (ISO); m-phenoxybenzyl 3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate; Hydrocarbons, C10-13, n-alkanes, isoalkanes, cyclics, < 2% aromatics; 1-Heptanol, 2-propyl-, 7EO

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Hazard statements (CLP)	: H302 - Harmful if swallowed. H304 - May be fatal if swallowed and enters airways. H317 - May cause an allergic skin reaction. H318 - Causes serious eye damage. H410 - Very toxic to aquatic life with long lasting effects.
Precautionary statements (CLP)	: P261 - Avoid breathing vapours, mist. P273 - Avoid release to the environment. P280 - Wear protective gloves, protective clothing, eye protection. P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER, a doctor. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 - Immediately call a POISON CENTER, a doctor. P331 - Do NOT induce vomiting. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
EUH-statements	: EUH066 - Repeated exposure may cause skin dryness or cracking.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	% w/w (% w/w)	Classification according to Regulation (EC) No. 1272/2008 [CLP]
1-Heptanol, 2-propyl-, 7EO	(CAS-No.) 160875-66-1 (EC-No.) 605-233-7	30 - 50	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318
2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether	(CAS-No.) 112-34-5 (EC-No.) 203-961-6 (EC Index-No.) 603-096-00-8 (REACH-no) 01-2119475104-44	30 - 50	Eye Irrit. 2, H319
Hydrocarbons, C10-13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	(EC-No.) 918-481-9 (EC Index-No.) 649-327-00-6 (REACH-no) 01-2119457273-39	20 - 30	Asp. Tox. 1, H304
permethrin (ISO); m-phenoxybenzyl 3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate	(CAS-No.) 52645-53-1 (EC-No.) 258-067-9 (EC Index-No.) 613-058-00-2	1 - 5	Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Oral), H302 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=1000) Aquatic Chronic 1, H410 (M=1000)
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.	(CAS-No.) 85536-14-7 (EC-No.) 287-494-3 (REACH-no) 01-2119490234-40	0.1 - 1	Acute Tox. 4 (Oral), H302 Skin Corr. 1C, H314 Eye Dam. 1, H318 Aquatic Chronic 3, H412

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Allow affected person to breathe fresh air. Allow the victim to rest. Seek medical attention if ill effect or irritation develops.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Repeated exposure may cause skin dryness or cracking. Seek medical attention if ill effect or irritation develops.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation	: May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Causes serious eye damage.
Symptoms/effects after ingestion	: Swallowing a small quantity of this material will result in serious health hazard. May be fatal if swallowed and enters airways.

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4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray.
Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.
Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Store away from other materials.

6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Restricted to professional users.
Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.
Hygiene measures : Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Comply with applicable regulations.
Storage conditions : Keep away from oxidizing agents. Keep container closed when not in use.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (112-34-5)

EU	Local name	2-(2-Butoxyethoxy)ethanol
EU	IOELV TWA (mg/m ³)	67.5 mg/m ³
EU	IOELV TWA (ppm)	10 ppm
EU	IOELV STEL (mg/m ³)	101.2 mg/m ³
EU	IOELV STEL (ppm)	15 ppm
EU	Regulatory reference	COMMISSION DIRECTIVE 2006/15/EC
Germany	TRGS 910 Acceptable concentration notes	
United Kingdom	Local name	2-(2-Butoxyethoxy)ethanol
United Kingdom	WEL TWA (mg/m ³)	67.5 mg/m ³
United Kingdom	WEL TWA (ppm)	10 ppm
United Kingdom	WEL STEL (mg/m ³)	101.2 mg/m ³

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2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (112-34-5)		
United Kingdom	WEL STEL (ppm)	15 ppm
United Kingdom	Regulatory reference	EH40/2005 (Third edition, 2018). HSE
2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (112-34-5)		
DNEL/DMEL (Workers)		
Acute - local effects, inhalation		101.2 mg/m ³
Long-term - systemic effects, dermal		83 mg/kg bodyweight/day
Long-term - systemic effects, inhalation		67.5 mg/m ³
Long-term - local effects, inhalation		67.5 mg/m ³
DNEL/DMEL (General population)		
Acute - local effects, inhalation		60.7 mg/m ³
Long-term - systemic effects, oral		5 mg/kg bodyweight/day
Long-term - systemic effects, inhalation		40.5 mg/m ³
Long-term - systemic effects, dermal		50 mg/kg bodyweight/day
Long-term - local effects, inhalation		40.5 mg/m ³
PNEC (Water)		
PNEC aqua (freshwater)		1.1 mg/l
PNEC aqua (marine water)		110 µg/l
PNEC aqua (intermittent, freshwater)		11 mg/l
PNEC (Sediment)		
PNEC sediment (freshwater)		4.4 mg/kg bw
PNEC sediment (marine water)		440 µg/kg
PNEC (Soil)		
PNEC soil		320 µg/kg
PNEC (Oral)		
PNEC oral (secondary poisoning)		56 mg/kg food
PNEC (STP)		
PNEC sewage treatment plant		200 mg/l
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. (85536-14-7)		
DNEL/DMEL (Workers)		
Long-term - systemic effects, dermal		85 mg/kg bodyweight/day
Long-term - systemic effects, inhalation		6 mg/m ³
DNEL/DMEL (General population)		
Long-term - systemic effects, oral		425 µg/kg dw
Long-term - systemic effects, inhalation		1.5 mg/m ³
Long-term - systemic effects, dermal		42.5 mg/kg bodyweight/day
PNEC (Water)		
PNEC aqua (freshwater)		268 µg/l
PNEC aqua (marine water)		26.8 µg/l
PNEC aqua (intermittent, freshwater)		16.7 µg/l
PNEC (Sediment)		
PNEC sediment (freshwater)		8.1 mg/kg bw
PNEC sediment (marine water)		6.8 mg/kg bw
PNEC (Soil)		
PNEC soil		35 mg/kg bw

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Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. (85536-14-7)

PNEC (STP)

PNEC sewage treatment plant	3.43 mg/l
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8.2. Exposure controls

Hand protection:

Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): e.g. nitrile rubber (≥ 0.4 mm), butyl rubber (≥ 0.7 mm) and others. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:

Wear eye glasses with side protection according to EN 166.

Skin and body protection:

Wear suitable protective clothing. Apron. boots made of natural rubber. Standard. EN 13034

Respiratory protection:

Provide for sufficient ventilation. This can be achieved by local exhaust or general exhaust air collection. Wear a suitable respirator if the ventilation is not sufficient to keep the solvent vapour concentration below the occupational limit values. Wear respiratory protection when in the presence of vapour, dust, and aerosols. Wear a respirator conforming to EN140 with Type A/P2 filter or better

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: colourless to slightly yellow.
Odour	: characteristic.
Odour threshold	: No data available
pH	: 8 (20°C)
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: not determined
Freezing point	: No data available
Boiling point	: > 100 °C
Flash point	: 75 °C
Auto-ignition temperature	: 225 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: Non flammable.
Vapour pressure	: 0 hPa (20°C)
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 0.928 g/cm ³ (20°C)
Solubility	: Water: easily soluble.
Log Pow	: No data available
Viscosity, kinematic	: 12.177 mm ² /s
Viscosity, dynamic	: 11.3 mPa·s (20°C)
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: 0.5 - 9.8 vol %

9.2. Other information

VOC content	: 58.9 %
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SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Not established.

10.3. Possibility of hazardous reactions

Not established.

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10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Harmful if swallowed.

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

ATE oral	500 mg/kg bodyweight
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permethrin (ISO); m-phenoxybenzyl 3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate (52645-53-1)

LD50 oral rat	480 mg/kg
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LD50 dermal rat	> 2000 mg/kg
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LC50 inhalation rat (mg/l)	> 23.5 mg/l (4h)
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Hydrocarbons, C10-13, n-alkanes, isoalkanes, cyclics, < 2% aromatics

LD50 oral rat	5000 - 15000 mg/kg
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LD50 dermal rat	2000 mg/kg
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LD50 dermal rabbit	3160 - 5000 mg/kg
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LC50 inhalation rat (mg/l)	5 mg/l (8h)
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LC50 inhalation rat (ppm)	41 - 4467 ppm (8h)
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2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (112-34-5)

LD50 oral	2410 (≤ 5530) mg/kg mouse
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LD50 dermal rabbit	2764 mg/kg
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Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. (85536-14-7)

LD50 oral rat	1470 mg/kg
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LD50 dermal rat	2000 mg/kg
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Skin corrosion/irritation : Not classified
pH: 8 (20°C)

Additional information : Repeated exposure may cause skin dryness or cracking

Serious eye damage/irritation : Causes serious eye damage.
pH: 8 (20°C)

Respiratory or skin sensitisation : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : May be fatal if swallowed and enters airways.

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Viscosity, kinematic	12.177 mm ² /s
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Potential adverse human health effects and symptoms : Harmful if swallowed.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - water : Very toxic to aquatic life with long lasting effects.

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Acute aquatic toxicity : Very toxic to aquatic life.
Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

permethrin (ISO); m-phenoxybenzyl 3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate (52645-53-1)

LC50 fishes	0.0051 mg/l (96h)
EC50 Daphnia	0.00064 mg/l (48h)
ErC50 (algae)	> 1.13 mg/l (72h)

2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (112-34-5)

LC50 fishes	1.3 g/l (96h)
EC50 Daphnia	100 mg/l (48h)
EC50 72h algae (1)	1.101 g/l (72h)
NOEC (acute)	>= 100 mg/l (48h)

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. (85536-14-7)

LC50 fishes	1.67 (≤ 2.88) mg/l (96h)
EC50 Daphnia	2.9 mg/l

12.2. Persistence and degradability

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Persistence and degradability : May cause long-term adverse effects in the environment.

12.3. Bioaccumulative potential

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Bioaccumulative potential : Not established.

permethrin (ISO); m-phenoxybenzyl 3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate (52645-53-1)

Log Pow : 6.1

2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (112-34-5)

Log Pow : 1 @ 20 °C / pH 7

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. (85536-14-7)

Log Pow : 2.2 (23 °C)

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

Component

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. (85536-14-7) : This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

Additional information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations.
Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials : Avoid release to the environment. Hazardous waste due to toxicity.
European List of Waste (LoW) code : 06 13 01* - inorganic plant protection products, wood-preserving agents and other biocides




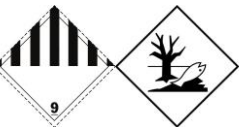
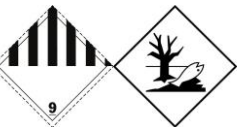
SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

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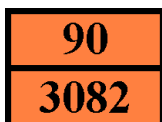
ADR	IMDG	IATA	ADN	RID
14.1. UN number				
UN 3082	UN 3082	UN 3082	UN 3082	UN 3082
14.2. UN proper shipping name				
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	Environmentally hazardous substance, liquid, n.o.s.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Transport document description				
UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (permethrin (ISO); m-phenoxybenzyl 3-(2,2-dichorovinyl)-2,2-dimethylcyclopropanecarboxylate), 9, III, (-)	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (permethrin (ISO); m-phenoxybenzyl 3-(2,2-dichorovinyl)-2,2-dimethylcyclopropanecarboxylate), 9, III, MARINE POLLUTANT	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (permethrin (ISO); m-phenoxybenzyl 3-(2,2-dichorovinyl)-2,2-dimethylcyclopropanecarboxylate), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (permethrin (ISO); m-phenoxybenzyl 3-(2,2-dichorovinyl)-2,2-dimethylcyclopropanecarboxylate), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (permethrin (ISO); m-phenoxybenzyl 3-(2,2-dichorovinyl)-2,2-dimethylcyclopropanecarboxylate), 9, III
14.3. Transport hazard class(es)				
9	9	9	9	9
				
14.4. Packing group				
III	III	III	III	III
14.5. Environmental hazards				
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes

No supplementary information available

14.6. Special precautions for user

Overland transport

Classification code (ADR)	: M6
Special provisions (ADR)	: 274, 335, 375, 601
Limited quantities (ADR)	: 5I
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P001, IBC03, LP01, R001
Special packing provisions (ADR)	: PP1
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instructions (ADR)	: T4
Portable tank and bulk container special provisions (ADR)	: TP1, TP29
Tank code (ADR)	: LGBV
Vehicle for tank carriage	: AT
Transport category (ADR)	: 3
Special provisions for carriage - Packages (ADR)	: V12
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV13
Hazard identification number (Kemler No.)	: 90
Orange plates	:



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Tunnel restriction code (ADR) : -
EAC code : •3Z

Transport by sea

Special provisions (IMDG) : 274, 335, 969
Limited quantities (IMDG) : 5 L
Excepted quantities (IMDG) : E1
Packing instructions (IMDG) : LP01, P001
Special packing provisions (IMDG) : PP1
IBC packing instructions (IMDG) : IBC03
Tank instructions (IMDG) : T4
Tank special provisions (IMDG) : TP2, TP29
EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-F
Stowage category (IMDG) : A
MFAG-No : 171

Air transport

PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y964
PCA limited quantity max net quantity (IATA) : 30kgG
PCA packing instructions (IATA) : 964
PCA max net quantity (IATA) : 450L
CAO packing instructions (IATA) : 964
CAO max net quantity (IATA) : 450L
Special provisions (IATA) : A97, A158, A197
ERG code (IATA) : 9L

Inland waterway transport

Classification code (ADN) : M6
Special provisions (ADN) : 274, 335, 375, 601
Limited quantities (ADN) : 5 L
Excepted quantities (ADN) : E1
Carriage permitted (ADN) : T
Equipment required (ADN) : PP
Number of blue cones/lights (ADN) : 0

Rail transport

Classification code (RID) : M6
Special provisions (RID) : 274, 335, 375, 601
Excepted quantities (RID) : E1
Packing instructions (RID) : P001, IBC03, LP01, R001
Special packing provisions (RID) : PP1
Mixed packing provisions (RID) : MP19
Portable tank and bulk container instructions (RID) : T4
Portable tank and bulk container special provisions (RID) : TP1, TP29
Tank codes for RID tanks (RID) : LGBV
Transport category (RID) : 3
Special provisions for carriage – Packages (RID) : W12
Special provisions for carriage - Loading, unloading and handling (RID) : CW13, CW31
Colis express (express parcels) (RID) : CE8
Hazard identification number (RID) : 90

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

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3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008	Embalan Woodworm killer - Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. - permethrin (ISO); m-phenoxybenzyl 3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate - Hydrocarbons, C10-13, n-alkanes, isoalkanes, cyclics, < 2% aromatics - 1-Heptanol, 2-propyl-, 7EO - 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether
3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	Embalan Woodworm killer - Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. - permethrin (ISO); m-phenoxybenzyl 3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate - Hydrocarbons, C10-13, n-alkanes, isoalkanes, cyclics, < 2% aromatics - 1-Heptanol, 2-propyl-, 7EO - 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether
3(c) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1	Embalan Woodworm killer - Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. - permethrin (ISO); m-phenoxybenzyl 3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate
55. 2-(2-butoxyethoxy)ethanol (DEGBE)	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Substances subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals: Permethrin (52645-53-1) (CAS Number).

Substance(s) are not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC.

VOC content : 58.9 %
Type of product (Biocide) : 8 - Wood preservatives

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes:

Section	Changed item	Change	Comments
	Supersedes	Modified	
	Revision date	Modified	
2.2	Precautionary statements (CLP)	Modified	
7.2	Precautionary statements (CLP)	Modified	
8.2	Skin and body protection	Modified	
8.2	Respiratory protection	Modified	
16	Abbreviations and acronyms	Added	

Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration

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LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
STP	Sewage treatment plant
TLM	Median Tolerance Limit
vPvB	Very Persistent and Very Bioaccumulative

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : DISCLAIMER OF LIABILITY The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

Full text of H- and EUH-statements:	
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Corr. 1C	Skin corrosion/irritation, Category 1C
Skin Sens. 1	Skin sensitisation, Category 1
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking
Full text of use descriptors	
PC8	Biocidal products (e.g. Disinfectants, pest control)
PROC10	Roller application or brushing

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PROC11	Non-industrial spraying	
PROC13	Treatment of articles by dipping and pouring	
PROC7	Industrial spraying	
Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
Acute Tox. 4 (Oral)	H302	Annex VII conversion
Eye Dam. 1	H318	Calculation method
Skin Sens. 1	H317	Calculation method
Asp. Tox. 1	H304	Calculation method
Aquatic Acute 1	H400	Calculation method
Aquatic Chronic 1	H410	Calculation method

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.