

Safety data sheet

according to Regulation 1907/2006 / EC, article 31

Compilation date: 18.04.2018

Version number 30

Revision: 18.04.2018

SECTION 1: Identification of the substance or company*iscela and the company /*

- **1.1 Product identifier**
- **Commercial name: LIGNEX DEFEND**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No other information available.
- **Application of the substance / the preparation** **Wood protection agent**
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer / supplier:**
Amonn Coatings GmbH
An der Landesbahn 7
A-2100 Korneuburg
Tel. : +43 2262 735 80 - Fax. : +43 2262 735 80-19
- **Distributor:**
JF Amonn srI / GmbH
I-39100 Bolzano / Bozen
Via Altmann 12 Altmannstraße
Tel. : +39 0471 904-911 - Fax. : +39 0471 910-449
- **Information provided by:** Email: verkauf@amonn.at
- **1.4 Emergency telephone number:**
Poison Control Center - Niguarda Hospital - Milan: 02/66101029

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No. 1272** / 2008
- Asp. Tox. 1** **H304 May be fatal if swallowed and enters airways**
respiratory.
- Aquatic Acute 1** **H400 Very toxic to aquatic life.**
- Aquatic Chronic 1** **H410 Very toxic to aquatic life with long lasting effects.**

- **2.2 Label elements**
- **Labeling according to Regulation (EC) No. 1272/2 008**
The product is classified and labeled according to the CLP regulation.
- **Hazard pictograms**



GHS08 GHS09

- **Warning** **Danger**
- **Hazardous components that determine its** **ature:**
labeling Naphtha (petroleum), hydrotreated
heavy Low boiling point naphtha - unspecified
- **Hazard statements**
H304 May be fatal if swallowed and enters airways. H410 Very toxic to aquatic
life with long lasting effects.
- **Precautionary advice**
- P101** **If you need to consult a doctor, have the container or the label of the product**
available.
- P102** **Keep out of reach of children. Do not**
- P273** **disperse in the environment.**
- P301 + P310** **IF SWALLOWED: Immediately contact a POISON CENTER / a**
doctor.
- P331** **DO NOT induce vomiting. Collect**
- P391** **spilled material. Keep locked up.**
- P405**
- P501** **Dispose of the product / container in accordance with local / regional / national /**
international regulations.
- **Further data:**
EUH066 Repeated exposure may cause skin dryness or cracking.
EUH208 Contains m-phenoxybenzyl 3- (2,2-dichlorovinyl) -2,2-dimethylcyclopropanecarboxylate
(permethrins (ISO)). It can cause an allergic reaction.

(continued on page 2)

Safety data sheet

according to Regulation 1907/2006 / EC, article 31

Compilation date: 18.04.2018

Version number 30

Revision: 18.04.2018

Commercial name: LIGNEX DEFEND

(Contd. Of page 1)

- 2.3 Other dangers
- Results of PBT and vPvB assessment
- PBT:Not applicable.
- vPvB:Not applicable.

SECTION 3: Composition / information on ingredients nti

- 3.2 Mixtures
- Description:Mixture of the following substances with non-hazardous additives.

• Dangerous substances:

EC numbers: 918-481-9 Reg.nr.: 01-2119457273-39-xxxx Asp. Tox. 1, H304	Naphtha (petroleum), hydrotreated heavy of m-phenoxybenzyl (permethrin (ISO))	50-100%
CAS: 52645-53-1 EINECS: 258-067-9	3- (2,2-dichlorovinyl) -2,2-dimethylcyclopropanecarboxylate of m-phenoxybenzyl (permethrin (ISO)) Aquatic Acute 1, H400 (M = 1000); Aquatic Chronic 1, H410 (M = 1000); Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Sens. 1, H317	<0.5%

- Further information: The text of the warning of the hazards mentioned can be found in chapter 16

SECTION 4: First aid measures

- 4.1 Description of first aid measures
- General indications:Remove any clothing contaminated by the product immediately.
- Inhalation:Bring to a well-ventilated area, in case of problems consult a doctor.
- Skin contact:Generally the product is not irritating to the skin.
- Eye contact
Wash with running water for several minutes holding the eyelids wide open and consult your doctor.
- Ingestion:
Do not induce vomiting. Seek medical advice immediately. Seek
medical advice immediately.
- 4.2 Main symptoms and effects, both acute and delayedNo other information available.
- 4.3 Indication of any immediate medical attention and special treatment needed

No other information available.

SECTION 5: Firefighting measures

- 5.1 Extinguishing media
- Suitable extinguishing media:
CO², powder or water spray. Extinguish large fires with water spray or alcohol resistant
foam.
- 5.2 Special hazards arising from the substance the mixture
or No other information available.
- 5.3 Recommendations for firefighters of fires
- Specific protective means: No special measures are required.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Not
necessary.
- 6.2 Environmental precautions:
Prevent the entry of the product into sewers or water courses.
In case of infiltration into bodies of water or sewers, notify the competent authorities.
- 6.3 Methods and materials for containment and cleaning up:
Collect the liquid with absorbent material (sand, diatomaceous earth,
sawdust). Disposal of contaminated material according to point 13 Provide
adequate ventilation.
- 6.4 Reference to other sections
For information on safe handling see Section 7.
For information on personal protective equipment see Chapter 8.

(continued on page 3)

Safety data sheet

according to Regulation 1907/2006 / EC, article 31

Compilation date: 18.04.2018

Version number 30

Revision: 18.04.2018

Commercial name: LIGNEX DEFEND

(Contd. Of page 2)

For information on disposal, see Chapter 13.

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling Accurate ventilation / extraction in the workplace.
- Advice in case of fire and explosion: No special measures are required.
- 7.2 Conditions for safe storage, including any incompatibilities
- Storage:
 - Requirements for warehouses and vessels: Store in a dry and well ventilated place, between + 5 ° C and + 40 ° C. Protect from heat and direct sunlight. Keep containers tightly closed.
 - Notes on mixed storage: Not necessary.
 - Further information relating to the conditions of i storage: None.
- Storage class: 10
- 7.3 Specific end uses No other information available.

SECTION 8: Exposure controls / protection in individual

- Further information on the structure of implants t technical: No further data, see point 7

8.1 Control parameters

- Components with limit values to be met under control in the workplace

34590-94-8 (methyl-2-methoxyethoxy) propanol (1.5-3%)

TWA Short term value: 909 mg / m³, 150 ppm
Long-term value: 606 mg / m³, 100 ppm
Skin

VL Long-term value: 308 mg / m³, 50 ppm
skin

- Further information: The lists valid at the date of compilation were used as a basis.
- 8.2 Exposure controls
- Individual protective means
- General protective and occupational hygiene rules: Keep away from food, drink and fodder. Wash hands before breaks or at the end of work. Do not inhale gas / vapor / aerosol.
- Protective mask: In insufficiently ventilated areas, use a protective mask.
- Protective Gloves:
 - The glove material has to be impermeable and resistant to the product / the substance / the preparation.
 - Due to lack of tests no recommendation to the glove material of any type can be made 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.
- Glove material
 - The selection of the suitable gloves does not only depend on the material but also on other quality characteristics which vary 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.
- Breakthrough time of glove material
 - The exact breakthrough time has to be found out by the manufacturer of the gloves and has to be observed.
- Safety goggles: The use of protective goggles is recommended when pouring.

SECTION 9: Physical and chemical properties

- 9.1 Information on physical and chemical properties fundamental
- General indications
- Appearance:
 - Form: liquid
 - Color: colorless
 - Odor: characteristic

(continued on page 4)

Safety data sheet

according to Regulation 1907/2006 / EC, article 31

Compilation date: 18.04.2018

Version number 30

Revision: 18.04.2018

Commercial name: LIGNEX DEFEND

(Contd. Of page 3)

• Odor threshold:	Undefined.
• pH values:	Undefined.
• Change of state Melting point / freezing point: Initial boiling point and boiling range:	<-33 ° C 180 ° C
• Flash point:	63 ° C
• Flammability (solid, gas):	Not applicable.
• Ignition temperature:	240 ° C
• Decomposition temperature:	Undefined.
• Self-ignition temperature:	Not self-igniting product.
• Explosive properties:	Non-explosive product.
• Flammability limits: lower: superior:	0.7 Vol% 6.0 Vol%
• Vapor pressure at 20 ° C:	3 hPa
• Density at 20 ° C: • Relative density • Vapor density: • Evaporation rate	0.79 - 0.81 g / cm ³ Not determined. Undefined. Undefined.
• Solubility in / Miscibility with Water at 20 ° C:	0.0012 g / l
• Partition coefficient: n-octanol / water:	Undefined.
• Viscosity: dynamics: kinematics at 20 ° C:	Undefined. 45 - 47 s (DIN 2mm)
• Solvent content: Organic solvents: Waterfall:	98.8% 0.0%
• Solid content: • 9.2 Other information	0.3% No other information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No other information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to avoid:**
The product does not decompose if used as directed.
- **10.3 Possibility of hazardous reactions** There are no known dangerous reactions.
- **10.4 Conditions to avoid** No other information available.
- **10.5 Incompatible materials:** No other information available.
- **10.6 Hazardous decomposition products:** There are no known dangerous decomposition products.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

• **LD / LC50 values** relevant for classification:**Naphtha (petroleum), hydrotreatin heavy** g "

Oral	LD50	> 2,000 mg / kg (Rat (Rattus))
Cutaneous	LD50	> 2,000 mg / kg (rab)

(continued on page 5)

Safety data sheet

according to Regulation 1907/2006 / EC, article 31

Compilation date: 18.04.2018

Version number 30

Revision: 18.04.2018

Commercial name: LIGNEX DEFEND

(Contd. Of page 4)

52645-53-1 3- (2,2-dichlorovinyl) -2,2-dimethylcycloprop m-phenoxybenzyl ancarboxylate
(permethrin (ISO))

Oral	LD50	480 mg / kg (Rat (Rattus))
Cutaneous	LD50	> 2,000 mg / kg (Rat (Rattus))
Inhalation LC50 / 4 h 11		mg / l (ATE)

- **Primary irritability:**
- **On the skin:** Based on available data, the classification criteria are not met.
- **On the eyes:** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitization**
Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity**
Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity**
Based on available data, the classification criteria are not met.
- **Specific Target Organ Toxicity (STOT) - and single exposure** Based on available data, the classification criteria are not met.
- **Specific target organ toxicity (STOT) - and repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard**
It can be fatal if swallowed and if it enters the respiratory tract.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No other information available.
- **12.2 Persistence and degradability** No other information available. No
- **12.3 Bioaccumulative potential** other information available.
- **12.4 Mobility in soil** No other information available.
- **Toxic effects on the environment:**
- **Remarks:** Very toxic to fish.
- **Further environmental information:**
- **Further information:**
Water hazard class 2 (D) (Self-classification): dangerous Do not enter groundwater, water courses or sewers.
Danger for drinking water even in case of leaks into the subsoil of small quantities of product.
Toxic to fish and plankton.
Very toxic to aquatic organisms
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No other information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Advice:** Do not dispose of the product with household waste. Do not enter the sewers
- **European waste catalog**
- **03 02 02 *** wood preservative treatment products containing chlorinated organic compounds

- **Uncleaned packaging:**
- **Advice:** Disposal in accordance with administrative regulations.

SECTION 14: Transport information

- **14.1 UN number**
- **ADR, IMDG, IATA** A3082
- **14.2 UN proper shipping name**
- **ADR** 3082 MATTER DANGEROUS FOR THE ENTITY, dichlorovinyl, N.A. S. (3 - (2, 2 - dimethylcyclopropanecarboxylate of

(continued on page 6)

IT

Safety data sheet

according to Regulation 1907/2006 / EC, article 31

Compilation date: 18.04.2018

Version number 30

Revision: 18.04.2018

Commercial name: LIGNEX DEFEND

(Contd. Of page 5)

•
• **IMDG**

m-phenoxybenzyl (permethrins (ISO)))
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, NOS (permethrin (ISO) *m*-phenoxybenzyl 3- (2,2-dichlorovinyl) -2,2-dimethylcyclopropanecarboxylate), MARINE POLLUTANT

• **IATA**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, NOS (permethrin (ISO) *m*-phenoxybenzyl 3- (2,2-dichlorovinyl) -2,2-dimethylcyclopropanecarboxylate)

• **14.3 Transport hazard classes**

• **ADR**



• **Class**
• **Label**

9 (M6) Miscellaneous dangerous substances and articles 9

• **IMDG, IATA**



• **Class**
• **Label**

9 Miscellaneous dangerous substances and articles 9

• **14.4 Packing group**

• **ADR, IMDG, IATA**

III

• **14.5 Environmental hazards:**

The product contains substances dangerous for the environment: 3 - (2, 2 - dichlorovinyl) - 2, 2 - *m*-phenoxybenzyl dimethylcyclopropanecarboxylate (permethrins (ISO))

• **Marine pollutant:**

Yup

• **Special marking (ADR):**

Symbol (fish and tree)

• **Special marking (IATA):**

Symbol (fish and tree)

Symbol (fish and tree)

• **14.6 Special precautions for users**

Attention: Various dangerous substances and objects

• **Kemler number:**

90

• **EMS number:**

FA, SF

• **Stowage Category**

TO

• **14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code**

Not applicable.

• **Transport / further information:**

• **ADR**

• **Excepted quantities (EQ):**

E1

• **Limited quantities (LQ)**

5L

• **Excepted quantities (EQ)**

Code: E1

Maximum net quantity for internal packaging: 30 ml

Maximum net quantity for outer packaging:

1000 ml

• **Transport category**

3

• **IMDG**

• **Limited quantities (LQ)**

5L

(continued on page 7)

Safety data sheet

according to Regulation 1907/2006 / EC, article 31

Compilation date: 18.04.2018

Version number 30

Revision: 18.04.2018

Commercial name: LIGNEX DEFEND

(Contd. Of page 6)

• Excepted quantities (EQ)

Code**Maximum net quantity for internal packaging: 30 ml****Maximum net quantity for outer packaging:
1000 ml**

• UN "Model Regulation":

**UN 3082 MATER IA FOR COLOSA FOR ENTITY, L
IQU IDA, N .A. S. (3 - (2, 2 - DICHLOROVINIL) - 2,
2 - DIMETHYLCYCLOPPANCARBOXYLATE OF M-
PHENOSSIBENTYL (PERMETHRINE (ISO))), 9, III****SECTION 15: Regulatory information**• **15.1 Laws and regulations on health, safety and environment specific to the substance or mixture**

• Directive 2012/18 / EU

• **Specified dangerous substances - ANNEX I** None of the components are contained.• **Seveso category E1 Hazardous to the aquatic environment**

• Qualifying quantity (tonnes) for the purpose of the application one of the lower-tier requirements 100 t

• Qualifying quantity (tonnes) for the purpose of the application one of the upper-tier requirements 200 t

• **REGULATION (EC) n. 1907/2006 ANNEX XVII** Restrictions: 3• **National regulations:**• **Air technical instruction:**

Class	share in %
NC	98.8

• **Water hazard class:****Water hazard class 2 (WGK2) (Self-classification): dangerous**• **15.2 Chemical safety assessment:****A chemical safety assessment has not been carried out.****SECTION 16: Other information****The data are based on our current knowledge, however they do not represent any guarantee of the product characteristics and do not justify any contractual legal relationship.**• **Relevant phrases****H302 Harmful if swallowed.****H304 May be fatal if swallowed and enters airways. H317 May cause an allergic skin reaction.****H332 Harmful if inhaled.****H400 Very toxic to aquatic life.****H410 Very toxic to aquatic life with long lasting effects.**• **Card issued by: Technical department.**• **Abbreviations and acronyms:****ADR: Accord européen sur le transport 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 Harmonized System of Classification and Labeling 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)****LC50: Lethal concentration, 50 percent****LD50: Lethal dose, 50 percent****PBT: Persistent, Bioaccumulative and Toxic vPvB:****very Persistent and very Bioaccumulative Acute****Tox. 4: Acute toxicity - Category 4****Skin Sens. 1: Skin sensitization - Category 1 Asp. Tox. 1:****Aspiration Hazard - Category 1****Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1 Aquatic Chronic 1:****Hazardous to the aquatic environment - long-term aquatic hazard - Category 1**• *** Data compared to the previous version altered**