Version number 4 Printing date 25.04.2018 Revision: 25.04.2018

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

#### · 1.1 Product identifier

· Trade name: Amotherm Wood 450 SB Base B

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

Sector of Use

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

· Product category PC9a Coatings and paints, thinners, paint removers

· Process category

PROC10 Roller application or brushing

PROC7 Industrial spraying

PROC11 Non industrial spraying

Environmental release category

ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)

ERC8c Widespread use leading to inclusion into/onto article (indoor)

ERC8d Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)

ERC8f Widespread use leading to inclusion into/onto article (outdoor)

· Application of the substance / the mixture Hardening agent/ Curing agent

#### · 1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

J.F. AMONN srl div. Color

via cima i prà, 7

32014 Ponte nelle Alpi (BL)

ITALIA

· Distributor:

J.F. Amonn SRL/GmbH

I-39100 Bolzano/Bozen

Via Altmann 12 Altmannstraße

Tel.: +39 0471 904-911 - Fax.: +39 0471 910-449

#### · Informing department:

Product safety department.

tecnical department Color Division

phone: +39 0437 98411 email: laboratorio@amonncolor.com

### · 1.4 Emergency telephone number:

National Poisons Information Service (NPIS)

In England and Wales: NHS 111 - dial 111

In Scotland: NHS 24 - dial 111

In N Ireland: Contact your local GP or pharmacist during normal hours; click here (www.gpoutofhours.hscni.net/)

for GP services Out-of-Hours.

In Republic of Ireland: 01 809 2166

#### SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008

H226 Flammable liquid and vapour. Flam. Liq. 3 Eve Irrit. 2 H319 Causes serious eye irritation.

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin Sens. 1 H317 May cause an allergic skin reaction. H336 May cause drowsiness or dizziness. STOT SE 3

· 2.2 Label elements

· Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

· Hazard pictograms







GHS02 GHS07 GHS08

Signal word Danger

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## · Hazard-determining components of labelling:

adduct aromatic polyurethane

n-butyl acetate

m-tolylidene diisocyanate

#### · Hazard statements

H226 Flammable liquid and vapour. H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction. H336 May cause drowsiness or dizziness.

#### · Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P241 Use explosion-proof electrical/ventilating/lighting equipment.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/

international regulations.

#### · Additional information:

EUH066 Repeated exposure may cause skin dryness or cracking.

2.3 Other hazards

- · Results of PBT and vPvB assessment
- PBT: Not applicable.vPvB: Not applicable.

### SECTION 3: Composition/information on ingredients

#### · 3.2 Mixtures

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

· Dangerous components:		
CAS: 123-86-4 EINECS: 204-658-1 Reg.nr.: 01-2119485493-29	n-butyl acetate Flam. Liq. 3, H226; STOT SE 3, H336	25-50%
CAS: 53317-61-6 NLP: 500-120-8	adduct aromatic polyurethane Eye Irrit. 2, H319; Skin Sens. 1, H317	10-25%
CAS: 141-78-6 EINECS: 205-500-4 Reg.nr.: 01-2119475103-46	ethyl acetate Flam. Liq. 2, H225; Acute Tox. 4, H332; Eye Irrit. 2, H319; STOT SE 3, H336	3-7%
CAS: 26471-62-5 EINECS: 247-722-4 Reg.nr.: 01-2119454791-34-XXXX	m-tolylidene diisocyanate Acute Tox. 2, H330; Resp. Sens. 1, H334; Carc. 2, H351; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335; Aquatic Chronic 3, H412	<0.5%

<sup>·</sup> 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

Instantly remove any clothing soiled by the product.

Symptóms of poisóning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

#### · After inhalation

Supply fresh air and call for doctor for safety reasons.

In case of unconsciousness bring patient into stable side position for transport.

- · After skin contact Instantly wash with water and soap and rinse thoroughly.
- · After eye contact Rinse opened eye for several minutes under running water. Then consult doctor.
- · After swallowing Seek immediate medical advice.

#### · 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

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 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, sand, extinguishing powder. Do not use water.
- For safety reasons unsuitable extinguishing agents

Water.

Water with a full water jet.

5.2 Special hazards arising from the substance or mixture

No further relevant information available.

- · 5.3 Advice for firefighters
- · Protective equipment: Put on breathing apparatus.

#### SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

- · 6.2 Environmental precautions: No special measures required.
- · 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose of contaminated material as waste according to item 13.

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

· 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 information on disposal.

## SECTION 7: Handling and storage

- · 7.1 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.
- · Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

- · 7.2 Conditions for safe storage, including any incompatibilities
- Storage
- · Requirements to be met by storerooms and containers:

Store in well closed containers in a cool, well ventilated area. Direct sunshine should be avoided.

- 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

- · Additional information about design of technical systems: No further data; see item 7.
- · 8.1 Control parameters
- Components with limit values that require monitoring at the workplace:

#### 123-86-4 n-butyl acetate (25-50%)

WEL Short-term value: 966 mg/m³, 200 ppm

Long-term value: 724 mg/m³, 150 ppm

## 108-65-6 2-methoxy-1-methylethyl acetate (5-10%)

WEL Short-term value: 548 mg/m³, 100 ppm Long-term value: 274 mg/m³, 50 ppm

Sk

#### 141-78-6 ethyl acetate (3-7%)

WEL Short-term value: 400 ppm

Long-term value: 200 ppm

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26471-62	-5 m-tolylidene diisocyanate (<0.5%)	(Contd. of pa
	ort-term value: 0.07 mg/m³	
Lon	ng-term value: 0.02 mg/m³	
Ser	n; as -NCO	
<b>DNELs</b>		
123-86-4	n-butyl acetate	
Oral	Long-term exposure, systemic effects	2 mg/kg bw/day (Ver)
	Acute, systemic effects	2 mg/kg/day (Ver)
Dermal	Long-term exposure, systemic effects	11 mg/kg bw/day (Arb)
		6 mg/kg bw/day (Ver)
	Acute, local effects	11 mg/kg (Arb)
	Acute, systemic effects	6 mg/kg/day (Ver)
Inhalative	Long-term exposure, systemic effects	300 mg/m³ (Arb)
		35.7 mg/m³ (Ver)
	Long-term exposure, local effects	600 mg/m³ (Arb)
		35.7 mg/m³ (Ver)
	Acute, systemic effects	300 mg/m³ (Arb)
		300 mg/m³ (Ver)
	Acute, local effects	600 mg/m³ (Arb)
		300 mg/m³ (Ver)
141-78-6	ethyl acetate	
Oral	Long-term exposure, systemic effects	4.5 mg/kg bw/day (Ver)
Dermal	Long-term exposure, systemic effects	63 mg/kg bw/day (Arb)
		37 mg/kg bw/day (Ver)
Inhalative	Long-term exposure, systemic effects	734 mg/m³ (Arb)
		367 mg/m³ (Ver)
	Long-term exposure, local effects	1,468 mg/m³ (Arb)
		367 mg/m³ (Ver)
	Acute, systemic effects	734 mg/m³ (Arb)
		734 mg/m³ (Ver)
	Acute, local effects	1,468 mg/m³ (Arb)
		734 mg/m³ (Ver)
<b>PNECs</b>		
123-86-4	n-butyl acetate	
	18 mg/l (freshwater)	
	018 mg/l (Marine Water)	
35	5.6 mg/l (sewage traetmant plant microo	rganisms)
0	36 mg/l (sporadic release)	
PNEC 0.	0903 mg/kg (soil)	
0.	0.981 mg/kg (sediment, freshwater)	
0.0	0.0981 mg/kg (sediment, marine water)	
	ethyl acetate	
	24 mg/l (freshwater)	
0.0	0.024 mg/l (Marine Water)	
65	50 mg/l (sewage traetmant plant microoi	ganisms)
	15 mg/kg (freshwater)	
	148 mg/kg (soil)	
U.	- 3 3 ( /	

- 8.2 Exposure controls
  Personal protective equipment
  General protective and hygienic measures
  Keep away from foodstuffs, beverages and food.
  Take off immediately all contaminated clothing
  Wash hands during breaks and at the end of the work.

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Do not inhale gases / fumes / aerosols.

· Breathing equipment:

Face mask - term filter unit (EN 140):

Filter type A (gas and organic vapours - boiling point >65°C)

Use breathing protection in case of insufficient ventilation.

· 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

Butyl rubber, BR

Nitrile rubber, NBR

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:

Use safety glasses with side shields to prevent accidental splash of liquids.

Tightly sealed safety glasses.

· Body protection: Light weight protective clothing

9.1 Information on basic physical and ca General Information	hemical properties
Appearance:	
Form:	Fluid
Colour:	Colourless
Odour:	Solvent-like
Odour threshold:	Not determined.
pH-value:	Not determined.
Change in condition Melting point/freezing point: Initial boiling point and boiling range:	Not determined 77 °C
Flash point:	>23 °C
Inflammability (solid, gaseous)	Not applicable.
Ignition temperature:	315 ℃
Decomposition temperature:	Not determined.
Self-inflammability:	Product is not selfigniting.
Explosive properties:	Product is not explosive. However, formation o explosive air/steam mixtures is possible.
Critical values for explosion:	
Lower:	1,2 Vol %
Upper:	7,5 Vol %
Vapour pressure at 20 °C:	15 hPa
Density at 20 °C	1,03 g/cm³
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	Al control of the second of th
Water:	Not miscible or difficult to mix

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· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity: dynamic: kinematic:	Not determined. Not determined.
· Solvent content: Organic solvents:	63,0 %
Solids content:  · 9.2 Other information	37,0 % No further relevant information available.

## 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 No further relevant information available.
- · 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known

## SECTION 11: Toxicological information

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

· LD/LC50 \	· LD/LC50 values that are relevant for classification:		
123-86-4 ı	123-86-4 n-butyl acetate		
		10,760 mg/kg (rat)	
		>14,000 mg/kg (rab)	
Inhalative	LC50/4 h	>23.4 mg/l (rat) (OECD 403 Acute Inhalation Toxicity)	
	141-78-6 ethyl acetate		
		5,620 mg/kg (rat)	
Inhalative	LC50/4 h	11.72 mg/l (rat)	
	26471-62-5 m-tolylidene diisocyanate		
Inhalative	LC50/4 h	0.5 mg/l (ATE)	

- · Primary irritant effect:
- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation

Causes serious eye irritation.

· Respiratory or skin sensitisation

May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

- · CMR effects (carcinogenity, 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.
- · STOT-single exposure

May cause drowsiness or dizziness.

- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.

## SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.

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- · 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 bodies or sewage system.

- · 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- 12.6 Other adverse effects No further relevant information available.

## SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· European waste catalogue

08 01 11\* waste paint and varnish containing organic solvents or other dangerous substances

- · Uncleaned packagings:
- **Recommendation:** Disposal must be made according to official regulations.

· 14.1 UN-Number · ADR, IMDG, IATA	UN1263	
· 14.2 UN proper shipping name · ADR · IMDG, IATA	1263 PAINT PAINT	
· 14.3 Transport hazard class(es)		
· ADR		
· Class · Label	3 (F1) Flammable liquids. 3	
· Laber · IMDG, IATA	3	
3		
· Class	3 Flammable liquids.	
· Label	3	
· 14.4 Packing group · ADR, IMDG, IATA	III	
· 14.5 Environmental hazards: · Marine pollutant:	No	
· 14.6 Special precautions for user	Warning: Flammable liquids.	
· Kemler Number: · EMS Number:	30 E E S E	
Stowage Category	F-E, <u>S-E</u> B	

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· Transport/Additional information:	
· ADR · Excepted quantities (EQ): · Limited quantities (LQ) · Excepted quantities (EQ)	E2 5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 100 ml
Transport category Tunnel restriction code	3 D/E
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	5L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 m.
· UN "Model Regulation":	UN 1263 PAINT, 3, III

### SECTION 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Qualifying quantity (tonnes) for the application of lower-tier requirements 5.000 t
- · Qualifying quantity (tonnes) for the application of upper-tier requirements 50.000 t
- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 40
- · National regulations
- · Technical instructions (air):

Class	Share in %
Wasser	0.7
I	0.3
NK	63.0

- · Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### **SECTION 16: Other information**

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### · Relevant phrases

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H330 Fatal if inhaled.

H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H351 Suspected of causing cancer.

H412 Harmful to aquatic life with long lasting effects.

· Department issuing data specification sheet: Environment protection 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 Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances

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# Safety data sheet according to 1907/2006/EC, Article 31

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CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (REACH) PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Liq. 2: Flammable liquids – Category 2 Flam. Liq. 3: Flammable liquids – Category 3 Acute Tox. 2: Acute toxicity – Category 2 Acute Tox. 4: Acute toxicity – Category 4 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 Resp. Sens. 1: Respiratory sensitisation – Category 1 Skin Sens. 1: Skin sensitisation – Category 1 Carc. 2: Carcinogenicity – Category 2

Carc. 2: Carcinogenicity - Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

\* Data compared to the previous version altered.