Printing date 03/23/2017 Version No. 4 Reviewed on 03/23/2017

## 1 Identification

- · Trade name: Pallmann P 108 Comp. B
- · Application of the substance / the mixture

2-component epoxy resin primer for moisture vapor reduction (component B)

- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

Manufacturer:

PALLMANN GmbH

Im Kreuz 6

D-97076 Würzburg

Germany

Phone +49 931-27964-0 Fax +49 931-27964-50

Supplier:

UFLOOR Systems Inc.

14509 E. 33rd. Place, Unit G

Aurora, CO 80011 Phone: +720-374-4810 Toll-Free: +1 866-505-4810 Fax: +1 720-374-2113

· Information department:

Products Development Lab E-Mail: msds.info@uzin-utz.com

· Emergency telephone number:

For Chemical Emergency Spill Leak Fire Exposure or Accident

Call CHEMTREC Day or Night: DOMESTIC NORTH AMERICA 800-424-9300

International, call +49 621 60 43 333

## 2 Hazard(s) identification

· Classification of the substance or mixture



GHS05 Corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.



GHS09 Environment

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



Acute Tox. 4 H302 Harmful if swallowed.

Skin Sens. 1 H317 May cause an allergic skin reaction.

- · Label elements
- · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

- · Hazard pictograms GHS05, GHS07, GHS09
- · Signal word Danger
- · Hazard-determining components of labeling:

*m-phenylenebis*(*methylamine*)

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3-aminomethyl-3,5,5-trimethylcyclohexylamine

Polyoxy propyle nediamine

Phenol, styrenated

Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine

#### · Hazard statements

Harmful if swallowed.

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

Toxic to aquatic life with long lasting effects.

### · Precautionary statements

Wear protective gloves/protective clothing/eye protection/face protection.

Avoid release to the environment.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

If skin irritation or rash occurs: Get medical advice/attention.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If swallowed: Rinse mouth. Do NOT induce vomiting.

Immediately call a POISON CENTER/doctor.

Dispose of contents/container in accordance with local/regional/national/international regulations.

· NFPA ratings (scale 0 - 4)



Health = 3Flammability = 1Reactivity = 0

· HMIS-ratings (scale 0 - 4)



3 Health = 3Flammability = 1

· Other hazards

NFPA Rating Scale: 0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe.

NFPA is the National Fire Protection Association.

HMIS Rating Scale: 0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe.

HMIS®, the Hazardous Materials Identification System, is a registered mark of the National Paint and Coatings Association (NPCA).

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

## 3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description: Mixture of the substances listed below with nonhazardous additions.

· Hazardous ingredients:			
CAS: 1477-55-0	m-phenylenebis(methylamine) Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Sens. 1, H317; Aquatic Acute 3, H402; Aquatic Chronic 3, H412	10 - <25%	
CAS: 61788-44-1	Phenol, styrenated  Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Acute 2, H401	10 - <25%	
	(Co	ontd. on page 3)	

Trade name: Pallmann P 108 Comp. B

	(C	Contd. of page 2)
CAS: 2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	10 - <25%
	Skin Corr. 1B, H314; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317; Aquatic Chronic 3, H412	
CAS: 68082-29-1	Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	10 - <25%
	💠 Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317	
CAS: 9046-10-0	Polyoxypropylenediamine	5 - <10%
	Skin Corr. 1B, H314; Eye Dam. 1, H318; 🔷 Aquatic Chronic 2, H411; Aquatic Acute 3, H402	
CAS: 90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	5 - <10%
	🗘 Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2A, H319	
CAS: 112-53-8	1-Dodecanol	3 - <5%
	🔖 Aquatic Acute 1, H400; Aquatic Chronic 1, H410; 🐠 Skin Irrit. 2, H315	

#### · Additional information:

The exact percentages of the ingredients have been withheld by the manufacturer as trade secrets. For the wording of the listed hazard phrases refer to section 16.

## 4 First-aid measures

- · 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 wash with water and soap and rinse thoroughly.
- · After eye contact:

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Call a doctor.

- · After swallowing: Do not induce vomiting; immediately call for medical help.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed Allergic reactions
- · Indication of any immediate medical attention and special treatment needed No further relevant information available.

## 5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:

CO2 extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.
- · Additional information: Flash point:  $> 100 \, ^{\circ}C \, (> 212 \, ^{\circ}F)$ .

### 6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation
- · Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · 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 item 13.

· Reference to other sections

See Section 7 for information on safe handling.

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Trade name: Pallmann P 108 Comp. B

(Contd. of page 3)

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

· Protective Action Criteria for Chemicals

Trovewre remain criteria for chemicals				
· PAC-1:				
CAS: 90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	6.5 mg/m3		
CAS: 112-53-8	1-Dodecanol	12 mg/m3		
· PAC-2:				
CAS: 90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	72 mg/m3		
CAS: 112-53-8	1-Dodecanol	140 mg/m3		
· PAC-3:				
CAS: 90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	430 mg/m3		
CAS: 112-53-8	1-Dodecanol	820 mg/m3		

## 7 Handling and storage

- · Handling:
- · Precautions for safe handling

Wear suitable protective clothing, gloves and eye/face protection.

Immediately remove all soiled and contaminated clothing.

Keep away from foodstuffs, beverages and feed.

Avoid contact with the eyes and skin.

Wash hands before breaks and at the end of work.

- · Information about protection against explosions and fires: No special measures required.
- · 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 receptacle tightly sealed.

Protect from frost.

· Specific end use(s) No further relevant information available.

## 8 Exposure controls/personal protection

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

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

Immediately remove all soiled and contaminated clothing.

Wear suitable protective clothing, gloves and eye/face protection.

Keep away from foodstuffs, beverages and feed.

Avoid contact with the eyes and skin.

Wash hands before breaks and at the end of work.

• Respiratory protection: Not necessary. Ensure that room is well-ventilated during processing.

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# Safety Data Sheet acc. to OSHA HCS

Trade name: Pallmann P 108 Comp. B

· Protection of hands:



Use gloves of stable material (e.g. Nitrile) - if necessary tricoted to improve the wearability.

· Material of gloves

Butyl rubber, BR Nitrile rubber, NBR

Recommended thickness of the material:  $\geq 0.5$  mm

· 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:



Tightly sealed goggles

9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

Form: Fluid
Color: Brown

Odor: Fish-like

Odor threshold: Not determined.

· pH-value at 20 °C (68 °F): 11

· Change in condition

Melting point/Melting range: Undetermined.
Boiling point/Boiling range: Undetermined.

• Flash point:  $> 100 \, ^{\circ}C \, (> 212 \, ^{\circ}F)$ 

· Flammability (solid, gaseous): Not applicable.

• Ignition temperature:  $> 200 \, ^{\circ}C \, (> 392 \, ^{\circ}F)$ 

· Decomposition temperature: Not determined.

· Auto igniting: Product is not selfigniting.

· Danger of explosion: Product does not present an explosion hazard.

· Explosion limits:

Lower:Not determined.Upper:Not determined.

· Vapor pressure: Not determined.

• **Density at 20** °**C** (**68** °**F**):  $1.0 \text{ g/cm}^3 (8.345 \text{ lbs/gal})$ 

Relative density
 Vapor density
 Evaporation rate
 Not determined.
 Not determined.

· Solubility in / Miscibility with

Water: Not miscible or difficult to mix.

· Partition coefficient (n-octanol/water): Not determined.

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Trade name: Pallmann P 108 Comp. B

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· Viscosity:

Dynamic at 20 °C (68 °F): 900 mPas Kinematic: Not determined.

• *Other information No further relevant information available.* 

## 10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions Strong exothermic reaction with acids.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products:

Corrosive gases/vapors

At elevated temperatures hazardous decomposition products such as carbon dioxide, carbon monoxide, smoke or nitric oxids may be evolved.

## 11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

· LD/LC5	LD/LC50 values that are relevant for classification:				
CAS: 1477-55-0 m-phenylenebis(methylamine)					
Oral	LD50	1040 mg/kg (rat)			
CAS: 2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine					
Oral	LD50	1030 mg/kg (rat) (OECD 401)			
		Aus SDB ipox EH 2081-1 vom 17.01.2015			
Dermal	LD50	1840 mg/kg (rabbit)			
		aus SDB CeTePox 1595 NF H vom 15.06.2015			
CAS: 112-53-8 1-Dodecanol					
Oral	LD50	12800 mg/kg (rat)			

- · Specific symptoms in biological assay:
- · Primary route(s) of entry: Inhalation, skin contact, eye contact, ingestion.
- · Primary irritant effect:
- · on the skin: Caustic effect on skin and mucous membranes.
- · on the eye: Strong caustic effect.
- · Sensitization: Sensitization possible through skin contact.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for mixtures: Harmful

Corrosive

- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

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Trade name: Pallmann P 108 Comp. B

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### · OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

## 12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- · Remark: Toxic for fish
- · Additional ecological information:
- · General notes:

Do not allow product to reach ground water, water course or sewage system.

Toxic for aquatic organisms

Also poisonous for fish and plankton in water bodies.

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

## 13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

The product contains materials that are harmful to the environment.

Do not allow product to reach ground water, water course or sewage system.

Disposal should be in accordance with local, state or national legislation.

- · Uncleaned packagings:
- · Recommendation:

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

## 14 Transport information

· DOT, ADR, IMDG, IATA	UN2735
· UN proper shipping name	
$\cdot DOT$	Polyamines, liquid, corrosive, n.o.s. (m-phenylenebis(methylamine),
	Isophoronediamine)
$\cdot ADR$	2735 Polyamines, liquid, corrosive, n.o.s. (m-phenylenebis(methylamine),
	Isophoronediamine), ENVIRONMENTALLY HAZARDOUS
$\cdot$ $IMDG$	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine),
	ISOPHORONEDIAMINE), MARINE POLLUTANT
· IATA	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine),
	ISOPHORONEDIAMINE)

(Contd. on page 8)

Trade name: Pallmann P 108 Comp. B

(Contd. of page 7)

 $\cdot DOT$ 



· Class 8 Corrosive substances

· Label

· IMDG





· Class 8 Corrosive substances

· Label 8

 $\cdot$  IATA



· Class 8 Corrosive substances

· Label 8 · DOT, IMDG, IATA III

• Environmental hazards: Product contains environmentally hazardous substances: 1-Dodecanol

· Marine pollutant: Yes

Symbol (fish and tree)

· Special marking (ADR): Symbol (fish and tree)

· Special precautions for user Warning: Corrosive substances

EMS Number: F-A,S-B
Segregation groups Alkalis
Stowage Category A

· Segregation Code SG35 Stow "separated from" acids.

· UN "Model Regulation": UN 2735 POLYAMINES, LIQUID, CORROSIVE, N.O.S. (M-

PHENYLENEBIS(METHYLAMINE), ISOPHORONEDIAMINE), 8, III,

ENVIRONMENTALLY HAZARDOUS

## 15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · SARA (Superfund Amendments and Reauthorization Act)
- · EPCRA Section 302 (Extremely Hazardous Substances):

None of the ingredient is listed.

· SARA Title III Section 313 (Toxic Release Inventory - TRI):

None of the ingredients is listed.

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

- · Proposition 65 (California)
- · Chemicals known to cause cancer:

None of the ingredients is listed.

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Trade name: Pallmann P 108 Comp. B

(Contd. of page 8)

#### · Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

#### · Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

### · Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

### · Cancerogenity categories

#### · EPA (Environmental Protection Agency)

None of the ingredients is listed.

### · TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

#### · NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

#### · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

- · Hazard pictograms GHS05, GHS07, GHS09
- · Signal word Danger

#### · Hazard-determining components of labeling:

*m-phenylenebis*(*methylamine*)

3-aminomethyl-3,5,5-trimethylcyclohexylamine

Polyoxypropylenediamine

Phenol, styrenated

Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine

#### · Hazard statements

Harmful if swallowed.

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

Toxic to aquatic life with long lasting effects.

#### · Precautionary statements

Wear protective gloves/protective clothing/eye protection/face protection.

Avoid release to the environment.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

If skin irritation or rash occurs: Get medical advice/attention.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If swallowed: Rinse mouth. Do NOT induce vomiting.

Immediately call a POISON CENTER/doctor.

Dispose of contents/container in accordance with local/regional/national/international regulations.

## 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.

- · Recommended restriction of use For professional use only.
- · Contact:

*USA: Daniel Gill, phone* + 1 720-374-4810

Germany: Dr. Koette, Tel. +49 931.279.6425

- · Date of preparation / last revision 03/23/2017 / 3
- · 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)

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ICAO: International Civil Aviation Organisation

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

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists 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)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit REL: Recommended Exposure Limit

Acute Tox. 4: Acute toxicity - Category 4

Skin Corr. 1B: Skin corrosion/irritation - Category 1B

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation - Category 1

Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A

Skin Sens. 1: Skin sensitisation – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1

Aquatic Acute 2: Hazardous to the aquatic environment - acute aquatic hazard - Category 2

Aquatic Acute 3: Hazardous to the aquatic environment - acute aquatic hazard - Category 3

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category I

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3

\* Data compared to the previous version altered.