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.

  GHS07
  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)

(Contd. on page 2)
Trade name: Pallmann P 108 Comp. B

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.

- **NFPA ratings (scale 0 - 4)**
  - Health = 3
  - Flammability = 1
  - Reactivity = 0

- **HMIS-ratings (scale 0 - 4)**
  - HEALTH
  - Health = 3
  - Flammability = 1
  - Reactivity = 0

- **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%

(Contd. on page 3)
### 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**

**Advice for firefighters**
- Protective equipment: Mouth respiratory protective device.

**Additional information:** Flash point: > 100 °C (> 212°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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**Addition 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.
Trade name: Pallmann P 108 Comp. B

See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7. Protective Action 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

8. 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.

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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.
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 °C (> 212 °F)

- Flammability (solid, gaseous): Not applicable.

- Ignition temperature: > 200 °C (> 392 °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 g/cm³ (8.345 lbs/gal)
- Relative density: Not determined.
- Vapor density: Not determined.
- Evaporation rate: Not determined.

- Solubility in / Miscibility with Water: Not miscible or difficult to mix.

- Partition coefficient (n-octanol/water): Not determined.
Trade name: Pallmann P 108 Comp. B

- 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/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)
      - 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.
**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.
- **Ecotoxic 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
  - DOT: Polyamines, liquid, corrosive, n.o.s. (m-phenylenebis(methylamine), Isophoronediamine)
  - ADR: 2735 Polyamines, liquid, corrosive, n.o.s. (m-phenylenebis(methylamine), Isophoronediamine), ENVIRONMENTALLY HAZARDOUS
  - IMDG: POLYAMINES, LIQUID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine), ISOPHORONEDIAMINE), MARINE POLLUTANT
  - IATA: POLYAMINES, LIQUID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine), ISOPHORONEDIAMINE)
Trade name: Pallmann P 108 Comp. B

44.1.7

· DOT

- Class 8 Corrosive substances
- Label 8

· IMDG

- Class 8 Corrosive substances
- Label 8

· 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.
44.1.7 · 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
  Polyoxypolypropylenediamine
  Phenol, styrenated
  Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethyleneetetramine

· 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)
Trade name: Pallmann P 108 Comp. B

(Contd. of page 9)

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 1
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.