SECTION 1: IDENTIFICATION

Trade name: nora® DPM 100 B

- Application of the substance / the mixture: 2-Part epoxy damp proof membrane (component B)
- Details of the supplier of the safety data sheet
- Manufacturer/Supplier:
  nora systems, Inc.
  9 Northeastern Blvd.
  Salem, NH 03079
  Toll-Free: 800-332-NORA
- Information department: see Manufacturer/Supplier
- Emergency telephone number: 800-424-9300 CHEMTREC

SECTION 2: HAZARD(S) IDENTIFICATION

- Classification of the substance or mixture

![GHS05 Corrosion]

GHS05 Corrosion

- skin Corr. 1B: H314 Causes severe skin burns and eye damage.
- Eye Dam. 1: H318 Causes serious eye damage.

![GHS09 Environment]

GHS09 Environment

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

![GHS07]

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)
  - 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

Avoid release to the environment.
Wear protective gloves/protective clothing/eye protection/face protection.

If swallowed: Rinse mouth. Do NOT induce vomiting.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
If in eyes: Rinse causiously 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.
If skin irritation or rash occurs: Get medical advice/attention.
Dispose of contents/container in accordance with local/regional/national/international regulations.

- NFPA ratings (scale 0 - 4)

```
1 3 0
Health = 3
Flammability = 1
Reactivity = 0
```

- HMIS-ratings (scale 0 - 4)

```
HEALTH 3
FIRE 1
REACTIVITY 0
```

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

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

- Chemical characterization: Mixtures

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

<table>
<thead>
<tr>
<th>CAS: 1477-55-0</th>
<th>m-phenylenebis(methylamine)</th>
<th>10 - &lt;25%</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Skin Corr. 1B, H314; Eye Dam. 1, H318;</td>
<td>Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Sens. 1, H317; Aquatic Acute 3, H402; Aquatic Chronic 3, H412</td>
</tr>
</tbody>
</table>
nora® DPM 100 B
Safety Data Sheet
acc. to OSHA HCS

<table>
<thead>
<tr>
<th>CAS: 61788-44-1</th>
<th>Phenol, styrenated</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Acute 2, H401</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAS: 2855-13-2</th>
<th>3-aminomethyl-3,5,5-trimethylcyclohexylamine</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Skin Corr. 1B, H314; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317; Aquatic Chronic 3, H412</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAS: 68082-29-1</th>
<th>Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAS: 9046-10-0</th>
<th>Polyoxypolypropylenediamine</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Skin Corr. 1B, H314; Eye Dam. 1, H318; Aquatic Chronic 2, H411; Aquatic Acute 3, H402</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAS: 90-72-2</th>
<th>2,4,6-tris(dimethylaminomethyl)phenol</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2A, H319</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAS: 112-53-8</th>
<th>1-Dodecanol</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315</td>
</tr>
</tbody>
</table>

- 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.

SECTION 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

SECTION 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 °C (> 212°F).

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

Protective Action Criteria for Chemicals

<table>
<thead>
<tr>
<th>PAC-1:</th>
<th>CAS: 90-72-2</th>
<th>2,4,6-tris(dimethylaminomethyl)phenol</th>
<th>6.5 mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS: 112-53-8</td>
<td>1-Dodecanol</td>
<td></td>
<td>12 mg/m³</td>
</tr>
<tr>
<td>PAC-2:</td>
<td>CAS: 90-72-2</td>
<td>2,4,6-tris(dimethylaminomethyl)phenol</td>
<td>72 mg/m³</td>
</tr>
<tr>
<td>CAS: 112-53-8</td>
<td>1-Dodecanol</td>
<td></td>
<td>140 mg/m³</td>
</tr>
<tr>
<td>PAC-3:</td>
<td>CAS: 90-72-2</td>
<td>2,4,6-tris(dimethylaminomethyl)phenol</td>
<td>430 mg/m³</td>
</tr>
<tr>
<td>CAS: 112-53-8</td>
<td>1-Dodecanol</td>
<td></td>
<td>820 mg/m³</td>
</tr>
</tbody>
</table>

SECTION 7: HANDLING AND STORAGE

Handling:
Wear suitable protective clothing, gloves and eye/face protection.
Immediately remove all soiled and contaminated clothing.
Avoid contact with the eyes and skin.
Keep away from foodstuffs, beverages and feed.
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.

SECTION 8: EXPOSURE CONTROLS/PERSOAL 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.
nora® DPM 100 B
Safety Data Sheet
acc. to OSHA HCS

- 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.
    Avoid contact with the eyes and skin.
    Keep away from foodstuffs, beverages and feed.
    Wash hands before breaks and at the end of work.
- Respiratory protection: Not necessary. Ensure that room is well-ventilated during processing.
- 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: ≥ 0.5 mm

- Eye protection:
  Tightly sealed goggles

SECTION 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 at 20 °C (68 °F): 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.

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

· Other information No further relevant information available.

SECTION 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 gas/vapors
  At elevated temperatures hazardous decomposition products such as carbon dioxide, carbon monoxide, smoke or nitric oxides may be evolved.

SECTION 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 1,040 mg/kg (rat)
    CAS: 2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine
    Oral LD50 1,030 mg/kg (rat) (OECD 401)
    Dermal LD50 1,840 mg/kg (rabbit)
    CAS: 112-53-8 1-Dodecanol
    Oral LD50 12,800 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.
· 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.
  · OSHA-Ca (Occupational Safety & Health Administration)
    None of the ingredients is listed.

SECTION 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.
· Ecotoxicical 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.

SECTION 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.
### SECTION 14: TRANSPORT INFORMATION

<table>
<thead>
<tr>
<th>DOT, ADR, IMDG, IATA</th>
<th>UN2735</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN proper shipping name</td>
<td></td>
</tr>
<tr>
<td>DOT</td>
<td>Polyamines, liquid, corrosive, n.o.s. (m-phenylenebis(methylamine), Isophoronediamine)</td>
</tr>
<tr>
<td>ADR</td>
<td>2735 Polyamines, liquid, corrosive, n.o.s. (m-phenylenebis(methylamine), Isophoronediamine), ENVIRONMENTALLY HAZARDOUS</td>
</tr>
<tr>
<td>IMDG</td>
<td>POLYAMINES, LIQUID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine), ISOPHORONEDIAMINE), MARINE POLLUTANT</td>
</tr>
<tr>
<td>IATA</td>
<td>POLYAMINES, LIQUID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine), ISOPHORONEDIAMINE)</td>
</tr>
<tr>
<td>DOT</td>
<td></td>
</tr>
</tbody>
</table>

| 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 |
**SECTION 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. |

- 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. |

- Carcinogenicity 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
Avoid release to the environment.
Wear protective gloves/protective clothing/eye protection/face protection.
If ON SKIN: Wash with plenty of soap and water.
If swallowed: Rinse mouth. Do NOT induce vomiting.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER/doctor.
If skin irritation or rash occurs: Get medical advice/attention.
Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 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.

Contact: see Manufacturer/Supplier
Date of preparation / last revision: 11/29/2017
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) 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