SECTION 1: IDENTIFICATION

Trade name: nora® DPM 100 A

- Application of the substance / the mixture: 2-Part epoxy damp proof membrane (component A)
- 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

  GHS09 Environment
  Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

  GHS07
  Skin Irrit. 2   H315 Causes skin irritation.
  Eye Irrit. 2A  H319 Causes serious eye irritation.
  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 GHS07, GHS09
- Signal word Warning

- Hazard-determining components of labeling:
  reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (with an average molecular weight ≤ 700)
  reaction product: bisphenol-F-(epichlorhydrin); epoxy resin (with an average molecular weight ≤ 700)
  oxirane, mono[(C12-14-alkyloxy)methyl] derivs

- Hazard statements
  Causes skin irritation.
  Causes serious eye irritation.
  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 in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If skin irritation or rash occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Dispose of contents/container in accordance with local/regional/national/international regulations.

- NFPA ratings (scale 0 - 4)

Health = 2
Flammability = 1
Reactivity = 0

- HMIS-ratings (scale 0 - 4)

Health = 2
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: 25068-38-6</th>
<th>reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (with an average molecular weight ≤ 700)</th>
<th>50-75%</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Aquatic Chronic 2, H411;</strong> Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317</td>
<td></td>
</tr>
<tr>
<td>CAS: 9003-36-5</td>
<td>reaction product: bisphenol-F-(epichlorhydrin); epoxy resin (with an average molecular weight ≤ 700)</td>
<td>10 - &lt;25%</td>
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<tr>
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<td><strong>Aquatic Chronic 2, H411;</strong> Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317;</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Aquatic Acute 2, H401</strong></td>
<td></td>
</tr>
<tr>
<td>CAS: 68609-97-2</td>
<td>oxirane, mono[[C12-14-alkyloxy)methyl] derivs</td>
<td>10 - &lt;25%</td>
</tr>
<tr>
<td></td>
<td><strong>Skin Irrit. 2, H315; Skin Sens. 1, H317</strong></td>
<td></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
  Also observe SDS of component B.

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

| PAC-1: | CAS: 25068-38-6 | reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (with an average molecular weight ≤ 700) | 90 mg/m³ |
| PAC-2: | CAS: 25068-38-6 | reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (with an average molecular weight ≤ 700) | 990 mg/m³ |
| PAC-3: |
nora® DPM 100 A
Safety Data Sheet
acc. to OSHA HCS

CAS: 25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (with an average molecular weight ≤ 700) 5,900 mg/m³

SECTION 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.
    Avoid contact with the eyes and skin.
    Keep away from foodstuffs, beverages and feed.
    Do not eat or drink while working.
    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 humidity and water.
      Protect from frost.
    · 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.
· 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.
  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

- Penetration time of glove material
  The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- Eye protection:
  Tightly sealed goggles

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

- Information on basic physical and chemical properties
- General Information
  - Appearance:
    - Form: Liquid
    - Color: Yellowish
    - Odor: Light
  - Change in condition
    - Melting point/Melting range: Undetermined.
    - Boiling point/Boiling range: Undetermined.
- Flash point: > 100 °C (> 212 °F)
- Auto igniting: Product is not selfigniting.
- Danger of explosion: Product does not present an explosion hazard.
- Vapor pressure at 20 °C (68 °F): 5 hPa (4 mm Hg)
- Density at 20 °C (68 °F): 1.1 g/cm³ (9.18 lbs/gal)
- Solubility in / Miscibility with Water: Not miscible or difficult to mix.
- Viscosity:
  - Dynamic at 20 °C (68 °F): 1500 mPas
- 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
  May produce violent reactions with bases and numerous organic substances including alcohols and amines.
  Exothermic polymerization.
- Conditions to avoid No further relevant information available.
- Incompatible materials: No further relevant information available.
- Hazardous decomposition products:
  Irritant gases/vapors
At elevated temperatures hazardous decomposition products such as carbon dioxide, carbon monoxide, smoke or nitric oxids may be evolved.

**SECTION 11: TOXICOLOGICAL INFORMATION**
- Information on toxicological effects
- Acute toxicity:
  - Specific symptoms in biological assay:
  - Primary route(s) of entry: Skin contact, eye contact, ingestion.
- Primary irritant effect:
  - on the skin: Irritant to skin and mucous membranes.
  - on the eye: Irritating 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.
- Ecotoxicological 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**
- 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

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<td>ADR, IMDG, IATA</td>
<td>UN3082</td>
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<tr>
<td>UN proper shipping name</td>
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<tr>
<td>DOT</td>
<td>Void</td>
</tr>
<tr>
<td>ADR</td>
<td>3082 Environmentally hazardous substances, liquid, n.o.s. (Bisphenol-Aepoxy resin (average molecular weight ≤ 700), Bisphenol-F-epoxy resin (average molecular weight ≤ 700))</td>
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<td>IMDG</td>
<td>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol-A-epoxy resin (average molecular weight ≤ 700), Bisphenol-F-epoxy resin (average molecular weight ≤ 700), MARINE POLLUTANT</td>
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<td>IATA</td>
<td>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol-A-epoxy resin (average molecular weight ≤ 700), Bisphenol-F-epoxy resin (average molecular weight ≤ 700))</td>
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<tr>
<td>DOT</td>
<td>Void</td>
</tr>
<tr>
<td>Class</td>
<td>Void</td>
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</tr>
<tr>
<td>DOT</td>
</tr>
<tr>
<td>IMDG, IATA</td>
</tr>
</tbody>
</table>

- Environmental hazards:
  - Marine pollutant: Yes
    Symbol (fish and tree)
  - Special marking (ADR): Symbol (fish and tree)
  - Special marking (IATA): Symbol (fish and tree)

- Special precautions for user: Warning: Miscellaneous dangerous substances and articles
  - EMS Number: F-A,S-F
  - Storage Category: A
  - Stowage Category: A
· Transport/Additional information: Not regulated as hazardous material according to the above specifications.
· DOT
· Remarks:
  Not regulated under DOT.
  In accordance with 49 CFR 171.22 this material will be transported in the U.S. as described, marked and labeled in accordance with the IMDG Code.
· UN "Model Regulation":
  UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (BISPHENOL-A-EPOXY RESIN (AVERAGE MOLECULAR WEIGHT ≤ 700), BISPHENOL-F-EPOXY RESIN (AVERAGE MOLECULAR WEIGHT ≤ 700)), 9, III

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 GHS07, GHS09
  · Signal word Warning
  · Hazard-determining components of labeling:
    reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (with an average molecular weight ≤ 700)
    reaction product: bisphenol-F-(epichlorhydrin); epoxy resin (with an average molecular weight ≤ 700)
    oxirane, mono[(C12-14-alkyloxy)methyl] derivs
- Hazard statements
  Causes skin irritation.
  Causes serious eye irritation.
  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 in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
  Continue rinsing.
  If skin irritation or rash occurs: Get medical advice/attention.
  If eye irritation persists: 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:
  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)
  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
  Skin Irrit. 2: Skin corrosion/irritation – Category 2
  Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
  Skin Sens. 1: Skin sensitisation – Category 1
Aquatic Acute 2: Hazardous to the aquatic environment - acute aquatic hazard – Category 2
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2