

## 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  $\leq 700$ )

reaction product: bisphenol-F-(epichlorhydrin); epoxy resin (with an average molecular weight  $\leq 700$ )

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.

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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
FIRE	1
REACTIVITY	0

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

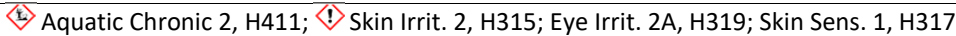
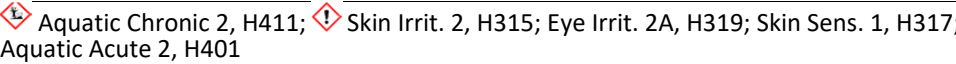
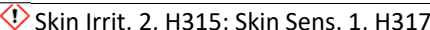
· PBT: Not applicable.

· vPvB: Not applicable.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

· Chemical characterization: Mixtures

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

· Hazardous ingredients:		
CAS: 25068-38-6	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (with an average molecular weight $\leq$ 700) 	50-75%
CAS: 9003-36-5	reaction product: bisphenol-F-(epichlorhydrin); epoxy resin (with an average molecular weight $\leq$ 700) 	10 - <25%
CAS: 68609-97-2	oxirane, mono[(C12-14-alkyloxy)methyl] derivs 	10 - <25%

· Additional information:

The exact percentages of the ingredients have been withheld by the manufacturer as trade secrets.

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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:  
CO<sub>2</sub>, 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/m <sup>3</sup>
· PAC-2:		
CAS: 25068-38-6	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (with an average molecular weight ≤ 700)	990 mg/m <sup>3</sup>
· PAC-3:		

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CAS: 25068-38-6	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (with an average molecular weight $\leq$ 700)	5,900 mg/m <sup>3</sup>
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### 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

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Butyl rubber, BR

Nitrile rubber, NBR

Recommended thickness of the material:  $\geq 0.5$  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/cm <sup>3</sup> (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

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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:
- 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.

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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

· DOT	Void
· ADR, IMDG, IATA	UN3082
· UN proper shipping name	
· DOT	Void
· ADR	3082 Environmentally hazardous substances, liquid, n.o.s. (Bisphenol-A-epoxy resin (average molecular weight ≤ 700), Bisphenol-F-epoxy resin (average molecular weight ≤ 700))
· IMDG	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
· IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol-A-epoxy resin (average molecular weight ≤ 700), Bisphenol-F-epoxy resin (average molecular weight ≤ 700))
· DOT	
· Class	Void
· IMDG, IATA	
	
· Class	9 Miscellaneous dangerous substances and articles
· Label	9
· DOT	Void
· IMDG, IATA	III
· 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

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· 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



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### · 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

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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