



**MERECO**

# Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 07/14/2009

Version 1

Reviewed on 07/14/2009

## 1 Identification of substance

- **Trade name:** Mereco XLN-489 Base Black
- **Application of the substance / the preparation** Epoxy resin
- **Manufacturer/Supplier:** Mereco Division  
Metachem Resins Corporation  
1505 Main Street  
West Warwick, RI 02893  
USA Phone +1 / 401 / 822-9300
- **Information department:** Technical department.  
email = [info@mereco.com](mailto:info@mereco.com)
- **Emergency information:** Telephone: (401) 822-9300

## 2 Composition/Data on components

- **Chemical characterization**
- **Description:** Mixture of the substances listed below with non-hazardous additions.

· <b>Components:</b>	
Mineral filler	Xi; R 36/37/38
Diglycidyl Ether Bisphenol-A epoxy resin	Xi, N; R 36/38-43-51/53
Reactive diluent	Xn, Xi; R 20/22-36/37-40-43-68-52/53

- **Additional information:** For the wording of the listed risk phrases refer to section 16.  
This resin is a blended mixture of liquid resins and mineral, ceramic or organic fillers. These fillers do not pose airborne hazards to the user of this formulated product because they are completely encapsulated in the resin mass. If any of the specific fillers are hazardous in accordance with Section 313 of the Emergency Planning and Community Right-to-know Act (EPCRA) they are identified in section 15 of this MSDS (SARA Section 313).

## 3 Hazards identification

- **Hazard description:** Xn Harmful  
N Dangerous for the environment
- **Information pertaining to particular dangers for man and environment:** The product has to be labelled due to the calculation procedure of international guidelines.  
R 36/37/38 Irritating to eyes, respiratory system and skin.  
R 40 Limited evidence of a carcinogenic effect.

(Contd. on page 2)

# Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 07/14/2009

Version 1

Reviewed on 07/14/2009

**Trade name: Mereco XLN-489 Base Black**

(Contd. from page 1)

- |                                     |   |   |
|-------------------------------------|---|---|
|                                     | R 43  | May cause sensitisation by skin contact.  |
|                                     | R 51/53   | Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
|                                     | R 68  | Possible risk of irreversible effects.  |
|                                     | Contains epoxy constituents. See information supplied by the manufacturer.  |   |
| <b>· Classification system:</b>     | The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data. |   |
| <b>· NFPA ratings (scale 0 - 4)</b> | Health = 3  |   |
|                                     | Fire = 2  |   |
|                                     | Reactivity = 0  |   |
| <b>· HMIS-ratings (scale 0 - 4)</b> | Health = 3  |   |
|                                     | Fire = 2  |   |
|                                     | Reactivity = 0  |   |

## 4 First aid measures

- After inhalation:** Supply fresh air. For added safety, call a doctor.  
In case of unconsciousness place patient in a stable side position for transportation.
- After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing:** If symptoms persist consult doctor.

## 5 Fire fighting measures

- Suitable extinguishing agents:** CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- Protective equipment:** No special measures required.

## 6 Accidental release measures

- Person-related safety precautions:** Not required.
- Measures for environmental protection:** Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers/ surface or ground water.
- Measures for cleaning/collecting:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose of contaminated material as waste according to item 13.

(Contd. on page 3)

— USA —

# Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 07/14/2009

Version 1

Reviewed on 07/14/2009

**Trade name: Mereco XLN-489 Base Black**

(Contd. from page 2)

Ensure adequate ventilation.

## 7 Handling and storage

- **Handling:**

- **Information for safe handling:**

Store in cool, dry place in tightly closed receptacles.  
Use only in well ventilated areas.

- **Information about protection against explosions and fires:**

No special measures required.

- **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.

## 8 Exposure controls and personal protection

- **Additional information about design of technical systems:**

No further data; see item 7.

- **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.

- **Additional information:**

The lists that were valid during the creation were used as basis.

- **Personal protective equipment:**

- **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing.  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes and skin.

- **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

- **Protection of hands:**

Protective gloves  
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

(Contd. on page 4)

— USA —

# Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 07/14/2009

Version 1

Reviewed on 07/14/2009

---

**Trade name: Mereco XLN-489 Base Black**


---

(Contd. from page 3)

- Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material is based on consideration of the penetration times, rates of diffusion and the degradation of the material.
- **Material of gloves** The selection of suitable gloves depends not only on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
  - **Penetration time of glove material** The exact penetration time has to be determined by the glove manufacturer and has to be observed.
  - **Eye protection:** Tightly sealed goggles
- 

## 9 Physical and chemical properties

· <b>General Information</b>	
· <b>Form:</b>	Liquid
· <b>Color:</b>	Black
· <b>Odor:</b>	Mild
· <b>Change in condition</b>	
· <b>Melting point/Melting range:</b>	Undetermined.
· <b>Boiling point/Boiling range:</b>	169°C
· <b>Flash point:</b>	65°C
· <b>Ignition temperature:</b>	215°C
· <b>Auto igniting:</b>	Product is not self-igniting.
· <b>Danger of explosion:</b>	Product does not present an explosion hazard.
· <b>Density at 20°C:</b>	1.6 g/cm <sup>3</sup>
· <b>Solubility in / Miscibility with</b>	
· <b>Water:</b>	Not miscible or difficult to mix.
· <b>Solvent content:</b>	
· <b>Organic solvents:</b>	0.0 %

---

## 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** Reacts with amines.

(Contd. on page 5)

— USA —

# Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 07/14/2009

Version 1

Reviewed on 07/14/2009

**Trade name: Mereco XLN-489 Base Black**

(Contd. from page 4)

- **Dangerous products of decomposition:** Irritant gases/vapors

## 11 Toxicological information

- **Acute toxicity:**

· <b>LD/LC50 values that are relevant for classification:</b>		
reactive diluent (epoxy functional)		
Oral	LD50	2050 mg/kg (rat)
Dermal	LD50	2520 mg/kg (rabbit)

- **Primary irritant effect:**
  - **on the skin:** Irritant to skin and mucous membranes.
  - **on the eye:** Irritating effect.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:** The product shows the following dangers according to internally approved calculation methods for preparations:  
Irritant

## 12 Ecological information

- **Ecotoxicological effects:**
  - **Remark:** Toxic for fish
- **General notes:** Water hazard class 2 (Self-assessment): hazardous for water  
Do not allow product to reach ground water, water course or sewage system.  
Danger to drinking water if even small quantities leak into the ground.  
Also poisonous for fish and plankton in water bodies.  
Toxic for aquatic organisms

## 13 Disposal considerations

- **Product:**
  - **Recommendation:** Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
  - **Recommendation:** Disposal must be made according to official regulations.

— USA —

(Contd. on page 6)

# Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 07/14/2009

Version 1

Reviewed on 07/14/2009

Trade name: Mereco XLN-489 Base Black

(Contd. from page 5)

## 14 Transport information

· <b>DOT regulations:</b>	
· <b>Hazard class:</b>	- Not Regulated
· <b>Proper shipping name (technical name):</b>	Not Regulated
· <b>Land transport ADR/RID (cross-border):</b>	
· <b>ADR/RID class:</b>	- Not Regulated
· <b>Special marking:</b>	Symbol (fish and tree)
· <b>Maritime transport IMDG:</b>	
· <b>IMDG Class:</b>	- Not Regulated
· <b>Marine pollutant:</b>	No
· <b>Air transport ICAO-TI and IATA-DGR:</b>	
· <b>ICAO/IATA Class:</b>	- Not Regulated
· <b>Environmental hazards:</b>	Product contains environmentally hazardous substances: Diglycidyl ether Bisphenol-A epoxy resin

## 15 Regulations

### · Sara

· <b>Section 302 (extremely hazardous substances):</b>		
None of the ingredients is listed.		
· <b>Section 313 (Specific toxic chemical listings):</b>		
None of the ingredients is listed by CAS number.		
· <b>Sections 311/312 (Specific hazard chemical listings):</b>		
reactive diluent (epoxy functional)		
· <b>Sections 311/312 Hazard Categorizations:</b>		
reactive diluent (epoxy functional)	A = Acute Health Hazard; F = Fire Hazard	3-10%
· <b>TSCA (Toxic Substances Control Act):</b>		
All ingredients are listed.		
· <b>Proposition 65</b>		
· <b>Chemicals known to cause cancer:</b>		
None of the ingredients is listed.		
· <b>Chemicals known to cause reproductive toxicity for females:</b>		
None of the ingredients is listed.		

(Contd. on page 7)

— USA —

# Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 07/14/2009

Version 1

Reviewed on 07/14/2009

---

**Trade name: Mereco XLN-489 Base Black**


---

(Contd. from page 6)

<b>· Chemicals known to cause reproductive toxicity for males:</b>		
None of the ingredients is listed.		
<b>· Chemicals known to cause developmental toxicity:</b>		
None of the ingredients is listed.		
<b>· Carcinogenicity categories</b>		
<b>· EPA (Environmental Protection Agency)</b>		
None of the ingredients is listed.		
<b>· IARC (International Agency for Research on Cancer)</b>		
None of the ingredients is listed.		
<b>· NTP (National Toxicology Program)</b>		
None of the ingredients is listed.		
<b>· TLV (Threshold Limit Value established by ACGIH)</b>		
None of the ingredients is listed.		
<b>· MAK (German Maximum Workplace Concentration)</b>		
reactive diluent (epoxy functional)	3B	3-10%
<b>· NIOSH-Ca (National Institute for Occupational Safety and Health)</b>		
None of the ingredients is listed.		
<b>· OSHA-Ca (Occupational Safety &amp; Health Administration)</b>		
None of the ingredients is listed.		

**· Product related hazard informations:**

The product has been classified and marked in accordance with directives on hazardous materials.

**· Hazard symbols:**

Xn Harmful  
N Dangerous for the environment

**· Hazard-determining components of labelling:**

Diglycidyl ether Bisphenol-A epoxy resin  
reactive diluent (epoxy functional)

**· Risk phrases:**

36/37/38 Irritating to eyes, respiratory system and skin.  
40 Limited evidence of a carcinogenic effect.  
43 May cause sensitisation by skin contact.  
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
68 Possible risk of irreversible effects.

**· Safety phrases:**

2 Keep out of the reach of children.  
28 After contact with skin, wash immediately with plenty of soap and water.  
37/39 Wear suitable gloves and eye/face protection.

(Contd. on page 8)

— USA —

# Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 07/14/2009

Version 1

Reviewed on 07/14/2009

**Trade name: Mereco XLN-489 Base Black**

(Contd. from page 7)

61 Avoid release to the environment. Refer to special instructions/safety data sheets.

**· Special labeling of certain preparations:**

Contains epoxy constituents. See information supplied by the manufacturer.

## 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.

- **Relevant R-phrases**
- 20/22 Harmful by inhalation and if swallowed.
- 36/37 Irritating to eyes and respiratory system.
- 36/37/38 Irritating to eyes, respiratory system and skin.
- 36/38 Irritating to eyes and skin.
- 40 Limited evidence of a carcinogenic effect.
- 43 May cause sensitisation by skin contact.
- 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 68 Possible risk of irreversible effects.

- **Department issuing MSDS:** Technical department
- **Contact:** Dr. John F. Plummer





**MERECO**

# Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 07/14/2009

Version 1

Reviewed on 07/14/2009

## 1 Identification of substance

- **Trade name:** **Mereco XLN-489 Activator**
- **Application of the substance / the preparation** Epoxy curing agent
- **Manufacturer/Supplier:** Mereco Division  
Metachem Resins Corporation  
1505 Main Street  
West Warwick, RI 02893  
USA Phone +1 / 401 / 822-9300
- **Information department:** Technical department.  
email = [info@mereco.com](mailto:info@mereco.com)
- **Emergency information:** Telephone: (800) 424-9300 (Chemtrec)  
Call this number in the event of an accident resulting in a spill, leak or fire. Call this number in the event of exposure to the chemicals.

## 2 Composition/Data on components

- **Chemical characterization**
- **Description:** Mixture of the substances listed below with non-hazardous additions.

· <b>Components:</b>		
	aliphatic polyamine	C, Xn; R 34-41-43-68/20/21
	Reactive diluent	Xn, Xi; R 20/22-36/37-40-43-68-52/53
111-40-0	2,2'-iminodiethylamine	C, Xn; R 21/22-34-43
80-05-7	4,4'-isopropylidenediphenol (bisphenol A)	Xn, Xi; R 37-41-43-62-52

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

## 3 Hazards identification

- **Hazard description:** C Corrosive
- **Information pertaining to particular dangers for man and environment:** The product has to be labelled due to the calculation procedure of international guidelines.  
R 34 Causes burns.  
R 40 Limited evidence of a carcinogenic effect.  
R 43 May cause sensitisation by skin contact.  
R 68 Possible risk of irreversible effects.  
R 68/20/21 Harmful: possible risk of irreversible effects through inhalation and in contact with skin.

(Contd. on page 2)

# Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 07/14/2009

Version 1

Reviewed on 07/14/2009

**Trade name: Mereco XLN-489 Activator**

- (Contd. from page 1)
- **Classification system:** The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.
  - **NFPA ratings (scale 0 - 4)**
    - Health = 3
    - Fire = 1
    - Reactivity = 0
  - **HMIS-ratings (scale 0 - 4)**
    - Health = \*3
    - Fire = 1
    - Reactivity = 0

## 4 First aid measures

- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:** Supply fresh air. For added safety, call a doctor.  
In case of unconsciousness place patient in a stable side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** Drink copious amounts of water and provide fresh air. Immediately call a doctor.

## 5 Fire fighting measures

- **Suitable extinguishing agents:** CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Protective equipment:** No special measures required.

## 6 Accidental release measures

- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**
  - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  - Use neutralizing agent.
  - Dispose of contaminated material as waste according to item 13.
  - Ensure adequate ventilation.

— USA —

(Contd. on page 3)

# Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 07/14/2009

Version 1

Reviewed on 07/14/2009

---

**Trade name: Mereco XLN-489 Activator**


---

(Contd. from page 2)

## 7 Handling and storage

- **Handling:**
    - **Information for safe handling:** Store in cool, dry place in tightly closed receptacles. Use only in well ventilated areas.
    - **Information about protection against explosions and fires:** No special measures required.
  - **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.
- 

## 8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

<b>Components with limit values that require monitoring at the workplace:</b>	
<b>111-40-0 2,2'-iminodiethylamine</b>	
REL	4 mg/m <sup>3</sup> , 1 ppm Skin
TLV	4.2 mg/m <sup>3</sup> , 1 ppm Skin

- **Additional information:** The lists that were valid during the creation were used as basis.

- **Personal protective equipment:**

- **General protective and hygienic measures:**
  - Keep away from foodstuffs, beverages and feed.
  - Immediately remove all soiled and contaminated clothing.
  - Wash hands before breaks and at the end of work.
  - Avoid contact with the eyes and skin.
- **Breathing equipment:** Not required.
- **Protection of hands:**
  - Protective gloves
  - The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
  - Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
  - Selection of the glove material is based on consideration of the penetration times, rates of diffusion and the degradation of the material.

(Contd. on page 4)

USA

# Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 07/14/2009

Version 1

Reviewed on 07/14/2009

---

**Trade name: Mereco XLN-489 Activator**


---

- (Contd. from page 3)
- **Material of gloves** The selection of suitable gloves depends not only on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
  - **Penetration time of glove material** The exact penetration time has to be determined by the glove manufacturer and has to be observed.
  - **Eye protection:** Tightly sealed goggles
- 

## 9 Physical and chemical properties

· <b>General Information</b>	
· <b>Form:</b>	Viscous
· <b>Color:</b>	Amber colored
· <b>Odor:</b>	Amine-like
· <b>Change in condition</b>	
· <b>Melting point/Melting range:</b>	Undetermined.
· <b>Boiling point/Boiling range:</b>	208°C
· <b>Flash point:</b>	> 93°C
· <b>Ignition temperature:</b>	220.0°C
· <b>Auto igniting:</b>	Product is not self-igniting.
· <b>Danger of explosion:</b>	Product does not present an explosion hazard.
· <b>Vapor pressure at 20°C:</b>	5.6 hPa
· <b>Density at 20°C:</b>	1.1 g/cm <sup>3</sup>
· <b>Solubility in / Miscibility with</b>	
· <b>Water:</b>	Not miscible or difficult to mix.
· <b>Solvent content:</b>	
· <b>Organic solvents:</b>	0.0 %

---

## 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** Reacts with acids.  
Reacts with strong acids.
- **Dangerous products of decomposition:** Nitrogen oxides

(Contd. on page 5)

— USA —

# Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 07/14/2009

Version 1

Reviewed on 07/14/2009

---

**Trade name: Mereco XLN-489 Activator**


---

(Contd. from page 4)

Irritant gases/vapors

## 11 Toxicological information

- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

111-40-0 2,2'-iminodiethylamine		
Oral	LD50	1080 mg/kg (rat)
Dermal	LD50	1090 mg/kg (rabbit)
80-05-7 4,4'-isopropylidenediphenol (bisphenol A)		
Oral	LD50	3250 mg/kg (rat)
Dermal	LD50	3000 mg/kg (rabbit)
reactive diluent (epoxy functional)		
Oral	LD50	2050 mg/kg (rat)
Dermal	LD50	2520 mg/kg (rabbit)

- **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 preparations:

Corrosive

Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

## 12 Ecological information

- **General notes:**

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

Water hazard class 2 (Self-assessment): hazardous for water  
Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

## 13 Disposal considerations

- **Product:**

- **Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

(Contd. on page 6)

— USA —

# Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 07/14/2009

Version 1

Reviewed on 07/14/2009

---

**Trade name: Mereco XLN-489 Activator**


---

(Contd. from page 5)

- **Uncleaned packagings:**

- **Recommendation:** Disposal must be made according to official regulations.
- 

## 14 Transport information

<ul style="list-style-type: none"> <li>· <b>DOT regulations:</b></li> <li>· <b>Hazard class:</b> 8</li> <li>· <b>Identification number:</b> UN2735</li> <li>· <b>Packing group:</b> II</li> <li>· <b>Proper shipping name (technical name):</b> POLYAMINES, LIQUID, CORROSIVE, N.O.S. (polyethylenepolyamine epoxy adduct)</li> <li>· <b>Label:</b> 8</li> </ul>
<ul style="list-style-type: none"> <li>· <b>Land transport ADR/RID (cross-border):</b></li> <li>· <b>ADR/RID class:</b> 8 (C7) Corrosive substances</li> <li>· <b>Danger code (Kemler):</b> 80</li> <li>· <b>UN-Number:</b> 2735</li> <li>· <b>Packaging group:</b> II</li> <li>· <b>Description of goods:</b> 2735 POLYAMINES, LIQUID, CORROSIVE, N.O.S. (polyethylenepolyamine epoxy adduct)</li> </ul>
<ul style="list-style-type: none"> <li>· <b>Maritime transport IMDG:</b></li> <li>· <b>IMDG Class:</b> 8</li> <li>· <b>UN Number:</b> 2735</li> <li>· <b>Label:</b> 8</li> <li>· <b>Packaging group:</b> II</li> <li>· <b>EMS Number:</b> F-A,S-B</li> <li>· <b>Marine pollutant:</b> No</li> <li>· <b>Proper shipping name:</b> POLYAMINES, LIQUID, CORROSIVE, N.O.S. (polyethylenepolyamine epoxy adduct)</li> </ul>
<ul style="list-style-type: none"> <li>· <b>Air transport ICAO-TI and IATA-DGR:</b></li> <li>· <b>ICAO/IATA Class:</b> 8</li> <li>· <b>UN/ID Number:</b> 2735</li> <li>· <b>Label:</b> 8</li> <li>· <b>Packaging group:</b> II</li> <li>· <b>Proper shipping name:</b> POLYAMINES, LIQUID, CORROSIVE, N.O.S. (polyethylenepolyamine epoxy adduct)</li> </ul>

## 15 Regulations

- **Sara**

- **Section 302 (extremely hazardous substances):**

None of the ingredients is listed.

(Contd. on page 7)

— USA —

# Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 07/14/2009

Version 1

Reviewed on 07/14/2009

Trade name: **Mereco XLN-489 Activator**

(Contd. from page 6)

<b>· Section 313 (Specific toxic chemical listings):</b>			
80-05-7	4,4'-isopropylidenediphenol (bisphenol A)		1-3%
<b>· Sections 31 1/312 (Specific hazard chemical listings):</b>			
All ingredients are listed.			
<b>· Sections 31 1/312 Hazard Categorizations:</b>			
	polyethylenepolyamine epoxy adduct	A = Acute; C = Chronic (health hazards)	>60%
1 1 1-40-0	2,2'-iminodiethylamine	A = Acute; C = Chronic (health hazards)	3-10%
80-05-7	4,4'-isopropylidenediphenol (bisphenol A)	Category = A (Acute health hazard)	1-3%
	reactive diluent (epoxy functional)	A = Acute Health Hazard; F = Fire Hazard	<1%
<b>· TSCA (Toxic Substances Control Act):</b>			
All ingredients are listed.			
<b>· Proposition 65</b>			
<b>· Chemicals known to cause cancer:</b>			
None of the ingredients is listed.			
<b>· Chemicals known to cause reproductive toxicity for females:</b>			
None of the ingredients is listed.			
<b>· Chemicals known to cause reproductive toxicity for males:</b>			
None of the ingredients is listed.			
<b>· Chemicals known to cause developmental toxicity:</b>			
None of the ingredients is listed.			
<b>· Carcinogenicity categories</b>			
<b>· EPA (Environmental Protection Agency)</b>			
None of the ingredients is listed.			
<b>· IARC (International Agency for Research on Cancer)</b>			
None of the ingredients is listed.			
<b>· NTP (National Toxicology Program)</b>			
None of the ingredients is listed.			
<b>· TLV (Threshold Limit Value established by ACGIH)</b>			
None of the ingredients is listed.			
<b>· MAK (German Maximum Workplace Concentration)</b>			
	reactive diluent (epoxy functional)	3B	<1%
<b>· NIOSH-Ca (National Institute for Occupational Safety and Health)</b>			
None of the ingredients is listed.			
<b>· OSHA-Ca (Occupational Safety &amp; Health Administration)</b>			
None of the ingredients is listed.			

(Contd. on page 8)

—USA—

# Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 07/14/2009

Version 1

Reviewed on 07/14/2009

**Trade name: Mereco XLN-489 Activator**

(Contd. from page 7)

- **Product related hazard informations:** The product has been classified and marked in accordance with directives on hazardous materials.
- **Hazard symbols:** C Corrosive
- **Hazard-determining components of labelling:** polyethylenepolyamine epoxy adduct  
2,2'-iminodiethylamine  
4,4'-isopropylidenediphenol (bisphenol A)  
reactive diluent (epoxy functional)
- **Risk phrases:**
  - 34 Causes burns.
  - 40 Limited evidence of a carcinogenic effect.
  - 43 May cause sensitisation by skin contact.
  - 68 Possible risk of irreversible effects.
  - 68/20/21 Harmful: possible risk of irreversible effects through inhalation and in contact with skin.
- **Safety phrases:**
  - 20 When using do not eat or drink.
  - 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
  - 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
  - 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
  - 60 This material and its container must be disposed of as hazardous waste.

## 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.

- **Relevant R-phrases**
  - 20/22 Harmful by inhalation and if swallowed.
  - 21/22 Harmful in contact with skin and if swallowed.
  - 34 Causes burns.
  - 36/37 Irritating to eyes and respiratory system.
  - 37 Irritating to respiratory system.
  - 40 Limited evidence of a carcinogenic effect.
  - 41 Risk of serious damage to eyes.
  - 43 May cause sensitisation by skin contact.
  - 52 Harmful to aquatic organisms.
  - 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
  - 62 Possible risk of impaired fertility.
  - 68 Possible risk of irreversible effects.
  - 68/20/21 Harmful: possible risk of irreversible effects through inhalation and in contact with skin.

(Contd. on page 9)

— USA —



# Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 07/14/2009

Version 1

Reviewed on 07/14/2009

---

**Trade name: Mereco XLN-489 Activator**

---

(Contd. from page 8)

- **Department issuing MSDS:** Technical department
- **Contact:** Dr. John F. Plummer

---

—USA—