



**MERECO**

# Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 07/13/2009

Version 2

Reviewed on 07/13/2009

## 1 Identification of substance

- **Trade name:** Metregrip 357 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: (401) 822-9300

## \* 2 Composition/Data on components

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

· <b>Components:</b>	
Mercaptan-terminated polymer	Xi; R 36/38
alkyl amino phenol	T, Xi; R 21/22-24-36/37/38
inorganic filler	Xi; R 36/37

- **Additional information:** For the wording of the listed risk phrases refer to section 16.  
This material is a blend of liquid curing agents and mineral or ceramic powders. The powders do not pose airborne hazards to the user of this formulated product because they are completely encapsulated in the liquid materials. If any of the specific powdered ingredients 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 the MSDS (SARA Section 313).

## \* 3 Hazards identification

- **Hazard description:** Xn Harmful
- **Information pertaining to particular dangers for man and environment:** The product has to be labelled due to the calculation procedure of international guidelines.  
R 21 Harmful in contact with skin.  
R 36/38 Irritating to eyes and skin.

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**Trade name: Metregrip 357 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:** Symptoms of poisoning may even occur after several hours; therefore medical observation is necessary for at least 48 hours after the accident.
- **After inhalation:** 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:** 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.

## \* 7 Handling and storage

- **Handling:**
  - **Information for safe handling:** Store in cool, dry place in tightly closed receptacles.

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**Trade name: Metregrip 357 Activator**

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- **Information about protection against explosions and fires:** Use only in well ventilated areas.
- **Storage:**
  - **Requirements to be met by storerooms and receptacles:** No special measures required.
  - **Information about storage in one common storage facility:** No special requirements.
  - **Further information about storage conditions:** Not required.
  - **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:** 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.
  - **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.

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**Trade name: Metregrip 357 Activator**


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- **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
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## 9 Physical and chemical properties

· <b>General Information</b>	
· <b>Form:</b>	Pasty
· <b>Color:</b>	Clear
· <b>Odor:</b>	Sulfurous
· <b>Change in condition</b>	
· <b>Melting point/Melting range:</b>	Undetermined.
· <b>Boiling point/Boiling range:</b>	Undetermined.
· <b>Flash point:</b>	149°C
· <b>Ignition temperature:</b>	370.0°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>	1.15 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>	1.3 %

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## 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
  - **Dangerous reactions**
    - Strong exothermic reaction with acids.
    - Corrosive action on metals.
    - Reacts with strong acids and oxidizing agents.
    - Reacts with peroxides and other radical forming substances.
  - **Dangerous products of decomposition:**
    - Hydrogen sulfide
    - Irritant gases/vapors
    - Sulfur oxides (SO<sub>x</sub>)
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## \* 11 Toxicological information

### · Acute toxicity:

#### · LD/LC50 values that are relevant for classification:

Mercaptan-terminated Polymer		
Oral	LD50	2600 mg/kg (rabbit)
Dermal	LD50	10200 mg/kg (rabbit)
90-72-2 2,4,6-tris(dimethylaminomethyl)phenol		
Oral	LD50	1670 mg/kg (rat)
Dermal	LD50	1400 mg/kg (rabbit)
56-81-5 glycerol		
Oral	LD50	12600 mg/kg (rat)

### · Primary irritant effect:

#### · on the skin:

Irritant to skin and mucous membranes.

#### · on the eye:

Irritating effect.

### · Sensitization:

No sensitizing effects known.

### · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful

Irritant

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## 12 Ecological information

### · General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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## 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.

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## \* 14 Transport information

<ul style="list-style-type: none"> <li>· <b>DOT regulations:</b></li> <li>· <b>Hazard class:</b> - Not Regulated</li> <li>· <b>Proper shipping name (technical name):</b> Not Regulated</li> </ul>	
<ul style="list-style-type: none"> <li>· <b>Land transport ADR/RID (cross-border):</b></li> <li>· <b>ADR/RID class:</b> - Not Regulated</li> </ul>	
<ul style="list-style-type: none"> <li>· <b>Maritime transport IMDG:</b></li> <li>· <b>IMDG Class:</b> - Not Regulated</li> <li>· <b>Marine pollutant:</b> No</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> 9 Regulated for air shipment only</li> <li>· <b>UN/ID Number:</b> 3334</li> <li>· <b>Label:</b> 9</li> <li>· <b>Packaging group:</b> -</li> <li>· <b>Proper shipping name:</b> AVIATION REGULATED LIQUID, N.O.S. (Mercaptan-terminated Polymer)</li> </ul>	

## \* 15 Regulations

- **Sara**

<ul style="list-style-type: none"> <li>· <b>Section 302 (extremely hazardous substances):</b></li> </ul>			
None of the ingredients is listed.			
<ul style="list-style-type: none"> <li>· <b>Section 313 (Specific toxic chemical listings):</b></li> </ul>			
None of the ingredients is listed by CAS number.			
<ul style="list-style-type: none"> <li>· <b>Sections 311/312 (Specific hazard chemical listings):</b></li> </ul>			
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol		
<ul style="list-style-type: none"> <li>· <b>Sections 311/312 Hazard Categorizations:</b></li> </ul>			
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	A = Acute Health Hazard	3-10%
<ul style="list-style-type: none"> <li>· <b>TSCA (Toxic Substances Control Act):</b></li> </ul>			
All ingredients are listed.			
<ul style="list-style-type: none"> <li>· <b>Proposition 65</b></li> </ul>			
<ul style="list-style-type: none"> <li>· <b>Chemicals known to cause cancer:</b></li> </ul>			
None of the ingredients is listed.			
<ul style="list-style-type: none"> <li>· <b>Chemicals known to cause reproductive toxicity for females:</b></li> </ul>			
None of the ingredients is listed.			

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<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>	
None of the ingredients is listed.	
<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
- Hazard-determining components of labelling:** 2,4,6-tris(dimethylaminomethyl)phenol
- Risk phrases:** 21 Harmful in contact with skin.  
36/38 Irritating to eyes and skin.
- Safety phrases:** 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
37 Wear suitable gloves.  
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.

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- **Relevant R-phrases**
  - 21/22 Harmful in contact with skin and if swallowed.
  - 24 Toxic in contact with skin.
  - 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.
- **Department issuing MSDS:** Technical department
- **Contact:** Dr. John F. Plummer
- **\* Data compared to the previous version altered.**

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# Material Safety Data Sheet

acc. to ISO/DIS 11014

**MERECO**

Printing date 01/11/2005

Version 1

Reviewed on 01/11/2005

## 1 Identification of substance

### · Product details

· Trade name: **Metregrip 357 Base**

· 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.

· Emergency information: Telephone: (401) 822-9300

## 2 Composition/Data on components

### · Chemical characterization

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

### · Components:

Diglycidyl Ether Bisphenol-A epoxy resin	Xi, N; R 36/38-43-51/53
inorganic filler	Xi; R 36/37

### · 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 or ceramic powders. These powders do not pose airborne hazards to the user of this formulated product because they are completely encapsulated in the resin mass. If one of the specific powdered ingredients is hazardous in accordance with Section 313 of the Emergency Planning and Community Right-to-know Act of 1986 it is identified in section 15 of this MSDS (SARA Section 313).

## 3 Hazards identification

### · Hazard description:

Xi Irritant  
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 36/38 Irritating to eyes and skin.  
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.  
Contains epoxy constituents. See information supplied by the manufacturer.

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# Material Safety Data Sheet

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## Trade name: Metregrip 357 Base

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(Contd. of 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 = 2
    - Fire = 1
    - Reactivity = 0
  - **HMIS-ratings (scale 0 - 4)**
    - Health = 2
    - Fire = 1
    - 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:** Mouth respiratory protective device.
  - **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).  
Ensure adequate ventilation.
- 

### 7 Handling and storage

- **Handling:**
  - **Information for safe handling:** Store in cool, dry place in tightly closed receptacles.  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.

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**Trade name: Metregrip 357 Base**


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- **Information about protection against explosions and fires:** Use only in well ventilated areas.
  - **Storage:**
    - **Requirements to be met by storerooms and receptacles:** No special measures required.
    - **Information about storage in one common storage facility:** No special requirements.
    - **Further information about storage conditions:** 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.
    - 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 the suitable gloves does not only depend 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.

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**Trade name: Metregrip 357 Base**


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**· Eye protection:** Tightly sealed goggles
 

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## 9 Physical and chemical properties

<b>· General Information</b>	
<b>· Form:</b>	Pasty
<b>· Color:</b>	Blue
<b>· Odor:</b>	Mild
<b>· Change in condition</b>	
<b>· Melting point/Melting range:</b>	Undetermined.
<b>· Boiling point/Boiling range:</b>	201°C
<b>· Flash point:</b>	254°C
<b>· Ignition temperature:</b>	370.0°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>	1.20 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>	0.5 %

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## 10 Stability and reactivity

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

## 11 Toxicological information

- Acute toxicity:**
  - 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
- 

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## 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.

## 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>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

## 15 Regulations

- **Sara**

· <b>Section 355 (extremely hazardous substances):</b>
None of the ingredients is listed.
· <b>Section 313 (Specific toxic chemical listings):</b>
None of the ingredients is listed.

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<b>· Sections 311/312 (Specific hazard chemical listings):</b>	
None of the ingredients is listed.	
<b>· Sections 311/312 Hazard Categorizations:</b>	
None of the ingredients is listed.	
<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:</b>	
None of the ingredients is listed.	
<b>· Carcinogenity 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>	
None of the ingredients is listed.	
<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:**

Xi Irritant  
N Dangerous for the environment

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

Diglycidyl ether Bisphenol-A epoxy resin

**· Risk phrases:**

36/38 Irritating to eyes and skin.  
43 May cause sensitisation by skin contact.  
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**· Safety phrases:**

23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).

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**Trade name: Metregrip 357 Base**

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- 24/25 Avoid contact with skin and eyes.
- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 28 After contact with skin, wash immediately with plenty of ... (to be specified by the manufacturer).
- 37/39 Wear suitable gloves and eye/face protection.
- 57 Use appropriate container to avoid environmental contamination.
- 60 This material and its container must be disposed of as hazardous waste.
- 64 If swallowed, rinse mouth with water (only if the person is conscious).

**· Special labeling of certain preparations:**

Contains epoxy constituents. See information supplied by the manufacturer.

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## 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**

- 36/37 Irritating to eyes and respiratory system.
- 36/38 Irritating to eyes and skin.
- 43 May cause sensitisation by skin contact.
- 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**· Department issuing MSDS:**

Technical department.

**· Contact:**

Dr. John F. Plummer

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