



MERECO

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 02/26/2008

Version 1

Reviewed on 02/26/2008

1 Identification of substance

- **Trade name:** **Metaduct 1206**
- **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
- **Emergency information:** Telephone: (401) 822-9300

2 Composition/Data on components

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

· Components:		
	Diglycidyl Ether Bisphenol-A epoxy resin	Xi, N; R 36/38-43-51/53
	amide	Xi; R 36/37/38
330-54-1	diuron (ISO)	Xn, N; R 22-40-48/22-50/53

- **Additional information:** This material is a blend of epoxy resins, curing agents, metallic filler particles and possible other 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 liquid mass. If any of the 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).

For the wording of the listed risk phrases refer to section 16.

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.

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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.

- **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:**

CO₂, 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.

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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.
 Use only in well ventilated areas.
 This material is a blend of liquid resins and latent curing agents.
 The curing reaction is activated by heat. The material must be stored below 25°C (77°F) in order to maintain its specified shelf life.
 Containers must be closed when not in use and must be protected from heat.

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

No special measures required.

- **Storage:**

- **Requirements to be met by storerooms and receptacles:**

Material must be stored below 25°C (77°F) to maintain the specified shelf life.

- **Information about storage in one common storage facility:**

Not required.

- **Further information about storage conditions:**

Keep receptacle tightly sealed.
 This material contains a latent curing agent that is activated by heat. This material must be kept cool to prevent the reaction between the resin and the latent curing agent. The rated shelf life will be shortened if the storage temperature exceeds 25°C.

- **Recommended storage temperature:**

0°C - 25°C (32°F - 77°F)

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:**

330-54-1 diuron (ISO)	
REL	10 mg/m ³
TLV	10 mg/m ³

- **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.

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- 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 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

· General Information	
· Form:	Pasty
· Color:	Silver-colored
· Odor:	Mild
· Change in condition	
· Melting point/Melting range:	Undetermined.
· Boiling point/Boiling range:	201°C
· Flash point:	254°C
· Auto igniting:	Product is not self-igniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Density at 20°C:	2.9 g/cm ³
· Solubility in / Miscibility with	
· Water:	Not miscible or difficult to mix.

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- | | |
|----------------------------|-------|
| · Solvent content: | |
| · Organic solvents: | 0.0 % |

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** Reaction between resin and latent curing agent occurs if temperature exceeds 30°C (86°F). Reaction rate is dependent on actual temperature. Small volumes of material do not generate excessive exotherm heat.
- **Dangerous products of decomposition:** Irritant gases/vapors
Ammonia

11 Toxicological information

- **Acute toxicity:**

· LD/LC50 values that are relevant for classification:

330-54-1 diuron (ISO)

Oral	LD50	2900 mg/kg (rat)
Dermal	LD50	> 2000 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:** Also poisonous for fish and plankton in water bodies.
Toxic for aquatic organisms
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.

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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.

14 Transport information

· DOT regulations:	
· Hazard class:	- Not Regulated
· Proper shipping name (technical name):	Not Regulated
· Land transport ADR/RID (cross-border):	
· ADR/RID class:	- Not Regulated
· Maritime transport IMDG:	
· IMDG Class:	- Not Regulated
· Marine pollutant:	No
· Air transport ICAO-TI and IATA-DGR:	
· ICAO/IATA Class:	- Not Regulated

15 Regulations

- **Sara**

· Section 355 (extremely hazardous substances):	
None of the ingredients is listed.	
· Section 313 (Specific toxic chemical listings):	
7440-22-4 silver	>60%
330-54-1 diuron (ISO)	<1%
· Sections 311/312 (Specific hazard chemical listings):	
None of the ingredients is listed.	
· Sections 311/312 Hazard Categorizations:	
None of the ingredients is listed.	
· TSCA (Toxic Substances Control Act):	
All ingredients are listed.	

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· **Proposition 65**

· **Chemicals known to cause cancer:**

330-54-1	diuron (ISO)	<1%
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· **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)**

7440-22-4	silver	D
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· **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients is listed.

· **MAK (German Maximum Workplace Concentration)**

None of the ingredients is listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

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.
24 Avoid contact with skin.

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- 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 soap and water.
- 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.

· 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

- 22 Harmful if swallowed.
- 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.
- 48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.
- 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 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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