



**MERECO**

# Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 11/06/2007

Version 2

Reviewed on 11/06/2007

## 1 Identification of substance

- **Trade name:** Metaterge 1492 Liquid
- **Application of the substance / the preparation:** Industrial cleaner
- **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.

· <b>Components:</b>		
	Solvent	Xi; R 36/38
111-42-2	2,2'-iminodiethanol	Xn, Xi; R 22-38-41-48/22

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

## 3 Hazards identification

- **Hazard description:** Xi Irritant
- **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.  
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 = 1  
Fire = 2  
Reactivity = 0

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- **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>97-99-4 tetrahydro-2-furymethanol</b>	
WEEL	2 ppm
<b>111-42-2 2,2'-iminodiethanol</b>	
REL	15 mg/m <sup>3</sup> , 3 ppm
TLV	2 mg/m <sup>3</sup> , 0.46 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:** 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.

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· **Eye protection:** Tightly sealed goggles

**\* 9 Physical and chemical properties**

· <b>General Information</b>	
· <b>Form:</b>	Liquid
· <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>	> 149°C
· <b>Flash point:</b>	93°C
· <b>Ignition temperature:</b>	280°C
· <b>Auto igniting:</b>	Product is not self-igniting.
· <b>Danger of explosion:</b>	Product does not present an explosion hazard.
· <b>Explosion limits:</b>	
· <b>Lower:</b>	1.5 Vol %
· <b>Upper:</b>	9.7 Vol %
· <b>Vapor pressure at 20°C:</b>	0.3 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>	82.5 %

**10 Stability and reactivity**

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions:** Reacts with acids, alkalis and oxidizing agents.
- **Dangerous products of decomposition:** Irritant gases/vapors

**11 Toxicological information**

- **Acute toxicity:**

· <b>LD/LC50 values that are relevant for classification:</b>		
<b>97-99-4 tetrahydro-2-furylmethanol</b>		
Oral	LD50	1600 mg/kg (rat)

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- **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:  
Irritant
- 

## 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

· <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

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## \* 15 Regulations

### · Sara

#### · Section 355 (extremely hazardous substances):

None of the ingredients is listed.

#### · Section 313 (Specific toxic chemical listings):

111-42-2	2,2'-iminodiethanol	1-3%
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#### · Sections 311/312 (Specific hazard chemical listings):

111-42-2	2,2'-iminodiethanol
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#### · Sections 311/312 Hazard Categorizations:

111-42-2	2,2'-iminodiethanol	A = Acute health hazard	1-3%
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#### · TSCA (Toxic Substances Control Act):

All ingredients are listed.

### · Proposition 65

#### · 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.

#### · IARC (International Agency for Research on Cancer)

111-42-2	2,2'-iminodiethanol	3	1-3%
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#### · 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.

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- **Product related hazard informations:** The product has been classified and marked in accordance with directives on hazardous materials.
- **Hazard symbols:** Xi Irritant
- **Risk phrases:** 36/38 Irritating to eyes and skin.
- **Safety phrases:**
  - 23 Do not breathe gas/fumes/vapour/spray.
  - 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
  - 37/39 Wear suitable gloves and eye/face protection.
  - 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.
  - 36/38 Irritating to eyes and skin.
  - 38 Irritating to skin.
  - 41 Risk of serious damage to eyes.
  - 48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.
- **Department issuing MSDS:** Technical department
- **Contact:** Dr. John F. Plummer
- **\* Data compared to the previous version altered.**