

# Material Safety Data Sheet

## According to 91/155 EEC



Printing date 11.04.2006

Reviewed on 11.04.2006

### 1 Identification of substance:

- **Product details:**
- **Trade name:** OTTOCOLL Rapid
- **Application of the substance / the preparation** Adhesives
- **Manufacturer/Supplier:**  
Hermann Otto GmbH  
Postfach 20  
D-83411 Fridolfing  
Tel.: 0049/(0)8684/908-0  
Fax.: 0049/(0)8684/908-539
- **Further information obtainable from:** Tel.: 0049- (0)8684- 908- 641 ( -460 )
- **Information in case of emergency:** Tel.: 0049- (0)89- 192 40 (emergency telephone no.)

### 2 Composition/Data on components:

- **Chemical characterization**
  - **Description:**  
Prepolymer, based on diphenylmethandiisocyanat with monomeric and polymeric contents
  - **Dangerous components:**
- |                   |   |        |
|-------------------|---|--------|
| CAS: 26447-40-5   | methylenediphenyl diisocyanate  | < 50%  |
| EINECS: 247-714-0 |  Xn; R 20-36/37/38-42/43 |        |
| CAS: 64742-48-9   | Naphtha (petroleum), hydrotreated heavy   | < 2.5% |
| EINECS: 265-150-3 |  Xn; R 65               |        |
- **Additional information** For the wording of the listed risk phrases refer to section 16.

### 3 Hazard identification

- **Hazard description:**



Xn Harmful

- **Information concerning to particular hazards to man and environment**  
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.  
R 20 Harmful by inhalation.  
R 36/37/38 Irritating to eyes, respiratory system and skin.  
R 42/43 May cause sensitisation by inhalation and skin contact.  
Contains isocyanates. See information supplied by the manufacturer
- **Classification system**  
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

### 4 First aid measures

- **General information**  
Immediately remove any clothing soiled by the product.  
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- **After inhalation** Supply fresh air; consult doctor in case of complaints.
- **After skin contact**  
Immediately wash with water and soap and rinse thoroughly.  
If skin irritation continues, consult a doctor.
- **After eye contact**  
Rinse opened eye for several minutes under running water. Then consult a doctor.

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- **After swallowing**  
Do not induce vomiting; call for medical help immediately. Show container or label.

### 5 Fire fighting measures

- **Suitable extinguishing agents**  
CO<sub>2</sub>, 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 caused by the substance, its products of combustion or resulting gases:**  
Formation of toxic gases is possible during heating or in case of fire.
- **Protective equipment:**  
Mount respiratory protective device.  
Do not inhale explosion gases or combustion gases.

### 6 Accidental release measures

- **Person-related safety precautions:**  
Ensure adequate ventilation  
see item 8: Personal protective equipment
- **Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**  
Dispose contaminated material as waste according to item 13.  
Pick up mechanically.

### 7 Handling and storage

- **Handling**
- **Information for safe handling:**  
Ensure good ventilation/exhaustion at the workplace.  
see item 8: Personal protective equipment
- **Information about fire - and explosion protection:** Keep ignition sources away - Do not smoke.
- **Storage**
- **Requirements to be met by storerooms and receptacles:** Prevent any seepage into the ground.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:**  
Store in cool, dry conditions in well sealed receptacles.  
Protect from heat and direct sunlight.  
Store under lock and key and out of the reach of children.

### 8 Exposure controls and personal protection gear

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Ingredients with limit values that require monitoring at the workplace:**  
**9016-87-9 diphenylmethanediisocyanate, isomeres and homologues**  
MEL Short-term value: 0.07 mg/m<sup>3</sup>  
Long-term value: 0.02 mg/m<sup>3</sup>  
Sen; as -NCO
- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment**
- **General protective and hygienic measures**  
The usual precautionary measures are to be adhered to when handling chemicals.  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes and skin.  
Pregnant women should strictly avoid inhalation or skin contact.

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- **Respiratory protection:**  
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.  
Not necessary if room is well-ventilated.
- **Protection of hands:** Protective gloves.
- **Material of gloves:** Butyl rubber, BR
- **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:** Safety glasses
- **Body protection:** Protective work clothing.

### 9 Physical and chemical properties:

#### · General Information

**Form:** pasty  
**Colour:** Beige  
**Odour:** Characteristic

#### · Change in condition

**Melting point/Melting range:** undetermined  
**Boiling point/Boiling range:** undetermined

- **Flash point:** Not applicable
- **Self-igniting:** Product is not selfigniting.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Density at 20°C:** 1.450 g/cm<sup>3</sup>
- **Solubility in / Miscibility with Water:** reaction with water

### 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.  
Avoid strong heating.
- **Materials to be avoided:**  
If isocyanate gets in contact with humidity, carbon dioxide is released. The carbon dioxide causes an overpressure in closed containers.
- **Dangerous reactions**  
Reacts with alcohols  
Reacts with amines  
Exothermic reaction
- **Dangerous decomposition products:** see item 5.3

### 11 Toxicological information

- **Acute toxicity:**
- **LD/LC50 values relevant for classification:**  

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**26447-40-5 methylenediphenyl diisocyanate**  
Oral LD50 > 2000 mg/kg (rat)
- **Primary irritant effect:**
- **on the skin:** Irritating effects to skin and mucous membranes possible
- **on the eye:** Irritating effect possible
- **Sensitization:**  
Sensitization possible through inhalation.

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*Sensitization possible through skin contact.*

*Sensitive people may react strongly to minimal concentrations.*

*We advise asthmatics and people who tend to diseases of the respiratory tracts against the contact with this product.*

· **Other information (about experimental toxicology):**

*After curing the material is odourless and completely harmless.*

· **Additional toxicological information:**

*Product has not been tested. Assessment is based on the ingredients. Observe the information in point 15.*

### 12 Ecological information:

· **General notes:**

*Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.*

*Do not allow product to reach ground water, water course or sewage system.*

### 13 Disposal considerations

· **Product:**

· **Recommendation**

*Observe local by-laws.*

*Already cured material can be disposed of with the domestic or commercial waste.*

*Unconsumed material (fluid, paste-like) is to dispose of as hazardous waste.*

· **Uncleaned packaging:**

· **Recommendation:**

*Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.*

*Packagings that may not be cleansed are to be disposed of in the same manner as the product.*

### 14 Transport information

· **Land transport ADR/RID (cross-border)**

· **ADR/RID class:** -

· **Maritime transport IMDG:**

· **IMDG Class:** -

· **Marine pollutant:** No

· **Air transport ICAO-TI and IATA-DGR:**

· **ICAO/IATA Class:** -

· **Transport/Additional information:** Not dangerous according to the above specifications.

### 15 Regulations

· **Labelling according to EU guidelines:**

*The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials*

· **Code letter and hazard designation of product:**

*Xn Harmful*

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

*methylenediphenyl diisocyanate*

· **Risk phrases:**

*20 Harmful by inhalation.*

*36/37/38 Irritating to eyes, respiratory system and skin.*

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42/43 May cause sensitisation by inhalation and skin contact.

· **Safety phrases:**

2 Keep out of the reach of children.

23 Do not breathe fumes/aerosol.

36/37 Wear suitable protective clothing and gloves.

46 If swallowed, seek medical advice immediately and show this container or label.

· **Special labelling of certain preparations:**

Contains isocyanates. See information supplied by the manufacturer

· **National regulations**

· **Information about limitation of use:**

Employment restrictions concerning juveniles must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

· **Waterhazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

**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 Harmful by inhalation.

36/37/38 Irritating to eyes, respiratory system and skin.

42/43 May cause sensitisation by inhalation and skin contact.

65 Harmful: may cause lung damage if swallowed.

· **Department issuing MSDS:** Tel.: 0049- (0)8684- 908- 641

· **Contact:** Tel.: 0049- (0)8684- 908- 641 ( -460 )

· \* **Data compared to the previous version altered.**

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