

## MR 1165 SLOW

### Isocyanate

#### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** MR 1165 Slow Isocyanate  
NB2006139540-3 ISO  
**Material Type:** Isocyanate  
**Manufacturer/Supplier:** American Recycling Center, Inc.  
655 Wabassee Drive  
Owosso, MI 48867

**24-Hour Emergency Phone Number:** 989-636-4400

**Customer Information Center:** 989-725-5100

#### 2. COMPOSITION/DATA ON COMPONENTS

**Chemical characterization:**

**CAS No. Description**

5873-54-1 o-(p-isocyanatobenzyl)phenyl isocyanate 7-13%

101-68-8 4,4'-methylenediphenyl diisocyanate 7-13%

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

**Dangerous components:**

CAS: 53862-89-8 polymethylenepolyphenyl polyisocyanate, polypropyleneglycol, copolymer 60-100%

CAS: 5873-54-1 o-(p-isocyanatobenzyl)phenyl isocyanate 7 – 13%

EINECS: 227-534-9

CAS: 101-68-8 4,4'-methylenediphenyl diisocyanate 7 – 13%

EINECS: 202-966-0

CAS: 117-81-7 bis(2-ethylhexyl) phthalate 1 - 5%

EINECS: 204-211-0

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

#### 3. HAZARDS IDENTIFICATION

**Hazard description:** T Toxic

**Information pertaining to particular dangers for man and environment:** The product has to be labeled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version. May impair fertility. May cause harm to the unborn child. Irritation to eyes, respiratory system and skin. May cause sensitization by inhalation and skin contact. Contains isocyanates. See information supplied by the manufacturer.



## American Recycling Center, Inc

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**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 = 1**

**HMIS-ratings (scale 0 – 4)**

**Health = 2**

**Fire = 1**

**Reactivity = 1**

#### **4. FIRST-AID MEASURES**

**After inhalation:** Supply fresh air and to be sure call for a doctor. In case of unconsciousness place patient stably in side position for transportation.

**After skin contact:** Immediately wash with water and soap and rinse thoroughly. Immediately rinse with water.

**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:** Use fire fighting measures that suit the environment.

**Protective equipment:** No special measures required.

#### **6. ACCIDENTAL RELEASE MEASURES**

**Person-related safety precautions:** Not required.

**Measures for environmental protection:** Do not allow product to reach sewage system or any water course. 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 contaminated material as waste according to item 13. Ensure adequate ventilation.

#### **7. HANDLING AND STORAGE**

**Handling:**

**Information for safe handling:** Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Prevent formation of aerosols.

**Information about protection against explosions and fires:** Keep respiratory protective device available.

**Storage:**

**Requirements to be met by storerooms and receptacles:** No special requirements.

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**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:**

### 101-68-8 4, 4' –methylenediphenyl diisocyanate

PEL Short-term value: C 0.2 mg/m<sup>3</sup>, C 0.2 ppm

REL Short-term value: C 0.2\*mg/m<sup>3</sup>, C 0.02\* ppm

Long-term value: 0.05 mg/m<sup>3</sup>, 0.005 ppm

\*10-min

TLV 0.051 mg/m<sup>3</sup>, 0.005 ppm

### 117-81-7 bis(2-ethylhexyl) phthalate

PEL 5 mg/m<sup>3</sup>

REL Short-term value: 10mg/m<sup>3</sup>

Long-term value: 5 mg/m<sup>3</sup>

TLV 5 mg/m<sup>3</sup>

**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. Store protective clothing separately. 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 on consideration of the penetration times, rates of diffusion and the degradation.

**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 break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:** Tightly sealed goggles.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### General Information

**Form:** Fluid

**Color:** According to product specification

**Odor:** Characteristic

**Change in condition :**

**Melting point/ Melting range:** Undetermined.

**Boiling point/Boiling range:** 208°C (406°F)

**Flash point:** 212°C (414° F)

**Ignition temperature** 520°C (968°F)

**Auto Igniting:** Product is not self igniting.

**Danger of explosion:** Product does not present an explosion hazard.

**Explosion Limits:** Lower: 0.4 Vol%

**Vapor pressure at 20°C (68°F):** 0 hPa

**Density:** Not determined.

**Solubility in/Miscibility with**

**Water:** Not miscible or difficult to mix. **Organic Solvents:** 0.0%

**Solids content:** 11.1%

## 10. STABILITY AND REACTIVITY

**Thermal decomposition/conditions to be avoided:** No decomposition if used according to specifications.

**Dangerous reactions:** No dangerous reactions known.

**Dangerous products of decomposition:** No dangerous decomposition products known.

## 11. TOXICOLOGICAL INFORMATION

**Acute toxicity:**

**LD/LC50 values that are relevant for classification: 101-68-8 4, 4'-methylenediphenyl diisocyanate** Oral LD50>10000 mg/kg (mouse) Dermal LD50>2000 mg/kg (Rabbit)

**117-81-7 bis(2-ethylhexyl) phthalate** Oral LD50 30600 mg/kg (Rat) Dermal LD50 25000 mg/kg/(Rabbit)

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

## 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:** -

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

**ADR/RID class:** -

**Maritime transport IMDG:**

**IMDG Class:-**

**Marine pollutant:** No

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

**ICA/IATA Class:** No

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## 15. Regulations

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**Section 355 (extremely hazardous substances):** None of the ingredient is listed.

**Section 313 (Specific toxic chemical listings):** 101-68-8 4,4'-methylenediphenyl diisocyanate 11.132% 117-81-7 bis(2-ethylhexyl) phthalate 3.0%

**SARA Section 311/312 (Hazardous Categorization):** 101-68-8 4,4'-methylenediphenyl diisocyanate Immediate Health, Delayed Health 11.132%

**TSCA (Toxic Substances Control Act):** All components are TSCA listed or are not required to be listed unless specifically stated otherwise.

**Proposition 65** None of the ingredients is listed.

**EPA (Environmental Protection Agency)** 101-68-8 4,4'-methylenediphenyl diisocyanate BD;D 117-81-7 bis(2-ethylhexyl) phthalate B2

**OSHA-National** 101-68-8 4,4'-methylenediphenyl diisocyanate 3 117-81-7 bis(2-ethylhexyl) phthalate 3

98-88-4 benzoyl chloride 2A

**NTP (National Toxicology Program)** 117-81-7 bis(2-ethylhexyl) phthalate R

**TLV (Threshold Limit Value established by ACGIH)** 117-81-7 bis(2-ethylhexyl) phthalate A3 98-88-4 benzoyl chloride A4

**Product related hazard informations:** The product has been classified and marked in accordance with directives on hazardous materials.

**Hazard symbols:** T. Toxic

**Hazard-determining components of labeling:** polymethylenepolyphenyl polyisocyanate, polypropyleneglycol, copolymer. 4,4'-methylenediphenyl diisocyanate, O-(p-isocyanatobenzyl)phenyl isocyanate, bis(2-ethylhexyl) phthalate.

**Risk phrases:** May impair fertility. May cause harm to the unborn child. Irritating to eyes, respiratory system and skin. May cause sensitization by inhalation and skin contact.

**Safety phrases:** Avoid exposure-obtain special instructions before use. Keep locked up and out of the reach of children. Keep container in a well-ventilated place. Keep away from food, drink and animal feeding stuffs. When using do not eat or drink. Do not breathe gas/fumes/vapor/spray. Use in well ventilated area or wear respiratory protection. Avoid contact with skin and eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with plenty of water. Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point. Wear suitable gloves and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately. Not recommended for interior use on large surface areas. This material and its container must be disposed of as hazardous waste. In case of accident by inhalation: remove casualty to fresh air and keep at rest.

**Special labeling of certain preparations:** Contains isocyanates. See information supplied by the manufacturer.

**National regulations:** None of the ingredients is listed.

**Technical instructions (air):** Class I, Share 10-30%, Class NK, Share 1-5%

**Water hazard 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.

American Recycling Center, Inc. urges each customer or recipient of this SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date of the SDS. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's duty to ensure that its activities comply with all applicable Federal, state, provincial and local laws. The information presented here pertains only to the product shipped. Since conditions for use of the product are not under the control of American Recycling Center, Inc. it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product.

**Department issuing MSDS:** EH&S Delivery

**Contact:** Ms. Linda Brown (800-735-3129)

ARC MSDS MR1165 SUMMER

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