

## Safety Data Sheet

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations


Printing date: October 22, 2018

Revision: October 22, 2018

### 1 Identification

- **Product identifier**
- **Trade name:** **Edge-Pro 90 (Part A)**
- **Product code:** No other identifiers
- **Recommended use and restriction on use**
- **Recommended use:** Polyurea joint filler
- **Restrictions on use:** For professional use only.
- **Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**  
 METZGER/McGUIRE  
 Mailing Address:  
 PO Box 2217  
 Concord, NH 03302  
 Shipping Address:  
 807 Route 3-A  
 Bow, NH 03304  
 Phone: 603-224-6122  
 Toll Free: 800-223-6680  
 Email: info@metzgermcguire.com
- **Emergency telephone number:**  
 ChemTel Inc.  
 (800)255-3924 (North America)  
 +1 (813)248-0585 (International)

### 2 Hazard(s) identification

- **Classification of the substance or mixture**  
 STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.
- **Label elements**
- **GHS label elements**  
 The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms:**  
  
 GHS08
- **Signal word:** Warning
- **Hazard statements:**  
 H373 May cause damage to organs through prolonged or repeated exposure.
- **Precautionary statements:**  
 P260 Do not breathe the mist/vapors/spray.  
 P314 Get medical advice/attention if you feel unwell.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Other hazards** There are no other hazards not otherwise classified that have been identified.

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**Trade name: Edge-Pro 90 (Part A)**

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### 3 Composition/information on ingredients

- **Chemical characterization:** Mixtures

#### · Components:

68479-98-1	diethylmethylbenzenediamine ⚠ STOT RE 2, H373 ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Eye Irrit. 2A, H319	<5%
5285-60-9	4,4'-methylenebis[N-sec-butylaniline] ⚠ Acute Tox. 4, H302	<5%

#### · **Additional information:**

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret.  
 For the wording of the listed Hazard Statements, refer to section 16.

### 4 First-aid measures

- **Description of first aid measures**

- **After inhalation:**  
 Respiration of particulates is unlikely during normal usage.  
 Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**  
 Immediately wash with water and soap and rinse thoroughly.  
 If skin irritation or rash occurs: Get medical advice/attention.
- **After eye contact:**  
 Remove contact lenses if worn.  
 Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**  
 Rinse out mouth and then drink plenty of water.  
 Do not induce vomiting; immediately call for medical help.
- **Most important symptoms and effects, both acute and delayed:**  
 Gastric or intestinal disorders when ingested.  
 Nausea in case of ingestion.  
 Slight irritant effect on skin and mucous membranes.  
 Slight irritant effect on eyes.
- **Danger:** May cause damage to organs through prolonged or repeated exposure.
- **Indication of any immediate medical attention and special treatment needed:** Treat symptomatically.

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
 CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray.
- **For safety reasons unsuitable extinguishing agents:** Water stream.
- **Special hazards arising from the substance or mixture**  
 Formation of toxic gases is possible during heating or in case of fire.
- **Advice for firefighters**
- **Protective equipment:**  
 Wear self-contained respiratory protective device.

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Wear fully protective suit.

**Additional information:**

 Use large quantities of foam as it is partially destroyed by the product.  
 Cool endangered product with water spray.

### 6 Accidental release measures

**Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment as required.

 For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.  
 Ensure adequate ventilation.

**Environmental precautions**

Do not allow to enter sewers/ surface or ground water.

Inform respective authorities in case of seepage into water course or sewage system.

**Methods and material for containment and cleaning up**

 Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
 Send for recovery or disposal in suitable receptacles.

**Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### 7 Handling and storage

**Handling**
**Precautions for safe handling:**

 Use only in well ventilated areas.  
 Avoid splashes or spray in enclosed areas.  
 Keep out of reach of children.  
 Avoid contact with the eyes and skin.

**Conditions for safe storage, including any incompatibilities**
**Requirements to be met by storerooms and receptacles:**

Store in cool, dry conditions in well sealed receptacles.

Avoid storage near extreme heat, ignition sources or open flame.

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

 Store away from foodstuffs.  
 Store away from oxidizing agents.

**Specific end use(s)** No relevant information available.

### 8 Exposure controls/personal protection

**Control parameters**
**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.

**Exposure controls**

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**General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

**Engineering controls:** No relevant information available.

**Breathing equipment:** Not required under normal conditions of use.

**Protection of hands:**


Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

**Eye protection:**


Safety glasses

Follow relevant national guidelines concerning the use of protective eyewear.

**Body protection:** Protective work clothing

**Limitation and supervision of exposure into the environment**

No relevant information available.

**Risk management measures** No relevant information available.

### 9 Physical and chemical properties

**Information on basic physical and chemical properties**
**Appearance:**
**Form:** Liquid

**Color:** Gray

**Odor:** Amine-like

**Odor threshold:** Not determined.

**pH-value:** Not determined.

**Melting point/Melting range:** Not determined.

**Boiling point/Boiling range:** >200 °C (>392 °F)

**Flash point:** >150 °C (>302 °F)

**Flammability (solid, gaseous):** Not applicable.

**Auto-ignition temperature:** Not determined.

**Decomposition temperature:** Not determined.

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

**Explosion limits**
**Lower:** Not determined.

**Upper:** Not determined.

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- **Oxidizing properties:** Non-oxidizing.
- **Vapor pressure:** Not determined.
- **Density:**
  - Relative density: 1.03 g/cm<sup>3</sup> (8.6 lbs/gal)
  - Vapor density: Not determined.
  - Evaporation rate: Not determined.
- **Solubility in / Miscibility with Water:** Slightly soluble.
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity**
  - Dynamic: Not determined.
  - Kinematic: Not determined.
- **Other information** No relevant information available.

### 10 Stability and reactivity

- **Reactivity:** No relevant information available.
- **Chemical stability:** Stable under normal temperatures and pressures.
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used and stored according to specifications.
- **Possibility of hazardous reactions**  
Toxic fumes may be released if heated above the decomposition point.  
Reacts with catalysts, oxidizing agents and strong alkali.  
Reacts with strong acids.
- **Conditions to avoid**  
Moisture.  
Excessive heat.
- **Incompatible materials** Oxidizers, strong bases, strong acids
- **Hazardous decomposition products**  
Carbon monoxide and carbon dioxide  
Nitrogen oxides (NOx)

### 11 Toxicological information

- **Information on toxicological effects**
  - **Acute toxicity:** Based on available data, the classification criteria are not met.
  - **LD/LC50 values that are relevant for classification:**
- |   |      |                   |
|---|------|-------------------|
| <b>68479-98-1 diethylmethylbenzenediamine</b> |      |                   |
| Oral  | LD50 | 738 mg/kg (rat)   |
| Dermal  | LD50 | >2000 mg/kg (rat) |
- **Primary irritant effect:**
  - **On the skin:** Based on available data, the classification criteria are not met.
  - **On the eye:** Based on available data, the classification criteria are not met.

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- **Sensitization:** Based on available data, the classification criteria are not met.
- **IARC (International Agency for Research on Cancer):**  
None of the ingredients are listed.
- **NTP (National Toxicology Program):**  
None of the ingredients are listed.
- **OSHA-Ca (Occupational Safety & Health Administration):**  
None of the ingredients are listed.
- **Probable route(s) of exposure:**  
Ingestion.  
Inhalation.  
Eye contact.  
Skin contact.
- **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.
- **Carcinogenicity:** Based on available data, the classification criteria are not met.
- **Reproductive toxicity:** Based on available data, the classification criteria are not met.
- **STOT-single exposure:** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure:** May cause damage to organs through prolonged or repeated exposure.
- **Aspiration hazard:** Based on available data, the classification criteria are not met.

### 12 Ecological information

- **Toxicity**
- **Aquatic toxicity** No relevant information available.
- **Persistence and degradability** No relevant information available.
- **Bioaccumulative potential:** No relevant information available.
- **Mobility in soil:** No relevant information available.
- **Additional ecological information**
- **General notes:**  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No relevant information available.

### 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**  
The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.
- **Uncleaned packagings**
- **Recommendation:** Disposal must be made according to official regulations.

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**14 Transport information**

· <b>UN-Number</b>	
· <b>DOT</b>	Not regulated.
· <b>ADR, IMDG, IATA</b>	UN3082
· <b>UN proper shipping name</b>	
· <b>DOT</b>	Not regulated.
· <b>ADR, IMDG, IATA</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (diethylmethylbenzenediamine)
· <b>Transport hazard class(es)</b>	
· <b>DOT</b>	
· <b>Class</b>	Not regulated.
· <b>ADR</b>	
· <b>Class</b>	9 (M6)
· <b>Label</b>	9
· <b>IMDG, IATA</b>	
· <b>Class</b>	9
· <b>Label</b>	9
· <b>Packing group</b>	
· <b>DOT</b>	Not regulated.
· <b>ADR, IMDG, IATA</b>	III
· <b>Environmental hazards</b>	
· <b>Marine pollutant:</b>	Symbol (fish and tree)
· <b>Special precautions for user</b>	Warning: Miscellaneous dangerous substances and articles
· <b>Danger code (Kemler):</b>	90
· <b>EMS Number:</b>	F-A,S-F
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	Not regulated when carried in single or combination packaging containing a net quantity of 5 L or less for liquids or 5 kg or less for solids per the following: ADR: SP 375 IMDG: 2.10.2.7 IATA: special provision A197

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**· DOT**
**· Remarks:**

Transport labeling is not required for non-bulk single package shipments by motor vehicle, rail car or aircraft. Bulk packaging consists of a maximum capacity of greater than 450L (119 gallons) for a liquid and a maximum net mass greater than 400kg (882 pounds) for a solid.

**15 Regulatory information**
**· Safety, health and environmental regulations/legislation specific for the substance or mixture**
**· United States (USA)**
**· SARA**
**· Section 302 (extremely hazardous substances):**

None of the ingredients are listed.

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

None of the ingredients are listed.

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

None of the ingredients are listed.

**· TSCA (Toxic Substances Control Act)**

All ingredients are listed.

**· Proposition 65 (California)**
**· Chemicals known to cause cancer:**

None of the ingredients are listed.

**· Chemicals known to cause developmental toxicity for females:**

None of the ingredients are listed.

**· Chemicals known to cause developmental toxicity for males:**

None of the ingredients are listed.

**· Chemicals known to cause developmental toxicity:**

None of the ingredients are listed.

**· EPA (Environmental Protection Agency):**

None of the ingredients are listed.

**· IARC (International Agency for Research on Cancer):**

None of the ingredients are listed.

**· Canadian Domestic Substances List (DSL) (Substances not listed.):**

All ingredients are listed.

**16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any

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specific product features and shall not establish a legally valid contractual relationship.

**Abbreviations and acronyms:**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road  
 IMDG: International Maritime Code for Dangerous Goods  
 DOT: US Department of Transportation  
 IATA: International Air Transport Association  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 PBT: Persistent, Bio-accumulable, Toxic  
 vPvB: very Persistent and very Bioaccumulative  
 OSHA: Occupational Safety & Health Administration  
 Acute Tox. 4: Acute toxicity – Category 4  
 Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A  
 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

**Sources**

Website, European Chemicals Agency (echa.europa.eu)  
 Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/overview/home.do)  
 Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)  
 Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6  
 Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaassen, Curtis D., ed., ISBN: 978-0-07-176923-5.  
 Safety Data Sheets, Individual Manufacturers

**SDS Prepared by:**

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 1305 North Florida Avenue  
 Tampa, Florida USA 33602-2902  
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### 1 Identification

- **Product identifier**
- **Trade name:** Edge-Pro 90 (Part B)
- **Product code:** No other identifiers
- **Recommended use and restriction on use**
- **Recommended use:** Polyurea joint filler
- **Restrictions on use:** For Professional Use Only
- **Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**  
 METZGER/McGUIRE  
 Mailing Address:  
 PO Box 2217  
 Concord, NH 03302  
 Shipping Address:  
 807 Route 3-A  
 Bow, NH 03304  
 Phone: 603-224-6122  
 Toll Free: 800-223-6680  
 Email: info@metzgermcguire.com
- **Emergency telephone number:**  
 ChemTel Inc.  
 (800)255-3924 (North America)  
 +1 (813)248-0585 (International)

### 2 Hazard(s) identification

- **Classification of the substance or mixture**
- Acute Tox. 4 H332 Harmful if inhaled.
- Skin Irrit. 2 H315 Causes skin irritation.
- Eye Irrit. 2A H319 Causes serious eye irritation.
- Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- Skin Sens. 1 H317 May cause an allergic skin reaction.
- STOT SE 3 H335 May cause respiratory irritation.
- STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

**Label elements**
**GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

**Hazard pictograms:**


GHS07 GHS08

- **Signal word:** Danger
- **Hazard statements:**  
 H332 Harmful if inhaled.  
 H315 Causes skin irritation.

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- H319 Causes serious eye irritation.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H317 May cause an allergic skin reaction.
- H335 May cause respiratory irritation.
- H373 May cause damage to organs through prolonged or repeated exposure.
- Precautionary statements:**
  - P260 Do not breathe mist/vapors/spray.
  - P264 Wash thoroughly after handling.
  - P271 Use only outdoors or in a well-ventilated area.
  - P272 Contaminated work clothing must not be allowed out of the workplace.
  - P280 Wear protective gloves/protective clothing/eye protection.
  - P284 [In case of inadequate ventilation] wear respiratory protection.
  - P302+P352 If on skin: Wash with plenty of soap and water.
  - P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
  - P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  - P312 Call a poison center/doctor if you feel unwell.
  - P314 Get medical advice/attention if you feel unwell.
  - P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
  - P337+P313 If eye irritation persists: Get medical advice/attention.
  - P342+P311 If experiencing respiratory symptoms: Call a poison center/doctor.
  - P362+P364 Take off contaminated clothing and wash it before reuse.
  - P403+P233 Store in a well-ventilated place. Keep container tightly closed.
  - P405 Store locked up.
  - P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Other hazards** There are no other hazards not otherwise classified that have been identified.

### 3 Composition/information on ingredients

**Chemical characterization: Mixtures**

**Components:**

101-68-8	4,4'-methylenediphenyl diisocyanate <ul style="list-style-type: none"> <li>⚠ Resp. Sens. 1, H334; STOT RE 2, H373</li> <li>⚠ Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335</li> </ul>	15-80%
26447-40-5	methylenediphenyl diisocyanate <ul style="list-style-type: none"> <li>⚠ Resp. Sens. 1, H334; STOT RE 2, H373</li> <li>⚠ Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335</li> </ul>	5-15%

**Additional information:**

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret.  
 For the wording of the listed Hazard Statements, refer to section 16.

### 4 First-aid measures

**Description of first aid measures**

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- After inhalation:**
  - Supply fresh air and to be sure to call for a doctor.
  - Provide oxygen treatment if affected person has difficulty breathing.
  - In case of irregular breathing or respiratory arrest provide artificial respiration.
  - In case of unconsciousness place patient stably in side position for transportation.
- After skin contact:**
  - Immediately remove any clothing soiled by the product.
  - Immediately wash with water and soap and rinse thoroughly.
  - If skin irritation or rash occurs: Get medical advice/attention.
- After eye contact:**
  - Remove contact lenses if worn.
  - Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing:**
  - Rinse out mouth and then drink plenty of water.
  - Do not induce vomiting; immediately call for medical help.
- Most important symptoms and effects, both acute and delayed:**
  - Asthma attacks
  - Breathing difficulty
  - Coughing
  - Dizziness
  - Allergic reactions
  - May cause respiratory irritation.
  - Irritating to eyes, respiratory system and skin.
  - Gastric or intestinal disorders when ingested.
  - Nausea in case of ingestion.
- Danger:**
  - Danger of impaired breathing.
  - Harmful if inhaled.
  - May cause damage to organs through prolonged or repeated exposure.
  - Suspected of causing cancer.
- Indication of any immediate medical attention and special treatment needed:**
  - Contains 4,4'-methylenediphenyl diisocyanate, methylenediphenyl diisocyanate. May produce an allergic reaction.
  - Severe allergic skin reaction, bronchial spasms and anaphylactic shock are possible.
  - Medical supervision for at least 48 hours.
  - If necessary oxygen respiration treatment.
  - Later observation for pneumonia and pulmonary edema.
  - Treat skin and mucous membrane with antihistamine and corticoid preparations.
  - In cases of irritation to the lungs, initial treatment with corticoid steroid inhalants.

### 5 Fire-fighting measures

- Extinguishing media**
- Suitable extinguishing agents:**
  - CO2, extinguishing powder or water spray. Fight larger fires with water spray.
- For safety reasons unsuitable extinguishing agents:** Water stream.
- Special hazards arising from the substance or mixture**
  - During heating or in case of fire poisonous gases are produced.
- Advice for firefighters**
- Protective equipment:**

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Wear self-contained respiratory protective device.  
Do not inhale explosion gases or combustion gases.  
Wear fully protective suit.

· **Additional information:** Cool endangered receptacles with water spray.

### 6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures**

Use respiratory protective device against the effects of fumes/dust/aerosol.

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation.

Isolate area and prevent access.

· **Environmental precautions**

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

· **Methods and material for containment and cleaning up**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Send for recovery or disposal in suitable receptacles.

· **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### 7 Handling and storage

· **Handling**

· **Precautions for safe handling:**

Prevent formation of aerosols.

Avoid splashes or spray in enclosed areas.

Use only in well ventilated areas.

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

Keep respiratory protective device available.

· **Conditions for safe storage, including any incompatibilities**

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

Avoid storage near extreme heat, ignition sources or open flame.

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

Store away from foodstuffs.

Store away from oxidizers, strong acids, strong bases.

· **Further information about storage conditions:**

Keep containers tightly sealed.

Protect from humidity and water.

· **Specific end use(s)** No relevant information available.

### 8 Exposure controls/personal protection

· **Control parameters**

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· **Components with limit values that require monitoring at the workplace:**

**101-68-8 4,4'-methylenediphenyl diisocyanate**

PEL (USA)	Ceiling limit value: 0.2 mg/m <sup>3</sup> , 0.02 ppm
REL (USA)	Long-term value: 0.05 mg/m <sup>3</sup> , 0.005 ppm Ceiling limit value: 0.2* mg/m <sup>3</sup> , 0.02* ppm *10-min
TLV (USA)	Long-term value: 0.051 mg/m <sup>3</sup> , 0.005 ppm
EL (Canada)	Long-term value: 0.005 ppm Ceiling limit value: 0.01 ppm Skin; S(R)
EV (Canada)	Long-term value: 0.005 ppm Ceiling limit value: 0.02 ppm
LMPE (Mexico)	Long-term value: 0.005 ppm

**26447-40-5 methylenediphenyl diisocyanate**

EL (Canada)	Long-term value: 0.005 ppm Ceiling limit value: 0.01 ppm S
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· **Exposure controls**

· **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

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 breathing mist, vapors, or spray.

Avoid contact with the eyes and skin.

· **Engineering controls:** No relevant information available.

· **Breathing equipment:**



Combined Organic Vapor and Particulate Respirator is recommended for use during all processing activities.

· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

· **Eye protection:**



Safety glasses

Follow relevant national guidelines concerning the use of protective eyewear.

· **Body protection:** Protective work clothing

· **Limitation and supervision of exposure into the environment**

No relevant information available.

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### 9 Physical and chemical properties

#### Information on basic physical and chemical properties

- **Appearance:**
  - **Form:** Liquid
  - **Color:** Clear
- **Odor:** Faint, aromatic
- **Odor threshold:** Not determined.
- **pH-value:** Not determined.
- **Melting point/Melting range:** <0 °C (<32 °F)
- **Boiling point/Boiling range:** >200 °C (>392 °F)
- **Flash point:** >200 °C (>392 °F)
- **Flammability (solid, gaseous):** Not applicable.
- **Auto-ignition temperature:** Not determined.
- **Decomposition temperature:** Not determined.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Explosion limits**
  - **Lower:** Not determined.
  - **Upper:** Not determined.
- **Oxidizing properties:** Not determined.
- **Vapor pressure:** Not determined.
- **Density:**
  - **Relative density at 20 °C (68 °F):** 1.10 g/cm<sup>3</sup> (9.18 lbs/gal)
  - **Vapor density:** Not determined.
  - **Evaporation rate:** Not determined.
- **Solubility in / Miscibility with**
  - **Water:** Slowly reacts with water.
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity**
  - **Dynamic:** Not determined.
  - **Kinematic:** Not determined.
- **Other information** No relevant information available.

### 10 Stability and reactivity

- **Reactivity:** No relevant information available.
- **Chemical stability:** Stable under normal temperatures and pressures.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used and stored according to specifications.
- **Possibility of hazardous reactions**
  - Toxic fumes may be released if heated above the decomposition point.
  - Reacts with alcohols, amines, aqueous acids and alkalis.

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- Reacts with strong oxidizing agents.
- Exothermic reaction.
- **Conditions to avoid** Excessive heat.
- **Incompatible materials** Oxidizers, strong bases, strong acids
- **Hazardous decomposition products**
  - Carbon monoxide and carbon dioxide
  - Nitrogen oxides (NOx)
  - Hydrogen cyanide (prussic acid)
  - Isocyanate

### 11 Toxicological information

#### Information on toxicological effects

- **Acute toxicity:** Harmful if inhaled.

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

**101-68-8 4,4'-methylenediphenyl diisocyanate**

Oral | LD50 | 2200 mg/kg (mouse)

#### Primary irritant effect:

- **On the skin:** Irritant to skin and mucous membranes.
- **On the eye:** Irritating effect.
- **Sensitization:** May cause sensitisation by inhalation and skin contact.

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

None of the ingredients are listed.

#### NTP (National Toxicology Program):

None of the ingredients are listed.

#### OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

#### Probable route(s) of exposure:

- Ingestion.
- Inhalation.
- Eye contact.
- Skin contact.
- **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.
- **Carcinogenicity:** Based on available data, the classification criteria are not met.
- **Reproductive toxicity:** Based on available data, the classification criteria are not met.
- **STOT-single exposure:** May cause respiratory irritation.
- **STOT-repeated exposure:** May cause damage to organs through prolonged or repeated exposure.
- **Aspiration hazard:** Based on available data, the classification criteria are not met.

### 12 Ecological information

- **Toxicity**
- **Aquatic toxicity** No relevant information available.
- **Persistence and degradability** No relevant information available.
- **Bioaccumulative potential:** No relevant information available.

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- **Mobility in soil:** No relevant information available.
- **Additional ecological information**
- **General notes:**  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No relevant information available.

### 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**  
Can be disposed of with household garbage after solidification following consultation with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations. The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.
- **Uncleaned packagings**
- **Recommendation:** Disposal must be made according to official regulations.

### 14 Transport information

- **UN-Number**
- **DOT, ADR, ADN, IMDG, IATA** Not regulated.
- **UN proper shipping name**
- **DOT, ADR, IMDG, IATA** Not regulated.
- **Transport hazard class(es)**
- **DOT, ADR, IMDG, IATA**
- **Class** Not regulated.
- **Packing group**
- **DOT, ADR, IMDG, IATA** Not regulated.
- **Environmental hazards**
- **Marine pollutant:** No
- **Special precautions for user** Not applicable.
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

### 15 Regulatory information

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- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **United States (USA)**
- **SARA**

· **Section 302 (extremely hazardous substances):**  
None of the ingredients are listed.

· **Section 355 (extremely hazardous substances):**  
None of the ingredients are listed.

· **Section 313 (Specific toxic chemical listings):**  
101-68-8 | 4,4'-methylenediphenyl diisocyanate

· **TSCA (Toxic Substances Control Act)**  
All ingredients are listed.

· **Proposition 65 (California)**

· **Chemicals known to cause cancer:**  
None of the ingredients are listed.

· **Chemicals known to cause developmental toxicity for females:**  
None of the ingredients are listed.

· **Chemicals known to cause developmental toxicity for males:**  
None of the ingredients are listed.

· **Chemicals known to cause developmental toxicity:**  
None of the ingredients are listed.

· **EPA (Environmental Protection Agency):**  
101-68-8 | 4,4'-methylenediphenyl diisocyanate | D, CBD

· **IARC (International Agency for Research on Cancer):**  
None of the ingredients are listed.

· **Canadian Domestic Substances List (DSL) (Substances not listed.):**  
All ingredients are listed.

### 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.

- **Abbreviations and acronyms:**  
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road  
IMDG: International Maritime Code for Dangerous Goods  
DOT: US Department of Transportation  
IATA: International Air Transport Association  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bio-accumulable, Toxic  
vPvB: very Persistent and very Bioaccumulative  
OSHA: Occupational Safety & Health Administration  
Acute Tox. 4: Acute toxicity – Category 4  
Skin Irrit. 2: Skin corrosion/irritation – Category 2

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Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A  
Resp. Sens. 1: Respiratory sensitisation – Category 1  
Skin Sens. 1: Skin sensitisation – Category 1  
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

**Sources**

Website, European Chemicals Agency (echa.europa.eu)  
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Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)  
Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6  
Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.  
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