

**SAFETY DATA SHEET****IML EASYCORE 109FL-B (hardener)**

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Revision : 1.1

Date : September 20, 2017

Supersedes : 24/07/2012

**1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING.****1.1. Product identifier.**

Product name: IML Easycore109FL-B.

**1.2. Relevant identified uses of the substance or mixture and uses advised against.**

Use of substance/mixture: PC1: Adhesives, sealants.

**1.3. Details of the supplier of the safety data sheet.**

Company name: Simco (Nederland) BV  
Aalsvoort 74  
7241MB Lochem  
the Netherlands

Tel: +31 573 288333  
Fax: +31 573 288380  
Email: [general@simco-ion.nl](mailto:general@simco-ion.nl)

**1.4. Emergency telephone number.**

Emergency tel: +31 (0) 573 288333 (office hours only) / EU: 112

**2. HAZARDS IDENTIFICATION.****2.1. Classification of the substance or mixture**

Classification under CLP: Acute Tox. 4: H332; Skin Irrit. 2: H315; Eye Irrit. 2: H319; Resp. Sens. 1: H334; Skin Sens. 1: H317; Carc. 2: H351; STOT RE 2: H373; STOT SE 3: H335; -: EUH204

Most important adverse effects: Harmful if inhaled. Causes skin irritation. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Suspected of causing cancer. May cause an allergic skin reaction. May cause respiratory irritation. May cause damage to organs ([lungs]) through prolonged or repeated exposure ([inhalation (dust/mist)]). Contains isocyanates. May produce an allergic reaction.

**2.2. Label elements.**

Label elements:

Hazard statements:

H332: Harmful if inhaled.  
H315: Causes skin irritation.  
H319: Causes serious eye irritation.  
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H351: Suspected of causing cancer.  
H317: May cause an allergic skin reaction.  
H335: May cause respiratory irritation.  
H373: May cause damage to organs ([lungs]) through prolonged or repeated exposure ([inhalation (dust/mist)]).  
EUH204: Contains isocyanates. May produce an allergic reaction.

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Hazard pictograms:

GHS08: Health hazard  
 GHS07: Exclamation mark



Signal words:

Danger

Precautionary statements:

P260: Do not breathe dust/fumes/gas/mist/vapours/spray.  
 P301+P312: IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.  
 P280: Wear protective gloves/protective clothing/eye protection/face protection.  
 P302+P352: IF ON SKIN: Wash with plenty of water.  
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P304+P341: IF INHALED: if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P308+P313: IF exposed or concerned: Get medical advice/attention.

**2.3. Other Hazards.**

PBT:

This substance is not identified as a PBT/vPvB substance.

**3. COMPOSITION/INFORMATION ON INGREDIENTS.**

**3.1. Substances**

Not applicable

**3.2. Mixtures.**

**Hazardous ingredients:**

**DIPHENYLMETHANEDIISOCYANATE (ISOMERS & HOMOLOGUES)**

EINECS	CAS	PBT / WEL	CLP Classification	Percent
618-498-9	9016-87-9	-	Carc. 2: H351; Acute Tox. 4: H332; Skin Irrit. 2: H315; STOT RE 2: H373; Eye Irrit. 2: H319; STOT SE 3: H335; Resp. Sens. 1: H334; Skin Sens. 1: H317; -: EUH204	50-70%

**4,4'-METHYLENEDIPHENYL DIISOCYANATE - REACH registered number(s): 01-2119457014-47-XXXX**

202-966-0	101-68-8	-	Carc. 2: H351; STOT RE 2: H373; Acute Tox. 4: H332; Skin Irrit. 2: H315; Eye Irrit. 2: H319; STOT SE 3: H335; Resp. Sens. 1: H334; Skin Sens. 1: H317	30-50%
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### 4. FIRST AID MEASURES.

#### 4.1. Descriptions of first aid measures.

Skin contact: Wash immediately with plenty of soap and water. Consult a doctor.  
 Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.  
 Ingestion: Do not induce vomiting. Wash out mouth with water.  
 Consult a doctor.  
 Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. If conscious, ensure the casualty sits or lies down. If unconscious and breathing is OK, place in the recovery position. If breathing becomes bubbly, have the casualty sit and provide oxygen if available. Transfer to hospital as soon as possible.

#### 4.2. Most important symptoms and effects, both acute and delayed.

Skin contact: There may be mild irritation at the site of contact.  
 Eye contact: There may be irritation and redness. The eyes may water profusely.  
 Ingestion: There may be irritation of the throat. There may be shortness of breath due to congestion of the lungs.  
 Inhalation: Exposure may cause coughing or wheezing. There may be congestion of the lungs causing severe shortness of breath.  
 Delayed / immediate effects: Delayed effects can be expected after long-term exposure.

#### 4.3. Indication of any immediate medical attention and special treatment needed.

Immediate / special treatment: Show this safety data sheet to the doctor in attendance.

### 5. FIRE-FIGHTING MEASURES.

#### 5.1. Extinguishing media.

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Alcohol resistant foam. Dry chemical powder.  
 Carbon dioxide. Do not use water.

#### 5.2. Special hazards arising from the substance or mixture.

Exposure hazards: In combustion emits toxic fumes.

#### 5.3. Advice for fire-fighters.

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

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**6. ACCIDENTAL RELEASE MEASURES.**

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

Personal precautions: Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not attempt to take action without suitable protective clothing – see section 8 of SDS.

**6.2. Environmental precautions.**

Environmental precautions: Do not discharge into drains or rivers. Alert the neighbourhood to the presence of fumes or gas. Contain the spillage using bunding.

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

Clean-up procedures: Clean-up should be dealt with only by qualified personnel familiar with the specific substance. Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

**6.4. Reference to other sections.**

Reference to other sections: Refer to section 8 of SDS.

**7. HANDLING AND STORAGE.**

**7.1. Precautions for safe handling.**

Handling requirements: Ensure there is exhaust ventilation of the area. Avoid the formation or spread of mists in the air.

**7.2. Conditions for safe storage, including any incompatibilities.**

Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed.  
 Suitable packaging: Must only be kept in original packaging.

**7.3. Specific end use(s).**

Specific end use(s): PC1: Adhesives, sealants.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION.**

**8.1. Control parameters.**

Hazardous ingredients:

**DIPHENYLMETHANEDIISOCYANATE (ISOMERS & HOMOLOGUES)**

**Workplace exposure limits:**

**Respirable dust:**

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	0.02 mg/m <sup>3</sup>	0.07 mg/m <sup>3</sup>	-	-

**4,4'-METHYLENEDIPHENYL DIISOCYANATE**

UK	0.02 mg/m <sup>3</sup>	0.07 mg/m <sup>3</sup>	-	-
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**DNEL/PNEC Values**

**Hazardous ingredients:**

**4,4'-METHYLENEDIPHENYL DIISOCYANATE**

Type	Exposure	Value	Population	Effect
DNEL	Inhalation	50 ug/m3	Workers	Local
DNEL	Inhalation	100 ug/m3	Workers	Local
PNEC	Fresh water	1 mg/L	-	-
PNEC	Marine water	100 ug/L	-	-
PNEC	Microorganisms in sewage treatment	1 mg/L	-	-
PNEC	Soil (agricultural)	1 mg/kg	-	-

**8.2. Exposure controls**

- Engineering measures: Ensure there is exhaust ventilation of the area.
- Respiratory protection: Self-contained breathing apparatus must be used in handling.
- Hand protection: Protective gloves.
- Eye protection: Safety glasses. Ensure eye bath is to hand.
- Skin protection: Protective clothing

**9. PHYSICAL AND CHEMICAL PROPERTIES.**

**9.1. Information on basic physical and chemical properties.**

- State: Liquid
- Colour: Pale brown
- Solubility in water: Insoluble
- Boiling point/range °C: 245
- Flash point °C: 230
- Relative density: 1.23

**9.2. Other information.**

- Other information: No data available.

**10. STABILITY AND REACTIVITY.**

**10.1. Reactivity.**

- Reactivity: Stable under recommended transport or storage conditions.

**10.2. Chemical stability.**

- Chemical stability: Stable under normal conditions.

**10.3. Possibility of hazardous reactions.**

- Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below. Water reactive: will react with water or moisture to produce heat and flammable/toxic gases.

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**10.4. Conditions to avoid.**

Conditions to avoid: Heat. Moist air.

**10.5. Incompatible materials.**

Materials to avoid: Water. Alcohols. Amines. Strong oxidising agents. Strong acids. Strong bases.

**10.6. Hazardous decomposition products.**

Haz. decomp. products: In combustion emits toxic fumes.

**11. TOXICOLOGICAL INFORMATION.**

**11.1. Information on toxicological effects.**

**Toxicity values:**

Route	Species	Test	Value	Units
DERMAL	RBT	LD50	>9400	mg/kg
DUST/MIST	RAT	4H LC50	310	mg/l
ORAL	RAT	LD50	>10000	mg/kg

**Hazardous ingredients:**

**DIPHENYLMETHANEDIISOCYANATE (ISOMERS & HOMOLOGUES)**

DERMAL	RBT	LD50	>9400	mg/kg
DUST/MIST	RAT	4H LC50	0.49	mg/l
ORAL	RAT	LD50	>10000	mg/kg

**4,4'-METHYLENEDIPHENYL DIISOCYANATE**

DUST/MIST	RAT	4H LC50	0.368	mg/l
ORAL	RAT	LD50	9200	mg/kg

**Relevant hazards for product:**

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	INH	Hazardous: calculated
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated
Respiratory/skin sensitisation	INH DRM	Hazardous: calculated
Carcinogenicity	--	Hazardous: calculated
STOT-single exposure	INH	Hazardous: calculated
STOT-repeated exposure	-	Hazardous: calculated

**11.2. Symptoms/routes of exposure.**

Skin contact: There may be irritation at the site of contact.  
 Eye contact: There may be irritation and redness. The eyes may water profusely.  
 Ingestion: There may be irritation of the throat. There may be shortness of breath due to congestion of the lungs.  
 Inhalation: Exposure may cause coughing or wheezing. There may be congestion of the lungs causing severe shortness of breath.  
 Delayed/immediate effects: Delayed effects can be expected after long-term exposure.

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### 12. ECOLOGICAL INFORMATION.

#### 12.1. Toxicity.

##### Hazardous ingredients:

##### DIPHENYLMETHANEDIISOCYANATE (ISOMERS & HOMOLOGUES)

Daphnia magna	48H EC50	>1640	mg/l
ZEBRAFISH (Brachydanio rerio)	96H LC50	>1000	mg/l

##### 4,4'-METHYLENEDIPHENYL DIISOCYANATE

Scenedesmus Subspicatus	72H ErC50	>1640	mg/l
ZEBRAFISH (Brachydanio rerio)	96H ErC50	>1000	mg/l

#### 12.2. Persistence and degradability.

Persistence and degradability: Not readily biodegradable.

#### 12.3. Bioaccumulative potential.

Bioaccumulative potential: Slightly bioaccumulable.

#### 12.4. Mobility in soil.

Mobility: Reacts with water.

#### 12.5. Results of PBT and vPvB assessment.

PBT identification: This substance is not identified as a PBT/vPvB substance.

#### 12.6. Other adverse effects.

Other adverse effects: Negligible ecotoxicity.

### 13. DISPOSAL CONSIDERATIONS.

#### 13.1. Waste treatment methods.

Disposal operations: Transfer to a suitable container and arrange for collection by specialized disposal company.

Waste code number: 08 05 01

Disposal of packaging: Arrange for collection by specialised disposal company.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

### 14. TRANSPORT INFORMATION.

Transport class: This product does not require a classification for transport.

### 15. REGULATORY INFORMATION.

#### 15.1. Safety health and environmental regulations/legislation specific for the substance or mixture.

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Specific regulations: Not applicable.

**15.2. Chemical Safety Assessment.**

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

**16. OTHER INFORMATION.**

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) N° 2015/830.

Phrases used in s.2 and 3:

EUH204: Contains isocyanates. May produce an allergic reaction.  
 H315: Causes skin irritation.  
 H317: May cause an allergic skin reaction.  
 H319: Causes serious eye irritation.  
 H332: Harmful if inhaled.  
 H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
 H335: May cause respiratory irritation.  
 H351: Suspected of causing cancer ([inhalation]).  
 H371: May cause damage to organs ([lungs]) through prolonged or repeated exposure ([inhalation (dust/mist)]).  
 H373: May cause damage to organs ([respiratory system]) through prolonged or repeated exposure ([inhalation (dust/mist)]).

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.