



MATERIAL SAFETY DATA SHEET

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Revision nr : 1

Date : 18 / 9 / 2009

Supersedes : 0 / 0 / 0

PC LEAKINJECT UNI 6816 E**PC 6816 E**

Xn : Harmful

Danger**Producer**

ECC N.V.
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Responsible for distribution

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SECTION 1. Identification of the substance/mixture and of the company/enterprise**1.1. Product identifier**

Identification of the product : Liquid.
Trade name : PC LEAKINJECT UNI 6816 E.

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

Use : Injection resin for waterproofing.

1.3. Details of the supplier of the safety data sheet

Company identification : See producer.

1.4. Emergency telephone number

Emergency telephone number : +32 3 828 94 95

SECTION 2. Hazards identification**2.1. Classification of the substance or mixture****Classification EC 67/548 or EC 1999/45**

Carc. Cat. 3; R40
Xn; R20
Xi; R36/37/38
R42/43

Hazard Class and Category Code Regulation EC 1272/2008 (CLP)

- **Health hazards**
 - : Skin irritation - Category 2 - Warning
 - Eye irritation - Category 2A - Warning (CLP : Eye Irrit. 2)
 - Respiratory sensitization - Category 1 - Danger (CLP : Resp. Sens. 1)
 - Skin sensitisation - Category 1 - Warning (CLP : Skin Sens. 1)
 - Carcinogenicity - Category 2 - Warning (CLP : Carc. 2)
 - Specific Target Organ Toxicity - Single exposure - Respiratory tract irritation - Category 3 - Warning (CLP : STOT SE 3)
 - Specific Target Organ Toxicity - Repeated exposure - Category 2 - Warning (CLP :

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SECTION 2. Hazards identification (continued)

STOT RE 2)

2.2. Label elements

Labelling EC 67/548 or EC 1999/45

• Symbol(s)



: Harmful.

• R Phrase(s)

: R20 - Harmful by inhalation.
R36/37/38 - Irritating to eyes, respiratory system and skin.
R40 - Limited evidence of a carcinogenic effect.
R42/43 - May cause sensitization by inhalation and skin contact.

• S Phrase(s)

: S23 - Do not breathe gas/fumes/vapour/spray.
S37 - Wear suitable gloves.
S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label when possible).

Labelling Regulation EC 1272/2008 (CLP)

• Hazard pictograms



• Hazard pictograms code

: SGH08

• Signal words

: Danger

• Hazard statements

: H319 - Causes serious eye irritation.
H315 - Causes skin irritation.
H335 - May cause respiratory irritation.
H373 - May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
H317 - May cause an allergic skin reaction.
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H351 - Suspected of causing cancer <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

• Pictograms (Precautionary statements)



• Precautionary statements

- Prevention

: P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.

- Response

: P304+P341 - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338+P337+P313 - IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists : Get medical advice.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

- Disposal considerations

: P501C - Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

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SECTION 2. Hazards identification (continued)

None under normal conditions.

SECTION 3. Composition/information on ingredients

Substance / Preparation : Preparation.

This product is considered to be hazardous and contains hazardous components.

Composition (prepar.) :

Substance name	Value(s)	CAS nr	EINECS nr	EC index	REACH	CERTIFICATE
Diphenylmethanediisocyanate, isomers and homologues	21 - 40 %	9016-87-9	-----	-----	-----	Xn; R20 Xi; R36/37/38 R42/43 ----- Resp. Sens. 1 Acute Tox. 4 (inhal) Eye irrit 2 Skin Irrit. 2 STOT SE 3 Skin Sens. 1
<i>MAC [ppm] : .005</i>						
Diphenylmethane-4,4'-diisocyanate	11 - 30 %	101-68-8	202-966-0	615-005-00-9	-----	Carc. Cat. 3; R40 Xn; R20-48/20 Xi; R36/37/38 R42/43 ----- Resp. Sens. 1 Acute Tox. 4 (inhal) Carc. 2 Eye irrit 2 Skin Irrit. 2 STOT SE 3 Skin Sens. 1 STOT RE 2
<i>TLV-TWA [mg/m3] : .052</i> <i>TLV-TWA [ppm] : .005</i> <i>MAC [ppm] : .005</i> <i>48 H-CE50 - Daphnia magna [mg/l] : 1000</i> <i>LC50-96 Hour - fish [mg/l] : 1000</i>						
Modified MDI	10 - 20 %	53862-89-8	-----	-----	-----	Xn; R20 Xi; R36/37/38 R42/43 ----- Resp. Sens. 1 Acute Tox. 4 (inhal) Eye irrit 2 Skin Irrit. 2 STOT SE 3 Skin Sens. 1
Dimethylsuccinate	1 - 10 %	106-65-0	203-419-9	-----	-----	Xi; R36 ----- Eye irrit 2
Diphenylmethane-2,4'-diisocyanate	2 - 20 %	5873-54-1	227-534-9	615-005-00-9	-----	Carc. Cat. 3; R40 Xn; R20-48/20 Xi; R36/37/38 R42/43 ----- Resp. Sens. 1 Acute Tox. 4 (inhal) Carc. 2 Eye irrit 2 Skin Irrit. 2 STOT SE 3 Skin Sens. 1 STOT RE 2
Isocyanates, reaction product of polyol with methylenediphenyl diisocyanate	1 - 10 %	-----	-----	-----	-----	Xn; R20 Xi; R36/37/38 R42/43 ----- Resp. Sens. 1 Acute Tox. 4 (inhal) Eye irrit 2 Skin Irrit. 2 STOT SE 3 Skin Sens. 1
Methylenediphenyl diisocyanate	1 - 10 %	26447-40-5	247-714-0	615-005-00-9	-----	Carc. Cat. 3; R40 Xn; R20-48/20 Xi; R36/37/38 R42/43 ----- Resp. Sens. 1 Acute Tox. 4 (inhal) Carc. 2 Eye irrit 2 Skin Irrit. 2 STOT SE 3 Skin Sens. 1

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SECTION 3. Composition/information on ingredients (continued)

Polyether-Modified Polysiloxane : 0.01 - 1 %

STOT RE 2

Xi; R36/38

Eye irrit 2

Skin Irrit. 2

SECTION 4. First aid measures

4.1. Description of first aid measures

First aid

- Inhalation : Assure fresh air breathing. If you feel unwell, seek medical advice.
- Skin contact : Wash skin with mild soap and water.
- Eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
- Ingestion : Never give anything by mouth to an unconscious person.
DO NOT INDUCE VOMITING.
Obtain emergency medical attention.

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

Symptoms relating to use

- Inhalation : May cause irritation to the respiratory tract and to other mucous membranes. Breathing difficulties. Chest pain. Cough.
- Skin contact : Redness, pain.
- Eye contact : Redness, pain. Blurred vision. Tears.
- Ingestion : Harmful if swallowed.

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

No data available.

SECTION 5. Fire-fighting measures

5.1. Extinguishing media

Extinguishing media

- Suitable : Foam.
Carbon dioxide.
Powder.
- Not to be used : Reacts slowly with water, generate gases (CO₂) and overpressure : rupture containers.

5.2. Special hazards arising from the substance or mixture

On exposure to high temperature, may decompose, releasing toxic gases.

5.3. Advice for fire-fighters

- Flammable class** : Combustible.
- Protection against fire** : Do not enter fire area without proper protective equipment, including respiratory protection.
- Prevention** : Keep away from sources of ignition. No smoking.
- Special procedures** : Exercise caution when fighting any chemical fire.
- Surrounding fires** : Use water spray or fog for cooling exposed containers.

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SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Spill should be handled by trained cleaning personnel properly equipped with respiratory and eye protection.

6.2. Environmental precautions

Notify authorities if product enters sewers or public waters.
Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

After spillage and/or leakage : Collect spills and put it into appropriated container.

6.4. Reference to other sections

See section 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Personal protection : Ensure prompt removal from eyes, skin and clothing.
Handling : Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work.
Personal protection : Avoid all unnecessary exposure.
Handling : Keep away from food, drink and animal feeding stuffs.
Technical protective measures : Both local exhaust and general room ventilation are usually required.

7.2. Conditions for safe storage, including any incompatibilities

Storage : Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use.

7.3. Specific end use(s)

See technical datasheet.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Personal protection
- **Respiratory protection** : Organic Vapour Filters - Class 2 Conforms to EN 141
- **Skin protection** : None under normal conditions. Avoid repeated or prolonged skin contact.
- **Eye protection** : Chemical goggles or safety glasses.
- **Hand protection** : Gloves.
- **Ingestion** : When using, do not eat, drink or smoke.
Industrial hygiene : Provide local exhaust or general room ventilation.

8.2. Occupational Exposure Limits

Occupational Exposure Limits : No data available.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

• **Appearance** : Liquid.
• **Colour** : Light brown.

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SECTION 9. Physical and chemical properties (continued)

- **Odour** : Characteristic.
- **Odour threshold** : No data available.
- **pH** : No data available.
- **Melting point / Freezing point** : No data available.
- **Initial boiling point - boiling range** : No data available.
- **Flash point** : No data available.
- **Evaporation rate** : No data available.
- **Flammability** : Not combustible.
- **Explosion limits (lower - upper)** : Not explosive.
- **Vapour pressure** : No data available.
- **Vapour density** : No data available.
- **Density** : 1,15 g/ml
- **Solubility in water** : Reacts with water.
- **Partition coefficient : n-octanol / water** : No data available.
- **Auto-ignition temperature** : Not auto-ignitable.
- **Thermal decomposition** : No data available.
- **Viscosity** : 111 mPas (25°C)
- **Explosive Properties** : Not explosive.
- **Oxidising properties** : No data available.

9.2. Other information

No data available.

SECTION 10. Stability and reactivity

10.1. Reactivity

Physico-chemical stability : Reacts with water.

10.2. Chemical stability

Stable under normal conditions.

Exothermic reaction with substances which contain active hydrogen groups.

This product reacts slowly with water liberating : Carbon dioxide.

10.3. Possibility of hazardous reactions

Reacts slowly with water, generate gases (CO₂) and overpressure : rupture containers.

10.4. Conditions to avoid

Moisture.

High temperatures.

10.5. Incompatible materials

Alcohol.

Amines.

Bases.

Acids.

Water.

10.6. Hazardous decomposition products

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SECTION 10. Stability and reactivity (continued)

Thermal decomposition generates :
Carbon monoxide.
Carbon dioxide.
Nitrogen oxides.
HCN
Hydrocarbon.

SECTION 11. Toxicological information

11.1. Information on toxicological effects

Toxicity information : Irritating to eyes, respiratory system and skin.
Persons who are hypersensitive for MDI can react very intense to very small concentrations.

SECTION 12. Ecological information

12.1. Toxicity

See Heading 3.

12.2. Persistence - degradability

Substance reacts with water creating an inert and not biological degradable solid substance.

12.3. Bioaccumulative potential

Bioaccumulation is not probable.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

Ecological effects information : Ecotoxicity is low or very low.

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Disposal : Dispose in a safe manner in accordance with local/national regulations.

SECTION 14. Transport information

General information : Not classified.

SECTION 15. Regulatory information

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

Ensure all national/local regulations are observed.

15.2. Chemical Safety Assessment

No data available.

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SECTION 16. Other information

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

IC50: The half maximal Inhibitory Concentration

EC50: The half maximal Effective Concentration

Text of R-Phrases in § 3

: R20 - Harmful by inhalation.

R36 - Irritating to eyes.

R36/37/38 - Irritating to eyes, respiratory system and skin.

R36/38 - Irritating to eyes and skin.

R40 - Limited evidence of a carcinogenic effect.

R42/43 - May cause sensitization by inhalation and skin contact.

R48/20 - Harmful : danger of serious damage to health by prolonged exposure through inhalation.

Further information

: None.

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