

Trade name: EUCCINJECT PU GEL
Version: 1
Revision date: 24-08-2020

SECTION 1: Identification of the substance / mixture and of the company

1.1. Product identification

EUCCINJECT PU GEL

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

Use of the substance / mixture

The product is intended for professional use. Building products.

Uses advised against

No identified use.

1.3. Details of the supplier of the safety data sheet

EUCCHEM BV
ESPERANTOLAAN 13/7
B-3300 TIENEN
BELGIUM
Tel.: +32.16.81.11.52
E-Mail: office@eucochem.com

1.4. Emergency telephone number

+32 70 245 245

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) n° 1272/2008 (CLP)

Acute toxicity(inhalation)	Category 4	H332
Skin corrosion / irritation	Category 2	H315
Serious eye damage / eye irritation	Category 2	H319
Respiratory sensitization	Category 1	H334
Skin sensitization	Category 1	H317
Carcinogenicity	Category 2	H351
Specific target organ toxicity (single exposure)	Category 3	H335
Specific target organ toxicity (repeated exposure)	Category 2	H373
Long-term aquatic hazard	Category 3	H412

Other information

The explanation of the listed hazard warnings can be found in Section 16.

2.2. Label elements

Classification according to Regulation (EC) n° 1272/2008 (CLP)

Hazardous components for labelling

4,4'-Diphenylmethane-diisocyanate, 2,4-Toluylendiisocyanate, 2,6-Toluylendiisocyanate

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Signal word: Danger

Warning pictograms



Hazard warnings

H315	Causes skin irritation
H317	May cause allergic reactions to the skin.
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.
H373	may cause damage to organs through prolonged or repeated exposure.
H412	Toxic to aquatic life, with long lasting effects.

Safety instructions

P260	Do not breath dust/smoke/gas/mist/vapour/aerosol.
P280	Wear protective gloves / protective clothing / eye protection / face protection.
P284	Wear respiratory protection.
P304+P340	IF INHALED: Remove the person to fresh air and ensure that they can breathe freely.
P342+P311	If experiencing respiratory symptoms: Immediately call poison information centre / doctor.
P501	Dispose of content/container according to official regulations.

Specific labelling of certain mixtures

EUH204	Contains isocyanates. Can cause allergic reactions.
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People suffering from airway hypersensitivity (i.e. asthmatic or chronic bronchitis) should avoid handling this product. Symptoms related to the respiratory tract can occur several hours after overexposure. Dust, fumes and aerosols are the main risk of respiratory failure.

2.3. Other hazards

No information available.

SECTION 3: Composition / Information on ingredients

3.2. Mixture

Chemical characterization

Product contains isocyanate.

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Hazardous ingredients

CAS-N°	EC-N°	Designation / classification	Proportion
9016-87-9	618-498-9	4,4'-Diphenylmethane-diisocyanate	< 5%
		Acute Tox., 4, H332; Eye cor/irr, 2, H319; Skin cor/irr, 2, H315; Resp. Sens., 1, H334; Skin Sens., 1, H317; Carc., 2, H351; STOT RE, 2, H373; STOT SE, 3, H335	
584-84-9	209-544-5	2,4-Toluylendiisocyanate	< 1%
		Acute Tox., 2, H330; Eye cor/irr, 2, H319; Skin cor/irr, 2, H315; Resp. Sens., 1, H334; Skin Sens., 1, H317; Carc., 2, H351; STOT SE, 3, H335, Aquatic Chronic, 3, H412	
91-08-7	202-039-0	2,6-Toluylendiisocyanate	< 1%
		Acute Tox., 2, H330; Eye cor/irr, 2, H319; Skin cor/irr, 2, H315; Resp. Sens., 1, H334; Skin Sens., 1, H317; Carc., 2, H351; STOT SE, 3, H335, Aquatic Chronic, 3, H412	

The explanation of the listed hazard warnings can be found in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Take off dirty, soaked clothes immediately.

After inhalation

Remove casualty from the danger zone. Get medical advice / attention. If necessary, oxygen ventilation. Asthmatic symptoms may appear immediately or after a few hours. Extreme asthmatic reactions can be life threatening.

After skin contact

Remove contaminated, soaked clothes immediately and wash before reuse. Immediately wash the material off the skin with plenty of soap and water or take a shower. If irritation persists, get medical attention.

After eye contact

Immediately rinse with running water for 10 to 15 minutes with the eyelid wide open and consult an ophthalmologist. A suitable eye wash for emergencies should be readily available.

After ingestion

Do not induce vomiting. Rinse mouth with water. Never give anything by mouth to an unconscious person or if in case of cramps. Get medical advice / attention.

Self-protection of the first aider

First aiders: Pay attention to self-protection!

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

No information available.

4.3. Indication of any immediate medical attention or special treatment

The following symptoms may occur:

Sensitization possible through inhalation.
Sensitization possible through skin contact.
Irritant effect on respiratory organs.
Irritant effect on skin and eyes.
Difficult breathing.

Treatment

Symptomatic treatment.

SECTION 5: Fire fighting measures

5.1. Extinguishing agents

Suitable extinguishing media

Adapt extinguishing measures to the environment. Water mist or water spray. Dry chemical, carbon dioxide fire extinguisher, foam.

Unsuitable extinguishing media

Do not use a direct water jet.

5.2. Specific hazards arising from the substance or mixture

Hazardous combustion products

Carbon monoxide, nitrogen oxides (Nox), hydrogen cyanide, carbon dioxide, thick black smoke, isocyanates, acids containing isocyanates, other undefined substances

5.3. Advice for fire-fighters

Wear self-contained breathing apparatus and full protective suit.

Additional information

Cool endangered containers with water spray jet and remove them from the danger area. Suppress gases / vapours / mists with a water spray jet. Collect contaminated fire fighting water separately; it must not enter the sewage system. Fire residues and contaminated fire fighting water must be disposed of in accordance with official regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Non-emergency personnel

Bring people to safety.

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Emergency services

Block off the danger area and prevent access. Keep away from all sources of ignition. Inform management. Wear personal protection. Locate leaks. Provide adequate ventilation. Do not inhale gases / smoke / vapours / aerosols. Avoid contact with skin, eyes and clothes.

6.2. Environmental protection measures

Do not discharge into drains or rivers. Inform respective authorities when entering in waters or the sewage system.

6.3. Methods and materials for containment and cleaning up

Sprinkle with liquid-binding material (sand, Kieselgur, acid binder, universal binder). Repeat after 15 minutes. Then absorb the material and dispose of it in open containers. Process can generate heat. Clean the area well afterwards.

6.4. Reference to other sections

Information on safe handling, see section 7.

Information on personal protective equipment, see section 8.

Information on disposal, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice for safe handling

Do not inhale gases / smoke / vapours / aerosols. Provide adequate ventilation. If local extraction is not possible or inadequate, good ventilation of the work area should be ensured if possible. Use respiratory protection if the material is sprayed in a heated state, is used in a closed room or if the work place limit values are exceeded. Avoid skin and eye contact. Wear eye and skin protection. Wash thoroughly after handling.

Information about fire and explosion protection

Usual measures for preventive fire protection.

Further information on handling

Gaseous decomposition products can be very toxic and irritating.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and containers

Keep containers tightly closed. Keep/store only in the original containers. Do not open containers, if contamination is suspected.

Advice on common storage

keep away from drugs, food, drink and animal feed.

Further information on storage conditions

Store only in the original containers in a cool, well-ventilated place. Protect from heat and direct sunlight. Protect from humidity and water.

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Storage class according to TRGS 510: 10 (flammable solids that cannot be assigned to any of the aforementioned LGK)
Store between 18°C and 30°C.

7.3. Specific end uses

No information available.
GISCODE/Product-Code: PU 10

SECTION 8: Exposure controls / Personal protection

8.1. Control parameters

Occupational exposure limit values (TRGS 900)

CAS-N°	Designation	ppm	mg/m³	Peak limitation
9016-87-9	4,4'-Diphenylmethane-diisocyanate		0.05 E	1;=2=(I)
584-84-9	2,4-Toluylendiisocyanate	0.005	0.035	1;=4=(I)
91-08-7	2,6-Toluylendiisocyanate	0.005	0.035	1;=4=(I)

Preventative occupational medical examinations are to be offered.

8.2. Exposure controls in the workplace

Appropriate technical control equipment

Provide adequate ventilation. If local extraction is not possible or inadequate, good ventilation of the work area should be ensured if possible.

Protective and hygiene measures

Take off dirty, soaked clothes immediately. Wash hands and face after the job. Preventive skin protection with skin protection ointment. Do not eat, drink or smoke at work. Have an eye wash bottle or eye shower ready in the work room.

Eye / face protection

Tightly fitting protective goggles.

Skin / body protection

Avoid skin contact. Wear suitable protective clothing. Protective gloves should be worn: Suitable material: NBR (nitrile rubber), butyl rubber, neoprene or PVC (polyvinyl chloride).

Respiratory protection

Respiratory protection is required in case of inadequate ventilation. Gas filter device (DIN EN 141).

Limitation and supervision of environmental exposure

No information available.

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SECTION 9: Physical and chemical properties

9.1. Information on basis physical and chemical properties

Physical state: liquid
Colour: Slightly clear
Odour: Slightly musty
Density: 1,1 g/cm³ at 25 °C
Water solubility: Insoluble - reacts slowly with water to release carbon dioxide.
Flash point: > 100 °C

SECTION 10: Stability and reactivity

10.1. Reactivity

Contact with water and substances that react with isocyanates as well as temperatures above 177°C can lead to polymerization.

10.2. Chemical stability

No dangers to mention.

10.3. Possibility of hazardous reactions

Contact with water and substances that react with isocyanates as well as temperatures above 177°C can lead to polymerization.

10.4. Conditions to avoid

Protect from direct sunlight. Keep containers in a well-ventilated place.

10.5. Incompatible materials

Water, amines, strong bases, alcohol, copper alloys, aluminium.

10.6. Hazardous decomposition products

The following can be released in case of high heat and fire: Carbon monoxide, nitrogen oxides (Nox), hydrogen cyanide, carbon dioxide, thick black smoke, isocyanates, acids containing isocyanates, other undefined substances

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Information on MDI (polymer)

Acute toxicity

Oral LD50 - > 2.000 mg/kg (rat)

Inhalation LC50 - 490 mg/m³, vapour, 4 h (rat)

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Skin corrosion / irritation

Slight irritation (rabbit)

Specific target organ toxicity after repeated exposure

90 days inhalation NOAEL: 1 mg/m³, (rat, 6 h/day - 5 days/week), irritation of the lungs and nasal cavities.

2 years inhalation NOAEL: 0.2 mg/m³, (rat, 6 h/day - 5 days/week), irritation of the lungs and nasal cavities.

Germ cell mutagenicity

In vitro toxicity: bacterial gene mutation test: negative (Salmonella Typhimurium, metabolic activation: with/without)

Carcinogenicity

Rat, inhalation, 2 years, 6 h/day, 5 days/week: Contact with 6 mg/m³ led to the occurrence of lung tumours. This amount is well above the threshold.

Reproductive toxicity

Rat, inhalation, gestation days 6 - 15, 6 h/day, NOAEL: 12 mg/m³, NOAEL (maternal): 4 mg/m³: No effect at the doses tested. Toxicity in the foetus only related to maternal toxicity.

Information on 4,4'- Diphenylmethane-diisocyanate

Acute toxicity

dermal LD50 - > 10.000 mg/kg (rat)

Inhalation LC50 - 369 mg/m³, 4 h (rat) >2.240 mg/m³, aerosol, 1 h (rat)

Skin corrosion / irritation

Rabbit, Draize-test, slight irritation

Serious eye damage / eye irritation

Rabbit, Draize-test, slight irritation

Respiratory / skin sensitization

dermal Sensitizer (Guinea Pig, Maximisation Test (GPMT))

Inhalation: Sensitizer (Guinea Pig)

Specific target organ toxicity after repeated exposure

90 days inhalation NOAEL: 0.3 mg/m³, (rat, 18 h/day - 5 days/week), irritation of the lungs and nasal cavities.

Germ cell mutagenicity

In vitro toxicity: Ames: (Salmonella Typhimurium, metabolic activation: with/without): positive and negative results were reported. It is believed that the positive results can be attributed to the use of certain solvents that accelerate the separation of diisocyanates.

Genetic in vivo toxicity: Micronucleus test: negative (mouse)

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Carcinogenicity

Rat, inhalation, 2 years, 17 h/day, 5 days/week: negative.

SECTION 12: Environmental information

12.1. Ecotoxicity

Acute toxicity

Fish

LC0 >1,000 mg/l (Zebra fish (*Brachydanio rerio*), 96 h)

LC0 >3.000 mg/l (Killi fish (*Oryzias latipes*), 96 h)

Algae/aquatic plants

NOEC: 1.640 mg/l, growth (green algae (*Scenedesmus subspicatus*), 72 h)

Other organisms

EC50 >1.000 mg/l (water flea (*Daphnia magna*), 24 h)

EC50 > 100 mg/l, (activated sludge microorganisms, 3 h)

Addition information on MDI (polymer)

Acute toxicity

Fish

LC50 >500 mg/l (Zebra fish (*Brachydanio rerio*), 24 h)

Other organisms

EC50 >500 mg/l (water flea (*Daphnia magna*), 24 h)

12.2. Persistence and degradability

Biological degradability

0%, exposure time 28 days.

12.3. Bioaccumulative potential

Rainbow trout, exposure time 112 days, <1 BCF

12.4. Mobility in soil

No information available.

12.5. Results of the PBT and vPvB assessment

No information available.

12.6. Other harmful effects

No information available.

12.7. Other information

Do not let into ground water, water courses or sewage system.

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product disposal

Disposal according to official regulations. Combustion is preferred.

Packaging disposal

Completely emptied packaging can be recycled.

SECTION 14: Transport information

14.1. Land transport (ADR(RID))

Not hazardous according to these transportation regulations.

14.2. Inland waterway transport (ADN)

Not hazardous according to these transportation regulations.

14.3. Sea transport (IMDG)

Not hazardous according to these transportation regulations.

14.4. Air transport (IATA)

Not hazardous according to these transportation regulations.

SECTION 15: Regulatory information

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

EU Regulations

Information on the VOC directive 2004/42/EC: 4.5 %

National regulations

Water hazard class: 1 - slightly hazardous to water

This product contains traces of phenyl isocyanate (CAS no. 103-71-9) and monochlorobenzene (CAS no. 108-90-7) as foreign substances.

15.2. Safety assessment

The supplier has not carried out a chemical safety assessment.

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SECTION 16: Other information

Explanation of the H and EUH statements (number and full text)

H315	Causes skin irritation
H317	May cause allergic reactions to the skin.
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.
H373	may cause damage to organs through prolonged or repeated exposure
H412	Toxic to aquatic life, with long lasting effects
EUH204	Contains isocyanates. Can cause allergic reactions.

Additional information

The information in this safety data sheet corresponds to the best of our knowledge at the time of printing. The information is intended to provide guidelines for the safe handling of the product named in this safety data sheet during storage, processing, transport and disposal. The details are not transferable to other products. If the product is mixed or processed with other materials, the information in this safety data sheet cannot be transferred to the new material produced in this way, unless otherwise stated. The information is based on our current level of knowledge, but does not represent any assurance of product properties and does not establish a contractual legal relationship. It is the responsibility of the recipient of our products to observe existing laws and regulations.