

SAFETY DATA SHEET

PU FIX

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Compilation date: 08-05-2017

Revision No: 1

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: PU FIX

Product code: 3750

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: ProPart International B.V.

Molenakker 3

Reuver

5953 TW

The Netherlands

Tel: +31 (0) 77 476 2368

Fax: +31 (0) 77 476 2424

Email: info@propart-international.com

1.4. Emergency telephone number

Emergency tel: +31 (0) 77 476 2368 (08.30-17.00)

Section 2: Hazards identification

2.1. Classification of the substance or mixture

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

Most important adverse effects: Causes serious eye irritation. May cause respiratory irritation. Causes skin irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. May cause damage to organs through prolonged or repeated exposure. Suspected of causing cancer. Contains isocyanates. May produce an allergic reaction.

2.2. Label elements

Label elements:

Hazard statements: H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

H315: Causes skin irritation.

H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317: May cause an allergic skin reaction.

H373: May cause damage to organs through prolonged or repeated exposure.

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H351: Suspected of causing cancer.

EUH204: Contains isocyanates. May produce an allergic reaction.

Hazard pictograms: GHS07: Exclamation mark

GHS08: Health hazard



Signal words: Danger

Precautionary statements: P201: Obtain special instructions before use.

P260: Do not breathe dust/fumes/gas/mist/vapours/spray.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P284: [In case of inadequate ventilation] wear respiratory protection.

P302+352: IF ON SKIN: Wash with plenty of water/soap.

P304+340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+313: IF exposed or concerned: Get medical advice/attention.

2.3. Other hazards

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

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

DIPHENYLMETHANE DIISOCYANATE (ISOMERS AND HOMOLOGUES)

EINECS	CAS	PBT / WEL	CLP Classification	Percent
-	9016-87-9	-	Carc. 2: H351; Acute Tox. 4: H332; STOT RE 2: H373; Eye Irrit. 2: H319; STOT SE 3: H335; Skin Irrit. 2: H315; Resp. Sens. 1: H334; Skin Sens. 1: H317	17.500%

REACTION MASS OF 4,4'-METHYLENEDIPHENYL DIISOCYANATE AND O-(P-ISOCYANATOBENZYL)PHENYL ISOCYANATE - REACH registered number(s): 01-2119457015-45-XXXX

905-806-4	-	-	Acute Tox. 4: H332; Skin Irrit. 2: H315; Eye Irrit. 2: H319; Skin Sens. 1: H317; Resp. Sens. 1: H334; STOT SE 3: H335; Carc. 2: H351; STOT RE 2: H373	3.000%
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PROPYLENE CARBONATE

203-572-1	108-32-7	-	Eye Irrit. 2: H319	3.000%
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DIPHENYLMETHANE-4,4'-DI-ISOCYANATE

202-966-0	101-68-8	-	Carc. 2: H351; Acute Tox. 4: H332; STOT RE 2: H373; Eye Irrit. 2: H319; STOT SE 3: H335; Skin Irrit. 2: H315; Resp. Sens. 1: H334; Skin Sens. 1: H317	1.300%
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2,2-DIMORPHOLINODIETHYLETHER

229-194-7	6425-39-4	-	Eye Irrit. 2: H319; Skin Irrit. 2: H315	1.300%
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Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Carefully wipe off product residues with a soft dry cloth. Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water. If skin irritation or rash occurs: get medical advice/attention. Dab with polyethylene glycol 400.

Eye contact: Remove contact lenses. Bathe the eye with running water for 15 minutes. Consult a doctor. Keep the information sheet handy.

Ingestion: Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Consult a doctor. Never give anything by mouth to an unconscious person.

Inhalation: Transfer to hospital as soon as possible. Provide fresh air. If unconscious and breathing is OK, place in the recovery position. Consult a doctor. Give artificial respiration if not breathing and seek medical help immediately.

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.

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: Not applicable.

Section 5: Fire-fighting measures

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5.1. Extinguishing media

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers. Carbon dioxide. Dry chemical powder. Water spray. Alcohol resistant foam. Do not use water jet.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: In combustion emits toxic fumes. In combustion emits toxic fumes of carbon dioxide / carbon monoxide. In combustion emits toxic fumes of nitrogen oxides. In combustion emits toxic fumes of hydrogen cyanide. Danger of bursting when heated.

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. Collect extinguishing water to prevent it from draining into the sewer system.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Spills on hard surface can present a serious slipping / falling hazard. Ensure adequate ventilation. Avoid contact with clothing. Avoid contact with skin. Avoid inhalation.

6.2. Environmental precautions

Environmental precautions: When leakage occurs, dam quantities. Stop leak if this is possible without hazard. Do not allow to enter sewers/surface or ground water. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Clean up with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Leave a few days in a non-sealed container until no more reaction occurs. Keep moist. Do not shut down. CO₂ formation in closed packaging causes pressure.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS. Refer to section 13 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Ensure there is sufficient ventilation of the area. Not breathe vapors / dust. Avoid direct contact with the substance. People who are susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disorders, may not be employed in processes in which this mixture is used. Eating, drinking, smoking and storing food is prohibited in workspace.

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7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed. Keep away from direct sunlight. Not to be stored in passageways and stairways. Do not expose to temperatures exceeding 50°C. Store between the following temperatures: 15°C and 30°C. Keep dry.

Suitable packaging: Must only be kept in original packaging.

7.3. Specific end use(s)

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

Section 8: Exposure controls/personal protection

8.1. Control parameters

Hazardous ingredients:

DIPHENYLMETHANE DIISOCYANATE (ISOMERS AND HOMOLOGUES)

Workplace exposure limits:

Respirable dust

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

DIPHENYLMETHANE-4,4'-DI-ISOCYANATE

UK	0.02 mg/m ³	0.07 mg/m ³	-	-
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DNEL/PNEC Values

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Type	Exposure	Value	Population	Effect
-	CAS 9016-87-9	-	-	-
PNEC	Fresh water	1 mg/l	-	-
PNEC	Marine water	0,1 mg/l	-	-
PNEC	Soil (agricultural)	1 mg/kg	-	-
DNEL	Oral	20 mg/kg bw/d	Consumers	Local
DNEL	Inhalation	0,05 mg/m ³	Consumers	Local
DNEL	Dermal	17,2 mg/cm ²	Consumers	Local
-	CAS 101-68-8	-	-	-
PNEC	Fresh water	1 mg/l	-	-
PNEC	Marine water	0,1 mg/l	-	-
PNEC	Soil (agricultural)	1 mg/kg dw	-	-
DNEL	Dermal	25 mg/kg bw/d	Consumers	Systemic
DNEL	Inhalation	0,05 mg/m ³	Consumers	Systemic
DNEL	Inhalation (developmental tox)	20 mg/kg bw/d	Consumers	Systemic

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-	CAS 108-32-7	-	-	-
PNEC	Marine water	0,09 mg/l	-	-
PNEC	Soil (agricultural)	0,81 mg/l	-	-
PNEC	Fresh water	0,9 mg/l	-	-
DNEL	Oral	25 mg/kg	Consumers	Systemic
DNEL	Dermal	25 mg/kg	Consumers	Systemic
DNEL	Inhalation	10 mg/m3	Consumers	Local

8.2. Exposure controls

Engineering measures: Ensure there is exhaust ventilation of the area. The usual precautionary measures are to be adhered to when handling chemicals. Wash hands before breaks and at end of work. Keep away from foodstuffs, beverages and feed. Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Respiratory protection: Respiratory protection is not required under normal circumstances. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation. Where use is possible exposure via inhalation, respiratory protection is recommended. Filter A2 P2 (EN 14387).

Hand protection: Chemical protection gloves are suitable, which are tested according to EN 374. Nitrile gloves. Penetration time: >480 minutes, thickness 0,35mm. A maximum wearing time is recommended which corresponds to 50% of breakthrough time. Protective hand cream recommended. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. The selection of a suitable gloves does not only depend on the material, but also upon the 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 use. The exact breakthrough time of the glove material must be sought and enforced by the manufacturer of the safety gloves.

Eye protection: Wear airtight protective goggles (see standard EN 166). Ensure eye bath is to hand.

Skin protection: Protective clothing. Safety shoes EN ISO 20345. Protective clothing with long sleeves.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Liquid

Colour: According to product specification.

Odour: Characteristic odour

Solubility in water: Insoluble

9.2. Other information

Other information: Density: 1,51 g/cm3.

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Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Reactivity with water.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: Decomposition may occur on exposure to conditions or materials listed below.

10.4. Conditions to avoid

Conditions to avoid: Moisture. High-heat polymerization possible > 260 ° C.

10.5. Incompatible materials

Materials to avoid: Acids. Bases. Amines. Alcohols. Water.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes of carbon dioxide.

Section 11: Toxicological information

11.1. Information on toxicological effects

Hazardous ingredients:

DIPHENYLMETHANE DIISOCYANATE (ISOMERS AND HOMOLOGUES)

ORL	RAT	LD50	49	gm/kg
SKN	RBT	LD50	>9400	mg/kg

PROPYLENE CARBONATE

ORL	MUS	LD50	20700	mg/kg
ORL	RAT	LD50	29100	µl/kg

DIPHENYLMETHANE-4,4'-DI-ISOCYANATE

ORL	MUS	LD50	2200	mg/kg
ORL	RAT	LD50	9200	mg/kg

Relevant hazards for product:

Hazard	Route	Basis
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated
Respiratory/skin sensitisation	INH DRM	Hazardous: calculated

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Carcinogenicity	--	Hazardous: calculated
STOT-single exposure	INH	Hazardous: calculated
STOT-repeated exposure	-	Hazardous: calculated

Symptoms / routes of exposure

Skin contact: There may be mild irritation at the site of contact.

Eye contact: There may be irritation and redness.

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.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values:

Species	Test	Value	Units
CAS 9016-87-9	-	-	-
FISH	96H LC50	>1000	mg/l
DAPHNIA	24H EC50	>1000	mg/l
ALGAE	72H EC50	>1640	mg/l
CAS 108-32-7	-	-	-
FISH	96H LC50	>1000	mg/l
DAPHNIA	48H EC50	>1000	mg/l
ALGAE	72H EC50	>900	mg/l

12.2. Persistence and degradability

Persistence and degradability: No data available.

12.3. Bioaccumulative potential

Bioaccumulative potential: No data available.

12.4. Mobility in soil

Mobility: No data available.

12.5. Results of PBT and vPvB assessment

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

12.6. Other adverse effects

Section 13: Disposal considerations

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13.1. Waste treatment methods

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

Waste code number: 08 04 09

Disposal of packaging: Uncleaned packagings: recommendation: Disposal according to official regulations. Waste key number (recommended): 150110. Non contaminated packagings may be recycled Packaging not suitable for cleaning must be treated as the product.

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

Section 14: Transport information

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

Section 15: Regulatory information

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

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.

Section 16: Other information

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.

* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and s.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 <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

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>.

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.

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