MSDS PT Flex 97 B

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. PRODUCT IDENTIFIER

Product name: PT Flex 97 B

1.2. RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

Use of substance / mixture:
PC1: Adhesives, sealants.
PC9a: Coatings and paints, thinners, paint removers.
PC9b: Fillers, putties, plasters, modelling clay.
PC32: Polymer preparations and compounds.
PROC1: Use in closed process, no likelihood of exposure
PROC2: Use in closed, continuous process with occasional controlled exposure
PROC3: Use in closed batch process (synthesis or formulation)
PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises
PROC5: Mixing or blending in batch processes for formulation of preparations* and articles (multistage and/or significant contact)
PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities
PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)
PROC10: Roller application or brushing
PROC13: Treatment of articles by dipping and pouring
PROC19: Hand-mixing with intimate contact and only PPE available
ERC2: Formulation of preparations*
ERC3: Formulation in materials
ERC5: Industrial use resulting in inclusion into or onto a matrix
ERC6d: Industrial use of process regulators for polymerisation processes in production of resins, rubbers, polymers

1.3. DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Company name: Nedform BV
Hofdwarsweg 20
6161 DD Geleen The
Netherlands

Tel: +31 (0)464106260
Email: info@nedform.com

SECTION 2: HAZARDS IDENTIFICATION

2.1. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Classification under CLP:
Acute Tox. 4: H332; Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Asp. Tox. 1: H304; Carc. 2: H351; Eye Irrit. 2: H319; Resp. Sens. 1: H334; Skin Irrit. 2: H315; Skin Sens. 1: H317; STOT RE 2: H373; STOT SE 3: H335

Most important adverse effects:
May be fatal if swallowed and enters airways. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

2.2. LABEL ELEMENTS

Label elements:

Hazard statements:

H304: May be fatal if swallowed and enters airways.
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.
H373: May cause damage to organs through prolonged or repeated exposure.
H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects.

Hazard pictograms:

GHS07: Exclamation mark
GHS08: Health hazard
GHS09: Environmental

Signal words: Danger

Precautionary statements:

P260: Do not breathe dust/fumes/gas/mist/vapours/spray.
P301+310: IF SWALLOWED: Immediately call a doctor.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P302+352: IF ON SKIN: Wash with plenty of water/.
P304+340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P304+341: IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

2.3. OTHER HAZARDS

Other hazards: Danger of serious damage to health by prolonged exposure.

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

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. MIXTURES

Hazardous ingredients:

PREPOLYMER BASED ON AROMATIC POLYISOCYANATE

EINECS: -

CAS: 99784-49-3

PBT / WEL: -

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

Percent: 25-50%

DIISOPROPYLNAPHTHALENE ISOMERS - REACH registered number(s): 01-2119565150-48
EINECS: 254-052-6
CAS: 38640-62-9
PBT / WEL: -
CLP Classification: Asp. Tox. 1: H304; Aquatic Chronic 1: H410
Percent 1-25%

DIPHENYLMETHANE-2,4'-DI-ISOCYANATE - REACH registered number(s): 01-2119480143-45
EINECS: 227-534-9
CAS: 5873-54-1
PBT / WEL: -
CLP Classification: 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
Percent: 1-25%

DIPHENYLMETHANE-4,4'-DI-ISOCYANATE - REACH registered number(s): 01-2119457014-47
EINECS: 202-966-0
CAS: 101-68-8
PBT / WEL: -
CLP Classification: 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
Percent: 1-25%

SECTION 4: FIRST AID MEASURES

4.1. DESCRIPTION OF FIRST AID MEASURES

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Consult a doctor.
Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.
Ingestion: Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Consult a doctor.
Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

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 soreness and redness of the mouth and throat. Inhalation of fumes from the stomach may cause symptoms similar to direct inhalation.
Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. Drowsiness or mental confusion may occur.
Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

4.3. INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Immediate / special treatment: Not applicable.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. EXTINGUISHING MEDIA

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

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.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Personal precautions: Refer to section 8 of SDS for personal protection details. If outside do not approach from downwind. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid. If outside keep bystanders upwind and away from danger point. Evacuate the area immediately.

6.2. ENVIRONMENTAL PRECAUTIONS

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

6.3. METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Clean-up procedures: Absorb into dry earth or sand. Clean-up should be dealt with only by qualified personnel familiar with the specific substance.

6.4. REFERENCE TO OTHER SECTIONS

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

SECTION 7: HANDLING AND STORAGE

7.1. PRECAUTIONS FOR SAFE HANDLING

Handling requirements: Ensure there is sufficient ventilation of the area. Do not handle in a confined space. 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): No data available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. CONTROL PARAMETERS

Hazardous ingredients:
DIPHENYLMETHANE-2,4'-DI-ISOCYANATE
Workplace exposure limits:
State: UK
8 hour TWA: 0.02 mg/m3
15 min. STEL: 0.07 mg/m3
Respirable dust
8 hour TWA: -
15 min. STEL-

DIPHENYLMETHANE-4,4'-DI-ISOCYANATE
Workplace exposure limits:
State: UK
8 hour TWA: 0.02 mg/m3
15 min. STEL: 0.07 mg/m3
Respirable dust
8 hour TWA:-
15 min. STEL:-

DNEL/PNEC VALUES

Hazardous ingredients: DIPHENYLMETHANE-2,4'-DI-ISOCYANATE				
Type	Exposure	Value	Population	Effect
DNEL	Dermal	50 mg/kg bw/day	Workers	Systemic
DNEL	Inhalation	0.1 mg/m3 air	Workers	Systemic
DNEL	Dermal	28.7 mg/cm2	Workers	Local
DNEL	Inhalation	0.1 mg/m3 air	Workers	Local
DNEL	Inhalation (repeated dose)	0.05 mg/m3 air	Workers	Systemic
DNEL	Inhalation (repeated dose)	0.05 mg/m3 air	Workers	Local
DNEL	Dermal	25 mg/kg bw/da	General Population	Systemic
DNEL	Inhalation	0.05 mg/m3 air	General Population	Systemic
DNEL	Oral	20 mg/kg bw/day	General Population	Systemic
DNEL	Dermal	17.2 mg/cm2	General Population	Local
DNEL	Inhalation	0.05 mg/m3 air	General Population	Local
DNEL	Inhalation (repeated dose)	0.025 mg/m3 air	General Population	Systemic
DNEL	Inhalation (repeated dose)	0.025 mg/m3 air General Population	General Population	Local
PNEC	Fresh water	> 1mg/l	-	-
PNEC	Marine water	> 0.1 mg/l	-	-
PNEC	Soil (agricultural)	> 1 mg/kg dry weight	-	-
PNEC	Microorganisms in sewage treatment	> 1 mg/l	-	-
Hazardous ingredients: DIPHENYLMETHANE-4,4'-DI-ISOCYANATE				
Type	Exposure	Value	Population	Effect
DNEL	Inhalation	0.05 mg/m3	Workers	Systemic
DNEL	Inhalation	0.05 mg/m3	Workers	Local
PNEC	Fresh water	1 mg/l	-	-
PNEC	Marine water	0.1 mg/l	-	-
DNEL	Dermal	50 mg/kg bw/day	Workers	Systemic
DNEL	Inhalation	0.1 mg/m3 air	Workers	Systemic
DNEL	Dermal	28.7 mg/cm2	Workers	Local
DNEL	Inhalation	0.1 mg/m3 air	Workers	Local
DNEL	Inhalation (repeated dose)	0.05 mg/m3 air	Workers	Systemic
DNEL	Inhalation (repeated dose)	0.05 mg/m3 air	Workers	Local
DNEL	Dermal	25 mg/kg bw/day	General Population	Systemic
DNEL	Inhalation	0.05 mg/m3 air	General Population	Systemic
DNEL	Oral	20 mg/kg bw/day	General Population	Systemic
DNEL	Dermal	17.2 mg/cm2	General Population	Systemic
DNEL	Inhalation	0.05 mg/m3 air	General Population	Local
DNEL	Inhalation (repeated dose)	0.025 mg/m3 air	General Population	Systemic
DNEL	Inhalation (repeated dose)	0.025 mg/m3 air	General Population	Local
PNEC	Soil (agricultural)	> 1 mk dry weigt	-	-
PNEC	Microorganisms in sewage treatment	> 1 mg/l	-	-

8.2. EXPOSURE CONTROLS

Engineering measures:	Ensure there is sufficient ventilation of the area.
Respiratory protection:	Self-contained breathing apparatus must be available in case of emergency.
Hand protection:	Impermeable gloves.
Eye protection:	Safety glasses. Ensure eye bath is to hand.
Skin protection:	Impermeable protective clothing.
Environmental:	The floor of the storage room must be impermeable to prevent the escape of liquids.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

State: Liquid
Colour: Pale yellow
Odour: Characteristic odour
Evaporation rate: No data available.
Oxidising: No data available.
Solubility in water: Reacts with water.
Viscosity: 350 mPas (25°C)
Boiling point/range°C: No data available.
Flammability limits %: lower: No data available.
Flash point°C: No data available.
Autoflammability°C: No data available.
Relative density: 1.02 - 1.07
VOC g/l: No data available.
Melting point/range°C: No data available.
upper: No data available.
Part.coeff. n-octanol/water: No data available.
Vapour pressure: No data available.
pH: No data available.

9.2. OTHER INFORMATION

Other information: No data available.

SECTION 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.

10.4. CONDITIONS TO AVOID

Conditions to avoid: Heat. Hot surfaces. Flames.

10.5. INCOMPATIBLE MATERIALS

Materials to avoid: Strong oxidising agents. Strong acids.

10.6. HAZARDOUS DECOMPOSITION PRODUCTS

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

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. INFORMATION ON TOXICOLOGICAL EFFECTS

Hazardous ingredients:

PREPOLYMER BASED ON AROMATIC POLYISOCYANATE				
DERMAL	RBT	LD50	>9400	mg/kg
ORAL	RAT	LD50	>2001	mg/kg
DIISOPROPYLNAPHTHALENE ISOMERS				
-	RAT	NOAEL (6 mon)	170	mg/kg/d
DERMAL	RAT	LD50	> 4000	mg/kg
DUST/MIST	RAT	1H LC50	> 5.6	mg/l
ORAL	RAT	LD50	> 4000	mg/kg
DIPHENYLMETHANE-2,4'-DI-ISOCYANATE				
DERMAL	RBT	LD50	> 9400	mg/kg
ORAL	RAT	LD50	> 2001	mg/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	
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	
Aspiration hazard		-	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 soreness and redness of the mouth and throat. Inhalation of fumes from the stomach may cause symptoms similar to direct inhalation.
Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. Drowsiness or mental confusion may occur.
Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

SECTION 12: ECOLOGICAL INFORMATION

12.1. TOXICITY

Hazardous ingredients:

PREPOLYMER BASED ON AROMATIC POLYISOCYANATE			
BACTERIA (Activated sludge)	3H EC50	>100	mg/l

DIISOPROPYLNAPHTHALENE ISOMERS			
ALGAE	72H EC0	0.15	mg/l
DAPHNIA	21D NOEC	0.013	mg/l
DAPHNIA	48H EC0	0.16	mg/l
DAPHNIA	48H LL50	1.7	mg/l
FISH	96H LC0	0.5	mg/l
DIPHENYLMETHANE-2,4'-DI-ISOCYANATE			
BACTERIA (Activated Sludge)	3H EC50	> 100	mg/l
DIPHENYLMETHANE-4,4'-DI-ISOCYANATE			
BACTERIA (Activated Sludge)	3H EC50	> 100	mg/l

12.2. PERSISTENCE AND DEGRADABILITY
Persistence and degradability: Biodegradable.

12.3. BIOACCUMULATIVE POTENTIAL
Bioaccumulative potential: No bioaccumulation potential.

12.4. MOBILITY IN SOIL
Mobility: Readily absorbed into soil.

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
Other adverse effects: Negligible ecotoxicity.

SECTION 13: DISPOSAL CONSIDERATIONS
13.1. WASTE TREATMENT METHODS
Disposal operations: Transfer to a suitable container and arrange for collection by specialised 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.

SECTION 14: TRANSPORT INFORMATION
14.1. UN NUMBER
UN number: UN3082

14.2. UN PROPER SHIPPING NAME
Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Contains: DIISOPROPYLNAPHTHALENE ISOMERS; PREPOLYMER BASED ON AROMATIC POLYISOCYANATE).

14.3. TRANSPORT HAZARD CLASS(ES)
Transport class: 9

14.4. PACKING GROUP
Packing group: III

14.5. ENVIRONMENTAL HAZARDS
Environmentally hazardous: Yes
Marine pollutant: Yes

14.6. SPECIAL PRECAUTIONS FOR USER

Special precautions: No special precautions.
Tunnel code: E
Transport category: 3

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: H304: May be fatal if swallowed and enters airways.
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>.
H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects.

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.