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Reviewed on:	PU FIX PROFESSIONAL 3 - PRIMER	Version: 1.0

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

- 1.1. Product identifier: **PU FIX PROFESSIONAL 3 - R 34810P**
- 1.2. Relevant identified uses of the substance or mixture and uses advised against: Activating agent to polyurethanes.
- 1.3. Details of the supplier of the safety data sheet:
Identification of manufacturer/Supplier:
RETECH, s.r.o.
Vackova 1541/4
150 00 Praha-5 Stodůlky
Telephone/Fax: +420 327 596 128, +420 327 596 428
Information: info@retech.cz
- 1.4. Emergency telephone number:
RETECH Suchdol 212, Suchdol u Kutné Hory
Tel.+420 327 596 128 (7.30-16.00 hour)
Toxicology information number, Na bojišti 1, 128 08 PRAHA 2
Tel. +420 224 919 293, +420 224 915 402 (24 hours a day)

2. Section 2. Hazard identification:

The product is labeled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
The classification is in line with current EC lists, It is expanded, however, by information from technical literature and by information furnished by supplier companies.

2.1. Classification of the substance or mixture:

Classification according to Regulation (EC) No 1272/2008:

- | | |
|--------------|---|
| Flam. Liq. 2 | H225 Highly flammable liquid and vapour. |
| Skin Sens. 1 | H317 May cause an allergic skin reaction. |
| Eye Irrit. 2 | H319 Causes serious eye irritation. |
| STOT SE 3 | H336 May cause drowsiness or dizziness. |

EUH066 Repeated exposure may cause skin dryness or cracking.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC:

- | | |
|---------------------|--|
| F- Highly flammable | R11 Highly flammable |
| Xi-Irritant | R36 Irritating to eyes. |
| | R43 May cause sensitisation by skin contact. |

R66 Repeated exposure may cause skin dryness or cracking.

R67 Vaporous may cause drowsiness and dizziness.

2.2. Label elements:

Labelling according to Regulation (EC) No 1272/2008:

GHS02



DANGER

GHS07



WARNING

- H225 Highly flammable liquid and vapour.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
EUH066 Repeated exposure may cause skin dryness or cracking.
EUH204 Contains isocyanates. May produce an allergic reaction.

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Labelling according to Directive 1999/45/EC:



Highly flammable



Irritant

- R 11 Highly flammable.
- R 36 Irritating to eyes.
- R 43 May cause sensitisation by skin contact.
- R 66 Repeated exposure may cause skin dryness or cracking.
- R 67 Vapours may cause drowsiness and dizziness.

Special labeling of certain preparations:

Protect from sunlight and do not expose to temperatures exceeding 50°C. Keep away from sources of ignition.-
No smoking.

Contains isocyanates. See information supplied by the manufacturer.

- 2.3. Other hazards:
Results of PBT and vPvB assessment:
PBT: Not applicable
vPvB: Not applicable

3. Section 3. Composition/information on ingredients:

3.2. Mixtures:

Description: The active ingredient

Dangerous components:

CAS: 78-93-3 EINECS: 201-159-0 INDEX: 606-002-00-3	Butanone F R 11; Xi R36; R66; R67 GHS02 Flam. Liq. 2, H225; GHS07 Eye Irrit. 2, H319; STOT SE 3, H336; EUH066	25-<50%
CAS: 141-78-6 EINECS: 205-500-4 INDEX: 607-022-00-5	Ethylacetate F R 11; Xi R36; R66,R67 GHS02 Flam. Liq. 2, H225; GHS07 Eye Irrit. 2, H319; STOT SE 3 H336; EUH066	10-<25%
CAS: 63368-95-6 EINECS: 613-208-7 INDEX: NONE355	Polyisocyanate Aromatique-aliphatique (Benzene, 1,3-diisocyanatomethyl-, polymer with 1,6-diisocyanatohexane) Xi R43 GHS07 Skin Sens 1 H317	10-<25%
CAS: 1333-86-4 EINECS: 215-609-9 INDEX: NONE63	Carbon Black, Amorphous	2,5-<10%
CAS: 4420-74-0 EINECS: 224-588-5 INDEX: NONE35	Methoxy Silanes (3-trimethoxysilylpropane-1-thiol) Xn 21/22; N R51/53 GHS07 GHS07 Acute Tox. 4, H302; Acute Tox. 4, H312; GHS09 Aquatic Chronic 2, H411	≤ 2,5%

Additional information: For the wording of the listed risk phrases refer to section 16.

4. Section 4. First aid measures:

4.1. Description of first aid measures:

- After inhalation: Move the exposed person to fresh air at once. Keep the affected person warm and at rest. Get medical attention if any discomfort continues.
In case of unconsciousness place patient stable in side position for transportation.
- After skin contact: Instantly remove any clothing soiled by the product, immediately wash with water

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After eye contact:	and soap and rinse thoroughly. Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.
After swallowing:	Do not induce vomiting, rinse mouth with water and drink plenty of water. Seek for medical advice immediately. Do not give water if the person is unconscious.
Most important symptoms and effects, both acute and delayed:	No further relevant information available.
Indication of any immediate medical attention and special treatment needed:	No further relevant information available.

5. Section 5. Fire fighting measures:	
5.1. Extinguishing media:	
Suitable extinguishing agents:	Carbon dioxide (CO ₂), fire-extinguishing powder or alcohol resistant foam.
For safety reasons unsuitable extinguishing agents:	Water jet.
5.2. Special hazards arising from the substance or mixture:	
	A thick black smoke is produced in case of fire. Exposure to decomposition products may be hazardous to health. In the event of a fire, the carbon monoxide (CO) and carbon dioxide (CO ₂) may be formed.
Advice for firefighters:	Wear protecting clothes and oxygen-mask; fight the fire from a protected place.

6. Section 6. Accidental release measures:	
6.1. Personal precautions, protective equipment and emergency procedures:	
	Wear protective equipment see Section 8.2. Avoid inhaling the vapors. Avoid contact with skin and eyes. If a large quantity has been spilled, evacuate all personnel and only allow intervention by trained operators equipped with safety apparatus.
6.2. Environmental precautions:	
	Do not allow product to reach sewage system, surface or ground water. Inform respective authorities in case product reaches water or sewage system.
6.3. Methods and material for containment and cleaning up:	
	Absorb in inert material such as sand or absorbent granules. Clean preferably with a detergent, do not use solvents. Contaminated areas must be cleaned very quickly. Use drums to dispose of waste recovered in accordance with applicable regulations (see heading 13). A possible decontaminant for flammable products may be: (expressed by volume) water (45 parts), ethanol or isopropanol (50 parts), concentrated ammonia (0.880)(5 parts). For non-flammable products: sodium carbonate (5 parts), water (95 parts). These residues must be stored for disposal in accordance with applicable regulations (see 13).
6.4. Reference to other sections:	
	See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment See Section 13 for disposal information.

7. Section 7. Handling and storage:	
7.1. Information for safe handling:	Ensure good ventilation/exhaustion at the workplace. Vapours are heavier than air. The vapors can spread along the ground and form explosive mixtures. Avoid contact with skin and eyes.
Information about protection against explosions and fires:	Keep away from sources of ignition and electrostatic charges. Do not smoke. Keep away from sources of heat, sparks and naked flames. Do not use tools which may produce sparks. Prevent access unauthorized personnel. Do not drink and eat when using the product.
7.2. Conditions for safe handling, including any incompatibilities:	
Requirements to be met by storerooms and containers:	Store in tightly closed, labeled containers. Store away from ignition sources. Store in a cool, dry, well-ventilated area out of direct sunlight.

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Information about storage in one common storage facility: -
Further information about storage conditions: Packages which have been opened must be closed carefully in an upright position.

7.3. Specific end use(s): No further relevant information available.

8. Section 8. Exposure controls and personal protection:

8.1 Control parameters:
Components with limit values that require monitoring at the workplace:
European Union (2009/161/EU, 2006/15/EC, 2000/39/EC, 98/24/EC)

CAS	VME-mg/m3:	VME-ppm:	VLE-mg/m3:	VLE-ppm:	Notes:
78-93-3	600	200	900	300	-

ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010):

CAS	TWA:	STEL:	Ceiling:	Definition:	Criteria:
78-93-3	200 ppm	300 ppm	-	-	-
141-78-6	400 ppm	-	-	-	-
1333-86-4	3.5 mg/m3	-	-	-	-

Germany - AGW (BAuA - TRGS 900, 21/06/2010):

CAS	VME:	VME:	Excess	Notes
78-93-3	200 ml/m3	600 mg/m3	1(I)	DFG, H, Y
141-78-6	400 ml/m3	1500 mg/m3	2(I)	DFG, Y

France (INRS - ED984:2007 and French Order of 30/06/2004):

CAS	VME-ppm:	VME-mg/m3:	VLE-ppm:	VLE-mg/m3:	Notes:	TMP No.:
78-93-3	200	600	300	900	*	84
141-78-6	400	1400	-	-	-	84
1333-86-4	-	3.5	-	-	-	-

Additional information: The lists that were valid during the compilation were as basis.

8.2 Exposure controls:
Eye protection: Tightly sealed safety glasses.
Breathing equipment: Use suitable respiratory protective device in case of insufficient ventilation. In case of brief exposure or low pollution use respiratory filter device-filter AX/P2. In case of intensive or longer exposure use self-contained respiratory protective device.
Protection of hands: Solvent resistant gloves. Selection of glove material on consideration of the penetration times, rates of diffusion and the degradation
Material of gloves: Butyl rubber, PVA
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

8.3 Protection of skin: Protective working clothing.
General protective and hygienic measures: Never eat, drink or smoke during use. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands during breaks and at the end of the work. Do not inhale gases/fumes/aerosols.

9. Section 9. Physical and chemical properties:

9.1. Information on basic physical and chemical properties:
Appearance:
form: Liquid
colour: Black

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preparation beyond the exposure limits may product harmful effects to health such as:
Irritation of mucous membranes and respiratory system, kidneys, liver and central nervous system. Symptoms may include headaches, numbness, dizziness, fatigue, muscular asthenia and, in extreme cases loss of consciousness.
Repeated exposure may use respiratory problems.

12. Section 12. Ecological information:

- This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.
- 12.1. Toxicity: No further relevant information available.
- 12.2. Persistence and degradability: No further relevant information available.
- 12.3. Bioaccumulative potential: No further relevant information available.
- 12.4. Mobility in soil: No further relevant information available.
- 12.5. Results of PBT and vPvB assessment:
PBT: Not applicable
vPvB: Not applicable
- 12.6. Other adverse effects: No further relevant information available.

13. Section 13. Disposal considerations:

- 13.1 Waste treatment methods:
Product: Must not be disposed together with household garbage. Do not allow product to reach sewage system.
Dispose in safe manner in accordance with local/national regulation.
- Uncleaned packagings: Disposal must be made according to official regulations.

14. Section 14. Transport information:

- 14.1. Land transport:
ADR/RID-GGVSE class: 3 F1
Number UN: 1263
Danger code (Kemler): 33
Packaging group: II
Description of goods: Paint
Remarks: "Limited quantities" 5L
Transport category: 2
Tunnel restriction code: D/E
- 14.2. Maritime transport:
IMDG-class: 3
Number UN: 1263
Packaging group: II
EMS-group: F-E,S-E
Proper shipping name: Paint
- 14.3. Air transport:
ICAO / IATA -class: 3
UN/ID number: 1263
Packaging group: II
Proper shipping name: Paint
UN "Model Regulation": UN1263, Paint
Special precautions for users - Flammable liquids.
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable

15. Section 15. Regulatory information:

- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture:
Labelling according to law line:
The product has been classified and marked in according with EU Directives/Ordinance on Hazardous Materials.

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Danger of determining components and mark to labelling:
Protect from sunlight and do not expose to temperatures exceeding 50°C.
Contains isocyanates. See information supplied by the manufacturer.
Contains: 63368-95-6 Polyisocyanate Aromatique-aliphatique. May produce an allergic reaction.

Labelling hazardousness:



Highly flammable



Irritant

Numbers and word reading associated hazard R-sentences :

- R 11 Highly flammable.
- R 36 Irritating to eyes.
- R 43 May cause sensitisation by skin contact.
- R 66 Repeated exposure may cause skin dryness or cracking.
- R 67 Vapours may cause drowsiness and dizziness.

Numbers and word reading associated security S-sentences:

- S 9 Keep container in a well-ventilated place.
- S 16 Keep away from sources of ignition – No smoking.
- S 24/25 Avoid contact with skin and eyes.
- S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S 37 Wear suitable gloves.
- S 46 If swallowed, seek medical advice immediately and show this container or label.
- S 60 This material and its container must be disposed of as hazardous waste.

Labelling (up to 125 ml):

Labelling hazardousness: F, Xi

R-sentences: not specified

S-sentences: not specified

Used legislation:

- European Regulation (EC) No 1907/2006 – REACH.
- Commission Regulation (EU) No 453/2010.
- European Regulation No 67/548EEC and 1999/45/EC.
- Commission Regulation (EC) No 1272/2006 – CLP.
- Commission Regulation (EC) No 790/2009.
- Regulation (EC) No 648/2004 (detergents).

15.2. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16. Section 16. Other information:

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relative R+H phrases:

- R 11 Highly flammable.
- R 21/22 Harmful in contact with skin and if swallowed.
- R 36 Irritating to eyes.
- R 43 May cause sensitisation by skin contact.
- R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R 66 Repeated exposure may cause skin dryness or cracking.
- R 67 Vapours may cause drowsiness and dizziness.
- H225 Highly flammable liquid and vapour.

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H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.
EUH066 Repeated exposure may cause skin dryness or cracking.

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

MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)

WEL- Workplace exposure limits

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

***Compared to the last version the data has been changed.**