

Date of issue: 24.10.2011	Trade name:	Page: 1/6
Reviewed on:	PU FIX PROFESSIONAL 3	Version: 1.0

<p>1. Section 1. Identification of the substance/mixture and of the company/undertaking:</p> <p>1.1. Product identifier : PU FIX PROFESSIONAL 3 - R 34810C/12</p> <p>1.2. Relevant identified uses of the substance or Adhesive mixture and uses advised against:</p> <p>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</p> <p>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)</p>	<p>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.</p> <p>2.1. Classification of the substance or mixture: Classification according to Regulation (EC) No 1272/2008: Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.</p> <p>Classification according to Directive 67/548/EEC or Directive 1999/45/EC: R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</p> <p>2.2. Label elements: Labelling according to Regulation (EC) No 1272/2008: H412 Harmful to aquatic life with long lasting effects.</p> <p>Labelling according to Directive 1999/45/EC: R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</p> <p>Special labeling of certain preparations: “Contains isocyanates. See information supplied by manufacturer.”</p> <p>2.3. Other hazards: Results of PBT and vPvB assessment: PBT: Not applicable vPvB: Not applicable</p>						
<p>3. Section 3. Composition/information on ingredients:</p> <p>3.2. Mixtures: Description: The active ingredient.</p> <p>Dangerous components:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">CAS: 1333-86-4 EINECS: 215-609-9 INDEX: NONE63</td> <td style="width: 50%;">Carbon Black, Amorphous</td> <td style="width: 20%;">10-<25%</td> </tr> <tr> <td>CAS: 1317-65-3 EINECS: 215-279-6</td> <td>Carbonate de Calcium (limestone)</td> <td>2,5-<10%</td> </tr> </table>	CAS: 1333-86-4 EINECS: 215-609-9 INDEX: NONE63	Carbon Black, Amorphous	10-<25%	CAS: 1317-65-3 EINECS: 215-279-6	Carbonate de Calcium (limestone)	2,5-<10%	
CAS: 1333-86-4 EINECS: 215-609-9 INDEX: NONE63	Carbon Black, Amorphous	10-<25%					
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Date of issue: 24.10.2011	Trade name:	Page: 2/6
Reviewed on:	PU FIX PROFESSIONAL 3	Version: 1.0

INDEX: NONE70		
CAS: 112-88-9 EINECS: 204-012-9 INDEX: NONE22 Reg.nr.: 01-2119474213-44-0001	Linear Alpha Olefin (octadec-1-ene) Xn R65, R66 GHS08 Asp. Tox. 1, H304, EUH066	2,5-<10%
CAS: 101-02-0 EINECS: 202-908-4 INDEX: 015-105-00-7	Triphenyl Phosphite Xi R36/38; N R50/53 GHS07 Eye Irrit. 2, H319; Skin Irrit2, H315; GHS09 Aquatic Acute 1, H400; Aquatic Chronic 1, H410;	≤ 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: Remove to fresh air and keep rest. If symptoms persist, call doctor.
- After skin contact: Remove soaked clothing; Immediately wash with water and soap and rinse thoroughly. If irritation persists, obtain medical attention.
- After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.
- After swallowing: Do not induce vomiting. Rinse mouth with water. Seek medical attention immediately and show the label.
- 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 (CO₂), fire-extinguishing powder or alcohol resistant foam.
For safety reasons unsuitable extinguishing agents: Water
- 5.2. Special hazards arising from the substance or mixture:
A thick black smoke is produced is produced in case of fire. Exposure to decomposition products may be hazardous to health.
- 5.3. Advice for firefighters: Wear protecting clothes and autonomous insulating breathing apparatus; 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. Keep unprotected persons away. Ensure ventilation.
- 6.2. Environmental precautions:
Do not allow to enter drainage system, surface or ground water.
Inform respective authorities in case of seepage into water course 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 section 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 section 13).
- 6.4. Reference to other sections:
See Section 7 for information od 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.

Date of issue: 24.10.2011	Trade name:	Page: 3/6
Reviewed on:	PU FIX PROFESSIONAL 3	Version: 1.0

	Use the personal protective equipment from the section 8.2. Follow the instructions on the sticker and guides for the safe usage in the industry.
7.2. Information about protection against explosions and fires: -	
Conditions for safe handling, including any incompatibilities:	
Requirements to be met by storerooms and containers:	Store in a dry place at and keep the product in tightly sealed containers. Store in closed packaging between 5°C and 25°C.
Information about storage in one common storage facility:	Information not available.
Further information about storage conditions:	Information not available.
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:						
ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010):						
CAS	TWA:	STEL:	Ceiling:	Definition:	Criterion:	
1333-86-4	3.5 mg/m ³	-	-	-	-	
France (INRS - ED984:2007 and French Order of 30/06/2004):						
CAS	VME-ppm	VME-mg/m ³	VLE-ppm	VLE- mg/m ³	Notes:	TMP No.:
1333-86-4	-	3.5	-	-	-	-
1317-65-3	-	10	-	-	-	-
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:	Ensure adequate ventilation.					
Protection of hands:	PVC or rubber hand gloves.					
Protection of skin:	Protective clothing					
8.3. General protective and hygienic measures:	Keep away from foodstuffs, beverages and feed. The usual precautionary measures should be adhered to general rules for handling chemicals. Wash hand after each work period and before eating.					

9. Section 9. Physical and chemical properties:	
9.1. Information on basic physical and chemical properties:	
Appearance:	
form:	Paste
colour:	Black
Odour threshold:	Characteristic
Value pH:	Not determined
Melting point/freezing point:	Not determined
Melting point/freezing point:	Not determined
Initial boiling point/boiling range:	Not determined
Flash point:	> 60°C
Evaporation rate:	Not determined
Flammability (solid,gas):	Not applicable
Ignition temperature:	Not determined
Explosive properties:	Product is not explosive.
Upper/lower flammability or explosive limits:	
Explosion limits: lower (% Vol):	Not available
upper (% Vol):	Not available
Vapour pressure (at 20°C):	Not determined

Date of issue: 24.10.2011	Trade name:	Page: 4/6
Reviewed on:	PU FIX PROFESSIONAL 3	Version: 1.0

Vapour density (at 20 °C):	> 1
Relative density:	Not determined
Solubility in/miscibility with - water	Insoluble
Partition coefficient (n-octanol/water):	Not determined
Auto-ignition temperature:	Not determined
Decomposition temperature:	Not determined
Viscosity:	Not determined
Oxidative properties:	Not determined
9.2. Other information:	
VOC	0%

10. Section 10. Stability and reactivity:	
10.1. Reactivity:	Keep away from oxidising agents and strongly acidic or basic materials to avoid exothermic reactions.
10.2. Chemical stability:	This mixture is stable under the recommended handling and storage conditions in section 7.
10.3. Possibility of hazardous reactions:	When exposed to high temperatures, the mixture can release hazardous decomposition products, such as carbon monoxide and dioxide, fumes and nitrogen oxide. The mixture can also release hydrogen cyanide, amines and alcohols.
10.4. Conditions to avoid:	Avoid humidity. Protect from moisture. Reaction with water can cause an exothermic reaction.
10.5. Incompatible materials:	Keep away from water.
10.6. Hazardous products of decomposition:	The thermal decomposition may release/form Carbon monoxide (CO). Carbon dioxide (CO ₂).

11. Section 11. Toxicological information:	
11.1. Information on toxicological effects:	
Acute toxicity:	None
Irritation: on the skin:	No irritating effect.
on the eye:	No irritating effect.
Corrosivity:	Not corrosive.
Sensitization:	Respiratory or skin sensitisation: Contains isocyanates. May cause an allergic reaction.
Repeated dose toxicity:	No further relevant information available.
Carcinogenicity:	No further relevant information available.
Mutagenicity:	No further relevant information available.
Toxicity for reproduction:	No further relevant information available.
Other information:	No data is available regarding the preparation itself. Based on the properties of isocyanates and taking into account toxicological data for similar preparations, this preparation may cause irritation and/or sensitisation of the respiratory system. It may also lead to asthma, respiratory problems and angina. Those susceptible may display asthmatic symptoms when exposed to atmospheres with an isocyanate concentration well below those of the VLE: exposure limits. Repeated exposure may cause permanent respiratory problems. CAS 101-68-8: IARC group 3 (the agent is not classifiable as to its carcinogenicity to humans).

12. Section 12. Ecological information:	
	Harmful to aquatic life with long lasting effects. The product must not be allowed to run into drains or waterways.
12.1. Ecotoxicological effects:	No further relevant information available.
12.2. Persistence and degradability:	No further relevant information available.

Date of issue: 24.10.2011	Trade name:	Page: 5/6
Reviewed on:	PU FIX PROFESSIONAL 3	Version: 1.0

- 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: The product contains substances which contribute to global warming (greenhouse effect)

13. Section 13. Disposal considerations:

- 13.1 Waste treatment methods:
 Product: Must not be disposed of together with household garbage.
 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: Not classified
 ADR/RID-GGVS/E class: -
 14.2. Maritime transport: Not classified
 IMDG-class: -
 14.3. Air transport: Not classified
 ICAO / IATA -class: -
 UN "Model Regulation": Not applicable
 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 labeled in accordance with EC Directives / relevant national laws.
 Danger of determining components and mark to labelling:
 Contains isocyanates. See information supplied by the manufactureres.

 Labelling hazardousness:
 Product is not classified as a hazardous.

 Numbers and word reading associated hazard R-sentences :
 R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

 Numbers and word reading associated security S-sentences:
 S 60 This material and its container must be disposed of as hazardous waste.

 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 36/38 Irritating to eyes and skin.

Date of issue: 24.10.2011	Trade name:	Page: 6/6
Reviewed on:	PU FIX PROFESSIONAL 3	Version: 1.0

R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 65 Harmful: may cause lung damage if swallowed.

R 66 Repeated exposure may cause skin dryness or cracking.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H400 Very toxic to aquatic life.

H410 Very 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.**