



Safety Data Sheet

according to 1907/2006/EC, Article 31

Date: 01.12.2011

Replaces: 11.11.2010

Ref: 0099.8.DB/DR

1 Identification of the substance/preparation and of the company/undertaking

· **Product details**

· **Trade name:** ZWALUW MONTAGEFIX-PU

· **Article number:** PU 59/2

· **Application of the substance / the preparation** Adhesives

· **Manufacturer/Supplier:**

SIROFLEX LIMITED
Dodworth Business Park
Dodworth
Barnsley
South Yorkshire
S75 3SP
Tel: 01226 771600
Fax: 01226 771601

· **Further information obtainable from:**

www.siroflex.co.uk
info@siroflex.co.uk

· **Information in case of emergency:**

info@denbraven.nl
Tel.: +31 (0)162-491000

2 Hazards identification

· **Hazard description:**



Xn Harmful

· **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

R 36/37/38 Irritating to eyes, respiratory system and skin.

R 40 Limited evidence of a carcinogenic effect.

R 42/43 May cause sensitisation by inhalation and skin contact.

R 48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

Contains isocyanates. See information supplied by the manufacturer

· **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

· **GHS label elements**



Danger

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

H360 - May damage fertility or the unborn child.

H351 - Suspected of causing cancer.

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



Warning

H335+H336 - May cause respiratory irritation. May cause drowsiness or dizziness.

Warning

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

H317 - May cause an allergic skin reaction.

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Contains isocyanates. May produce an allergic reaction.

Prevention:

- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P285 In case of inadequate ventilation wear respiratory protection.

Response:

- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P321 Specific treatment (see on this label).

Storage:

- P405 Store locked up.

Disposal:

- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

3 Composition/information on ingredients

Chemical characterization

- Description:** Mixture of substances listed below with nonhazardous additions.

Dangerous components:

CAS: 26447-40-5 EINECS: 247-714-0	methylenediphenyl diisocyanate Carc. Cat. 3; ☒ Xn, ☒ Xi; R 20-36/37/38-40-42/43-48/20 Danger: ☠ 3.4.R/1, 3.6/2, 3.9/2 Warning: ⚠ 3.1.I/4, 3.8/3; 3.2/2, 3.3/2, 3.4.S/1	10-30%
CAS: 872-50-4 EINECS: 212-828-1	N-methyl-2-pyrrolidone Repr. Cat. 2; ☒ T, ☒ Xi; R 61-36/37/38 Danger: ☠ 3.7/1B Warning: ⚠ 3.2/2, 3.3/2, 3.8/3	1-5%
CAS: 77-58-7 EINECS: 201-039-8	dibutyltin dilaurate Muta. Cat. 3, Repr. Cat. 2; ☒ T, ☒ N; R 60-61-48/25-68-50/53 Danger: ☠ 3.7/1B, 3.9/1, 3.5/2 Warning: ⚠ 4.1.A/1, 4.1.C/1	<0.25%

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

4 First aid measures

General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

After skin contact: Immediately wash with water and soap and rinse thoroughly.**After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing: If symptoms persist consult doctor.

5 Fire-fighting measures

Suitable extinguishing agents:

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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- **Protective equipment:** Mouth respiratory protective device.

6 Accidental release measures

- **Person-related safety precautions:** Ensure adequate ventilation
- **Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**
 - Pick up mechanically.
 - Dispose contaminated material as waste according to item 13.
 - Ensure adequate ventilation.

7 Handling and storage

- **Handling:**
- **Information for safe handling:**
 - Ensure good ventilation/exhaustion at the workplace.
 - Prevent formation of aerosols.
- **Information about fire - and explosion protection:** No special measures required.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

- **Ingredients with limit values that require monitoring at the workplace:**

872-50-4 N-methyl-2-pyrrolidone (1-5%)

WEL	Short-term value: 309 mg/m ³ , 75 ppm
	Long-term value: 103 mg/m ³ , 25 ppm
	Sk

77-58-7 dibutyltin dilaurate (≤1.0%)

WEL	Short-term value: 0.2 mg/m ³
	Long-term value: 0.1 mg/m ³
	as Sn; Sk

- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:**
 - Keep away from foodstuffs, beverages and feed.
 - Immediately remove all soiled and contaminated clothing
 - Wash hands before breaks and at the end of work.
 - Avoid contact with the eyes and skin.
- **Respiratory protection:**
 - In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
- **Protection of hands:**



Protective gloves

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The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of 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 the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Tightly sealed goggles

9 Physical and chemical properties

· **General Information**

Form:	Pasty
Colour:	Beige
Odour:	Characteristic

· **Change in condition**

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: Undetermined.

· **Flash point:** > 55°C

· **Ignition temperature:** 400°C

· **Self-igniting:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Explosion limits:**

Lower: Undetermined.

Upper: Undetermined.

· **Vapour pressure:** Undetermined.

· **Density at 20°C:** 1.46 g/cm³

· **Solubility in / Miscibility with water:** Not miscible or difficult to mix.

· **pH-value:** Undetermined.

· **Solvent content:**

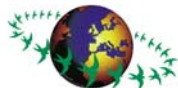
VOC (EC) 4.90 %

VOC (EC) 71.5 g/l

10 Stability and reactivity

· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

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- **Materials to be avoided:**
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous decomposition products:**
Isocyanate
Carbon monoxide and carbon dioxide
Nitrogen oxides
Hydrogen cyanide (prussic acid)

11 Toxicological information

- **Acute toxicity:**

- **LD/LC50 values relevant for classification:**

872-50-4 N-methyl-2-pyrrolidone

Oral	LD50	3914 mg/kg (rat)
Dermal	LD50	8000 mg/kg (rabbit)

77-58-7 dibutyltin dilaurate

Oral	LD50	175 mg/kg (rat)
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- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Sensitization:**
Sensitization possible through inhalation.
Sensitization possible through skin contact.
- **Additional toxicological information:**
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
Harmful
Irritant
- **Sensitisation** May cause sensitisation by inhalation and skin contact.

12 Ecological information

- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 Disposal considerations

- **Product:**
- **Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- **European waste catalogue**

08 04 09*	waste adhesives and sealants containing organic solvents or other dangerous substances
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- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

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14 Transport information

- Land transport ADR/RID (cross-border)

- ADR/RID class: -

- Maritime transport IMDG:

- IMDG Class: -

- Air transport ICAO-TI and IATA-DGR:

- ICAO/IATA Class: -

- UN "Model Regulation": -

15 Regulatory information

- Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

- Code letter and hazard designation of product:



Xn Harmful

- Hazard-determining components of labelling:

methylenediphenyl diisocyanate

- Risk phrases:

36/37/38 Irritating to eyes, respiratory system and skin.

40 Limited evidence of a carcinogenic effect.

42/43 May cause sensitisation by inhalation and skin contact.

48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

- Safety phrases:

2 Keep out of the reach of children.

23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).

36/37 Wear suitable protective clothing and gloves.

45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

46 If swallowed, seek medical advice immediately and show this container or label.

63 In case of accident by inhalation: remove casualty to fresh air and keep at rest.

- Special labelling of certain preparations:

Contains isocyanates. See information supplied by the manufacturer

- National regulations:

- Other regulations, limitations and prohibitive regulations

DECISION No 1348/2008/EC:

Shall not be placed on the market after 27 December 2010 for supply to the general public, unless the packaging:

(a) contains protective gloves which comply with the requirements of Council Directive 89/686/EEC of 21 December 1989 on the approximation of the laws of the Member States relating to personal protective equipment.

(b) is marked visibly, legibly and indelibly as follows, and without prejudice to other Community legislation concerning the classification, packaging and labelling of dangerous substances and preparations:

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- “- Persons already sensitised to diisocyanates may develop allergic reactions when using this product.
- Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product.
- This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.”

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant R-phrases

- 20 Harmful by inhalation.
- 36/37/38 Irritating to eyes, respiratory system and skin.
- 40 Limited evidence of a carcinogenic effect.
- 42/43 May cause sensitisation by inhalation and skin contact.
- 48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
- 48/25 Toxic: danger of serious damage to health by prolonged exposure if swallowed.
- 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 60 May impair fertility.
- 61 May cause harm to the unborn child.
- 68 Possible risk of irreversible effects.

· **Department issuing MSDS:** Product safety department.

· **Contact:** Mr. C.J.A. Timmermans

· 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
- VOC: Volatile Organic Compounds (USA, EU)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent

· *** Data compared to the previous version altered.**