



according to 1907/2006/EC

VELOSIT PU 412

Date 05.10.2016 Revision date: N/A Version: EN/1 7 Pages

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### **Product identifier** 1.1.

Product form : Mixture

: VELOSIT® PU 412 Product name

Product code : 0412020

#### Relevant identified uses of the substance or mixture and uses advised against 1.2.

### 1.2.1. Relevant identified uses

Industrial/Professional use spec : Industrial

For professional use only

: Single Component, POLYURETHANE primer & sealer for construction & building industry Use of the substance/mixture

### Uses advised against 1.2.2.

No additional information available

## Details of the supplier of the safety data sheet

VELOSIT GmbH & Co. KG Industriepark 7,

D-32805 Horn-Bad Meinberg,

Germany

Email: info@velosit.de, www.velosit.de Phone: +49(0)5233 / 951 730-0 (Mo. to Fr.: 8:00 - 16:00)

## **Emergency telephone number**

Emergency number +49 5233 / 951 7300

## SECTION 2: Hazards identification

## Classification of the substance or mixture

## Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable liquids, Category 3 H226 Skin corrosion/irritation, Category 2 H315 Serious eye damage/eye irritation, Category 2 H319 Sensitisation — Skin, Category 1 H317 Carcinogenicity, Category 2 H351 Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation Specific target organ toxicity — Repeated exposure, Category 2 H335 H373

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

## Label elements

Hazard pictograms (CLP)

Precautionary statements (CLP)

## Labelling according to Regulation (EC) No. 1272/2008 [CLP] Extra labelling





Signal word (CLP) : Warning

Hazardous ingredients : 4,4'-methylenediphenyl diisocyanate, diphenylmethane-4,4'-diisocyanate; xylene

Hazard statements (CLP) H226 - Flammable liquid and vapour

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction H319 - Causes serious eye irritation H335 - May cause respiratory irritation H351 - Suspected of causing cancer

H373 - May cause damage to organs through prolonged or repeated exposure P101 - If medical advice is needed, have product container or label at hand

P102 - Keep out of reach of children

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking

P233 - Keep container tightly closed P260 - Do not breathe vapours

P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective gloves, face protection, eye protection

P501 - Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation

**FUH-statements** : EUH204 - Contains isocyanates. May produce an allergic reaction

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## 2.3. Other hazards

No additional information available

## **SECTION 3: Composition/information on ingredients**

## 3.1. Substance

Not applicable

## 3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
xylene (Note C)	(CAS No) 1330-20-7 (EC no) 215-535-7 (EC index no) 601-022-00-9	50 - 80	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304
4,4'-methylenediphenyl diisocyanate, diphenylmethane-4,4'-diisocyanate (Note C)(Note 2)	(CAS No) 101-68-8 (EC no) 202-966-0 (EC index no) 615-005-00-9	< 5	Carc. 2, H351 Acute Tox. 4 (Inhalation), 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

## Specific concentration limits:

Name	Product identifier	Specific concentration limits
4,4'-methylenediphenyl diisocyanate, diphenylmethane-4,4'-	(CAS No) 101-68-8	(C >= 0,1) STOT SE 3, H335
diisocyanate	(EC no) 202-966-0	(C >= 5) Eye Irrit. 2, H319
	(EC index no) 615-005-00-9	(C >= 5) Skin Irrit. 2, H315
		(C >= 5) Resp. Sens. 1, H334

Note 2: The concentration of isocyanate stated is the percentage by weight of the free monomer calculated with reference to the total weight of the mixture

Note C: Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

Full text of H-statements: see section 16

## **SECTION 4: First aid measures**

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical

advice (show the label where possible). Suspected of causing cancer.

First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a

POISON CENTER or doctor/physician if you feel unwell.

First-aid measures after skin contact : Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water.

Rinse skin with water/shower. Wash contaminated clothing before reuse. If skin irritation

occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

## 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : Causes damage to organs.

Symptoms/injuries after inhalation : May cause an allergic skin reaction. May cause respiratory irritation.

Symptoms/injuries after skin contact : Causes skin irritation.

Symptoms/injuries after eye contact : Causes serious eye irritation.

## 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

## **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

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5.2. Special hazards arising from the substance or mixture

Fire hazard : Flammable liquid and vapour.

Explosion hazard : May form flammable/explosive vapour-air mixture.

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire fighting water from entering the environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

## **SECTION 6: Accidental release measures**

## 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Remove ignition sources. Use special care to avoid static electric charges. No open flames. No

smoking

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

## 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

## 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect

spillage. Store away from other materials.

## 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

## SECTION 7: Handling and storage

## 7.1. Precautions for safe handling

Additional hazards when processed : Handle empty containers with care because residual vapours are flammable.

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation

of vapour. No open flames. No smoking. Take precautionary measures against static discharge. Use only non-sparking tools. Avoid breathing vapours. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use only

outdoors or in a well-ventilated area.

Hygiene measures : Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out

of the workplace. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed. Ground/bond

container and receiving equipment. Use explosion-proof electrical equipment.

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Heat sources.

Keep container tightly closed.

Incompatible products : water, amines and alcohol's. Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight. Heat sources.

## 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

No additional information available

## 8.2. Exposure controls

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection (Council Directive 89/686/EEC) : Wear protective gloves

Eye protection : Chemical goggles or safety glasses

Skin and body protection: : Wear suitable protective clothing

Respiratory protection (type A1 according to standard EN14387) : Wear appropriate mask

Other information Do not eat, drink or smoke during use

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## SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

Physical state : Liquid Colour : Transparent. Odour : characteristic Odour threshold No data available На : Not applicable Relative evaporation rate (butylacetate=1) : No data available Melting point : No data available Freezing point No data available Boiling point : No data available

Flash point : 28 °C

Auto-ignition temperature : No data available
Decomposition temperature : No data available

Flammability (solid, gas) : Flammable liquid and vapour

Vapour pressure : No data available
Relative vapour density at 20 °C : No data available
Relative density : No data available
Density : 0,99 g/cm³
Solubility : organic solvents.
Log Pow : No data available
Viscosity, kinematic : No data available

Viscosity, dynamic : 40 cP

Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : No data available

## 9.2. Other information

No additional information available

## **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

No additional information available

## 10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

## 10.3. Possibility of hazardous reactions

None under normal use.

## 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame. Overheating. Heat. Sparks.

## 10.5. Incompatible materials

water, amines and alcohol's. Strong acids. Strong bases.

## 10.6. Hazardous decomposition products

fume. May release flammable gases.

## SECTION 11: Toxicological information

## 11.1. Information on toxicological effects

Acute toxicity : Not classified

Skin corrosion/irritation : Causes skin irritation.

pH: Not applicable

Serious eye damage/irritation : Causes serious eye irritation.

pH: Not applicable

Respiratory or skin sensitisation : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified

Based on available data, the classification criteria are not met

Carcinogenicity : Suspected of causing cancer.

Reproductive toxicity : Not classified 1 of 4

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Additional information : Based on available data, the classification criteria are not met

Specific target organ toxicity (single exposure) : May cause respiratory irritation.

Specific target organ toxicity (repeated

exposure)

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

Aspiration hazard : Not classified

Additional information : Based on available data, the classification criteria are not met

Viscosity, kinematic : 40,40404040 mm²/s

Potential adverse human health effects and

symptoms

: Based on available data, the classification criteria are not met.

## SECTION 12: Ecological information

## 12.1. Toxicity

No additional information available

## 12.2. Persistence and degradability

No available data

## 12.3. Bioaccumulative potential

No available data

## 12.4. Mobility in soil

No additional information available

## 12.5. Results of PBT and vPvB assessment

No additional information available

## 12.6. Other adverse effects

Additional information : Avoid release to the environment

## SECTION 13: Disposal considerations

## 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of

contents/container to a hazardous or special waste collection point.

Additional information : Handle empty containers with care because residual vapours are flammable.

Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

## 14.1. UN number

UN-No. (ADR) : Not applicable
UN-No. (IMDG) : Not applicable
UN-No. (IATA) : Not applicable
UN-No. (ADN) : Not applicable
UN-No. (RID) : Not applicable

## 14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not applicable
Proper Shipping Name (IMDG) : Not applicable
Proper Shipping Name (IATA) : Not applicable
Proper Shipping Name (ADN) : Not applicable
Proper Shipping Name (RID) : Not applicable

## 14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : Not applicable

IMDG

Transport hazard class(es) (IMDG) : Not applicable

IATA

Transport hazard class(es) (IATA) : Not applicable

ADN

Transport hazard class(es) (ADN) : Not applicable 1 of 4

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RID

Transport hazard class(es) (RID) : Not applicable

Packing group

Packing group (ADR) : Not applicable Packing group (IMDG) : Not applicable Packing group (IATA) : Not applicable Packing group (ADN) : Not applicable Packing group (RID) : Not applicable

**Environmental hazards** 14.5.

Dangerous for the environment : No Marine pollutant : No

Other information : No supplementary information available

#### 14.6. Special precautions for user

## - Overland transport

Not applicable

## - Transport by sea

Not applicable

## - Air transport

Not applicable

## - Inland waterway transport

Not applicable

## - Rail transport

Not applicable

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable

## **SECTION 15: Regulatory information**

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

### 15.1.1. **EU-Regulations**

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

### 15.1.2. **National regulations**

Germany

: Water hazard class (WGK) 2, hazard to waters (Classification according to VwVwS, Annex 4) VwVwS Annex reference

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV

: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen : None of the components are listed : None of the components are listed SZW-lijst van mutagene stoffen

NIET-limitatieve lijst van voor de voortplanting giftige stoffen - Borstvoeding

: None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen - Vruchtbaarheid

: None of the components are listed

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen - Ontwikkeling

: xvlene is listed

Denmark

Class for fire hazard : Class II-1 Store unit

R10 <H226;H315;H317;H319;H335;H351;H373>; Emergency management guidelines for the Classification remarks

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Recommendations Danish Regulation

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: Young people below the age of 18 years are not allowed to use the product

Pregnant/breastfeeding women working with the product must not be in direct contact with the product

Persons suffering from asthma or eczema and persons who have chronic lung diseases, skin or respiratory allergies to isocyanates should not work with the material

The requirements from the Danish Working Environment Authorities regarding work with epoxy resins and isocyanates must be observed during use and disposal

The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

### 15.2. **Chemical safety assessment**

No data available

STOT SE 3

STOT RE 2

## **SECTION 16: Other information**

Data sources REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE

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COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending

Regulation (EC) No 1907/2006.

Other information : None.

Full text of H- and EUH-stateme	nts:			
Acute Tox. 4 (Dermal)	Acute toxicity	Acute toxicity (dermal), Category 4		
Acute Tox. 4 (Inhalation)	Acute toxicity	Acute toxicity (inhal.), Category 4		
Asp. Tox. 1	Aspiration haz	Aspiration hazard, Category 1		
Carc. 2	Carcinogenici	Carcinogenicity, Category 2		
Eye Irrit. 2	Serious eye d	Serious eye damage/eye irritation, Category 2		
Flam. Liq. 3	Flammable liq	Flammable liquids, Category 3		
Resp. Sens. 1	Sensitisation -	Sensitisation — Respiratory, Category 1		
Skin Irrit. 2	Skin corrosion	Skin corrosion/irritation, Category 2		
Skin Sens. 1	Sensitisation -	Sensitisation — Skin, Category 1		
STOT RE 2	Specific targe	Specific target organ toxicity — Repeated exposure, Category 2		
STOT SE 3	Specific targe	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation		
H226	Flammable lig	Flammable liquid and vapour		
H304	May be fatal it	May be fatal if swallowed and enters airways		
H312	Harmful in cor	Harmful in contact with skin		
H315	Causes skin i	Causes skin irritation		
H317	May cause an	May cause an allergic skin reaction		
H319	Causes seriou	Causes serious eye irritation		
H332	Harmful if inha	Harmful if inhaled		
H334	May cause all	May cause allergy or asthma symptoms or breathing difficulties if inhaled		
H335	May cause re	May cause respiratory irritation		
H351	Suspected of	Suspected of causing cancer		
H373	May cause da	May cause damage to organs through prolonged or repeated exposure		
EUH204	Contains isoc	Contains isocyanates. May produce an allergic reaction		
Flam. Liq. 3	H226	On basis of test data		
Skin Irrit. 2	H315	Calculation method		
Eye Irrit. 2	H319	Calculation method		
Skin Sens. 1	H317	Calculation method		
Carc. 2	H351	Calculation method		
Odi 0. 2	11001	- Calculation motified		

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

Calculation method

Calculation method

H335

H373

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