Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 16.04.2015 Version number 2 Revision: 02.09.2014

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

- **1.1 Product identifier**
- **Trade name: PUR 2 K LIJM PU666 Comp.B**

- **Article number:** R045018-00
- **CAS Number:**
9016-87-9
- **EC number:**
618-498-9
- **Index number:**
615-005-00-9

- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.

- **Application of the substance / the mixture** Hardening agent/ Curing agent

- **1.3 Details of the supplier of the safety data sheet**

- **Manufacturer/Supplier:**

Vosschemie Benelux bvba

- **Mechelsesteenweg 303**

- **B-2500 Lier**

- **Tel: +32 (0)3 489 28 28**

- **Fax: +32 (0)3 488 19 27**

- **mailto: info@vosschemie-benelux.com**

- **1.4 Emergency telephone number:**
In case of poisoning:
I
Tel.(24h): +32 (0)70 245 245 (all languages)

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SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**

Acute Tox. 4	H332	Harmful if inhaled.
Skin Irrit. 2	H315	Causes skin irritation.
Eye Irrit. 2	H319	Causes serious eye irritation.
Resp. Sens. 1	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin Sens. 1	H317	May cause an allergic skin reaction.
Carc. 2	H351	Suspected of causing cancer.
STOT SE 3	H335	May cause respiratory irritation.
STOT RE 2	H373	May cause damage to organs through prolonged or repeated exposure.

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
Xn; Harmful
R20-40-48/20: Harmful by inhalation. Limited evidence of a carcinogenic effect. Harmful: danger of serious damage to health by prolonged exposure through inhalation.

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Xn; Sensitising
R42/43: May cause sensitisation by inhalation and skin contact.

Xi; Irritant
R36/37/38: Irritating to eyes, respiratory system and skin.

Carc. Cat. 3

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The substance is classified and labelled according to the CLP regulation.
- **Hazard pictograms**

GHS07 GHS08

- **Signal word** Danger
- **Hazard-determining components of labelling:**
methylenediphenyl diisocyanate, isomeres and homologues
- **Hazard statements**
H332 Harmful if inhaled.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317 May cause an allergic skin reaction.
H351 Suspected of causing cancer.
H335 May cause respiratory irritation.
H373 May cause damage to organs through prolonged or repeated exposure.
- **Precautionary statements**
P280 Wear protective gloves / protective clothing.
P260 Do not breathe mist/vapours/spray.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P314 Get medical advice/attention if you feel unwell.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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SECTION 3: Composition/information on ingredients

- **3.1 Chemical characterisation: Substances**
- **CAS No. Designation:**
9016-87-9 methylenediphenyl diisocyanate, isomeres and homologues
- **Identification number(s):**
- **EC number:** 618-498-9
- **Index number:** 615-005-00-9
- **SVHC** Doesn't contain SVHC-substances

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SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **After inhalation**
Supply fresh air; consult doctor in case of complaints.
In case of unconsciousness bring patient into a stable side position for transport.
- **After skin contact**
Treat affected skin with cotton wool or cellulose. Then wash and rinse thoroughly with water and a mild cleaning agent.
- **After eye contact** Rinse opened eye for several minutes under running water. Then consult doctor.
- **After swallowing** Do not induce vomiting; call for medical help immediately.
- **4.2 Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents**
Water spray
Alcohol-resistant foam
Fire-extinguishing powder
Carbon dioxide
- **For safety reasons unsuitable extinguishing agents** Water with full jet.
- **5.2 Special hazards arising from the substance or mixture**
Formation of toxic gases is possible during heating or in case of fire.
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Ensure adequate ventilation
Use respiratory protective device against the effects of fumes/dust/aerosol.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:** Pick up mechanically.
- **6.4 Reference to other sections**
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.
- **Information about protection against explosions and fires:** No special measures required.

- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and receptacles:** Prevent any seepage into the ground.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:**
Protect from frost.
Keep receptacle tightly sealed.

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Protect from heat and direct sunlight.
Store receptacle in a well ventilated area.
Store in dry conditions.
- **Storage class (according german VCI-concept):** 10
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

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

- **8.1 Control parameters**

- **Components with limit values that require monitoring at the workplace:**	
9016-87-9 methylenediphenyl diisocyanate, isomeres and homologues	
WEL (Great Britain)	Short-term value: 0.07 mg/m³ Long-term value: 0.02 mg/m³ Sen; as -NCO

- **8.2 Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures**
The usual precautionary measures should be adhered to when handling chemicals.
Keep away from foodstuffs, beverages and feed.
Wash hands before breaks and at the end of the work.
Immediately remove all soiled and contaminated clothing
- **Breathing equipment:**
Not required with good ventilation and/or adequate extractor facilities
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
Short term filter device:
A2 (DIN EN 14387 / DIN EN 141)
- **Protection of hands:**
Protective gloves made of the following material:
Nitrile rubber, NBR (0,8mm)
The named material refers only to the chemical resistance to the product.
Another important factor in the selection of the right gloves is their resistance to mechanical wear and tear. This, however, can differ completely from company to company which is why we recommend that users contact glove manufacturers in order to establish compliance with their own individual operating needs. Attention is also to be paid to an adequate penetration time (> 240min / EN374) of the glove material which complies with the strength and duration of exposure to the product.
- **Eye protection:** Safety glasses

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**
Form: Fluid
Colour: Brown
- **Odour:** Characteristic

- **Change in condition**
Boiling point/Boiling range: Not determined

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- **Flash point:**	> 200 °C
- **Ignition temperature:**	> 400 °C
- **Explosion limits:**	
Lower:	Not determined
Upper:	Not determined
- **Vapour pressure at 25 °C:**	< 0.0001 hPa
- **Specific gravity at 20 °C:**	1.23 g/cm³
- **Solubility in / Miscibility with**	
Water:	Insoluble reacts with water
- **Viscosity:**	
dynamic at 20 °C:	250 mPas (Brookfield)
- **Solvent content:**	
VOC (EU):	0.00 %
VOC (CH):	0.00 %
- **9.2 Other information**	No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity**
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions**
Reacts with alcohols, amines, aqueous acids and alkalis.
Reacts with water forming carbon dioxide. In closed containers there is a danger of bursting, due to build up of pressure.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**
In case of fire, the following substance(s) may occur:
Nitrogen oxides
- **Additional information:** Open and release pressure carefully with pressurised containers

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**		
ATE (Acute Toxicity Estimates)		
Inhalative	LC50/4 h	11 mg/l

9016-87-9 methylenediphenyl diisocyanate, isomeres and homologues		
Inhalative	LC50/4 h	11 mg/l (ATE)

- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.

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- **Additional toxicological information:**
Harmful
Limited evidence of a carcinogenic effect.
Vapours may cause drowsiness and dizziness.
- **Sensitisation** May cause sensitisation by inhalation and skin contact.
- **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)**
Carc. 2

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic 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.
- **Additional ecological information:**
- **General notes:** Do not allow product to reach ground water, water course or sewage system.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation** Disposal in accordance with official regulations
- **EWC-Code(s):**

To be treated as industrial waste: do not dispose of in or on soil, in watercourses or bodies, or through a sewage system. These EU refuse code numbers are recommendations for waste accruing through the use of adhesives and sealants. Any waste produced from organic solvents or other dangerous substances listed under item 3 of this safety datasheet is itself classified as dangerous (*).

Waste accruing during application:
080409* waste adhesives and sealants containing organic solvents or other dangerous substances
080410 waste adhesives and sealants other than those mentioned in 080409

Waste accruing during cleaning:
08 04 11* adhesive and sealant sludges containing organic solvents or other dangerous substances
08 04 12 adhesive and sealant sludges other than those mentioned in 080411

Soiled waste packaging:
15 01 10* packaging containing residues of or contaminated by dangerous substances.

Clean waste packaging:
15 01 01 paper and cardboard packaging
15 01 02 plastic packaging
15 01 04 metallic packaging
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

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SECTION 14: Transport information

- **14.1 UN-Number** - **ADR, ADN, IMDG, IATA**	Void
- **14.2 UN proper shipping name** - **ADR, ADN, IMDG, IATA**	Void
- **14.3 Transport hazard class(es)** - **ADR, ADN, IMDG, IATA** - **Class**	Void
- **14.4 Packing group** - **ADR, IMDG, IATA**	Void
- **14.5 Environmental hazards:** - **Marine pollutant:**	No
- **14.6 Special precautions for user**	Not applicable.
- **14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**	Not applicable.
- **Transport/Additional information:**	Protect from moisture
- **IATA** - **Remarks:**	not restricted
- **UN "Model Regulation":**	-

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SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
No further relevant information available.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

*
SECTION 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.

For industrial use only.

- **Department issuing MSDS:**
- **Abbreviations and acronyms:**
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organisation
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VOCV: Lenkungsabgabe auf flüchtigen organischen Verbindungen, Schweis (Swiss Ordinance on volatile organic compounds)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent

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Acute Tox. 4: Acute toxicity, Hazard Category 4
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
Resp. Sens. 1: Sensitisation - Respirat., Hazard Category 1
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
Carc. 2: Carcinogenicity, Hazard Category 2
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2

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

GB