Printing date 17.06.2008 Revision: 17.06.2008

1 Identification of substance:

· Product details:

· Trade name: DAYSON PU SEALANT

· Application of the substance / the preparation : Polyurethane sealant

· Manufacturer/Supplier:

AVRUPA MUMEŠŠÍLLÍK VE DIS TÍC AS.(DAYSON)

Vefa bey sok.yesil ap.Bblok.k.3.d.10

Gayrettepe –Besiktaş. Istanbul-Turkey

Tel: 0090212-288 05 40 Fax: 00 90 212-275 91 76 Web site: www.avrupagroup.com E-mail: avrupan@superonline.com

· Information department: Environment Protection Department

· Emergency information: -

2 Hazards identification

· Hazard description:



Xn Harmful

· Information pertaining to particular dangers for man and environment

R 42 May cause sensitisation by inhalation.

Contains isocyanates. See information supplied by the manufacturer.

· Classification system

The classification was made according to the latest editions of the EU-lists, and expanded upon from company and literature data.

3 Composition/information on ingredients

- · Chemical characterization
- · Description:

Product containing a polyurethane prepolymer based on diphenylmethanediisocyanate.

· Dangerous components:	
CAS: 1330-20-7 xylene, mixture of isomers EINECS: 215-535-7 X Xn, X Xi; R 10-20/21-38	2.5-10%
CAS: 1305-78-8 calcium oxide EINECS: 215-138-9 X Xi; R 41	< 2.5%
CAS: 64742-47-8 distillates (petroleum), light EINECS: 265-149-8 Xn; R 65-66	< 2.5%
CAS: 100-41-4 ethylbenzene EINECS: 202-849-4 X Xn, 8 F; R 11-20	< 2.5%
CAS: 101-68-8 diphenylmethane-4,4'-diisocyanate EINECS: 202-966-0	< 1%

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

4 First aid measures

- · General information Immediately remove any clothing soiled by the product.
- · After inhalation

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

· After skin contact Immediately wash with water and soap and rinse thoroughly.

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· After eye contact

Rinse opened eye for several minutes under running water. Then consult a doctor.

· The following symptoms may occur:

Drowsiness Headache Dizziness Nausea

5 Fire fighting measures

· Suitable extinguishing agents

Carbon dioxide

Foam

Fire-extinguishing powder

- · For safety reasons unsuitable extinguishing agents Water with full jet.
- · Special hazards caused by the material, its products of combustion or resulting gases:

In case of fire, the following can be released:

Carbon monoxide (CO)

Nitrogen oxides (NOx)

In certain fire conditions, traces of other toxic gases cannot be excluded, e.g.:

Hydrogen cyanide (HCN)

Isocyanates

· Protective equipment: Wear self-contained respiratory protective device.

6 Accidental release measures

· Person-related safety precautions:

Ensure adequate ventilation.

Keep away from ignition sources.

· Measures for environmental protection:

Do not allow product to reach sewage system or any water course.

· Measures for cleaning/collecting:

Pick up mechanically.

Send for recovery or disposal in suitable receptacles.

Do not close them (reaction with water forming carbon dioxide).

7 Handling and storage

- · Handling
- · Information for safe handling: Ensure good ventilation/exhaustion at the workplace.
- · Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

- · Storage
- · Requirements to be met by storerooms and receptacles: Provide ventilation for receptacles.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:

Keep receptacle tightly sealed.

Store in dry conditions.

Store in a cool place.

8 Exposure controls and personal protection

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

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Components with limit values that require monitoring at the workplace:

1330-20-7 xylene, mixture of isomers

WEL Short-term value: 441 mg/m³, 100 ppm
Long-term value: 220 mg/m³, 50 ppm
Sk; BMGV

64742-47-8 distillates (petroleum), light
OEL Short-term value: 1200 mg/m³, 165 ppm
100-41-4 ethylbenzene

WEL Short-term value: 552 mg/m³, 125 ppm
Long-term value: 441 mg/m³, 100 ppm

101-68-8 diphenylmethane-4,4'-diisocyanate

WEL Short-term value: 0.07 mg/m³
Long-term value: 0.02 mg/m³

· Additional information: The lists that were valid during the creation were used as basis.

· Personal protective equipment

Sen; as -NCO

· General protective and hygienic measures

Avoid close or long term contact with the skin.

Wash hands before breaks and at the end of work.

Do not eat, drink, smoke while working.

Breathing equipment:

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:

Filter AB

· Protection of hands:

PVA gloves of superior quality.

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.

- · Eye protection: Tightly sealed goggles.
- · Body protection: Protective work clothing.

9 Physical and chemical properties:

· General Information	
Form:	Pasty
Colour:	Various colours
Odour:	Light
Change in condition Melting point/Melting Boiling point/Boiling	
· Flash point:	40-55℃
· Flammability (solid)	The product is not subject to classification because its speed of

Self-ignition temperature: > 200℃
 Self igniting: Product is not selfigniting at room temperature.
 Pager of explosion: Product is not explosive. However, formation of explosive air/

combustion is lower than the limit of the regulation.

• **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

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· Explosion limits:

Lower: 0.6 Vol % **Upper:** 7 Vol %

• Density at 20℃: 1.17

· Solubility in / Miscibility with

Water: Not miscible or difficult to mix.

10 Stability and reactivity

- · Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- · Materials to be avoided:
- · Dangerous reactions:

Reacts with alcohols, amines, aqueous acids and alkalis.

Reacts with water forming carbon dioxide. Danger of receptacles bursting because of vapour overpressure.

· Dangerous products of decomposition: No dangerous decomposition products known.

11 Toxicological information

· Acute toxicity:

· LD/LC50	· LD/LC50 values that are relevant for classification:				
1330-20-7	1330-20-7 xylene, mixture of isomers				
Oral	LD50	8700 mg/kg (rat)			
Dermal	LD50	2000 mg/kg (rbt)			
Inhalative	LC50/4 h	6350 mg/l (rat)			
100-41-4	100-41-4 ethylbenzene				
Oral	LD50	3500 mg/kg (rat)			
Dermal	LD50	17800 mg/kg (rbt)			

- · Primary irritant effect:
- · on the skin: May be slightly irritant.
- on the eye: Light irritating effect.
- · Sensitization: Sensitization possible through inhalation.
- · Sensitisation May cause sensitisation by inhalation.

12 Ecological information:

- · Ecotoxical effects:
- · Other information: -
- · General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water.

Do not allow product to reach ground water, water course or sewage system.

13 Disposal considerations

- · Product:
- · Recommendation

Must be disposed of in an incinerator for hazardous waste according to official regulations.

Waste disposal key: 08 04 09*

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· Uncleaned packagings:

· Recommendation: Disposal must be made according to official regulations.

14 Transport information

· Land transport ADR/RID (cross-border)

· ADR/RID class:

· Remarks: Not hazardous

· Maritime transport IMDG:

· IMDG Class: · Marine pollutant: No

· Remarks: Not hazardous

· Air transport ICAO-TI and IATA-DGR:

· ICAO/IATA Class:

· Propper shipping name: Not regulated · Remarks: Not hazardous.

15 Regulations

· Markings according to EU guidelines:

The product has been classified and marked in accordance with EU directives.

· Code letter and hazard designation of product:



Xn Harmful

· Hazard-determining components of labelling:

diphenylmethane-4,4'-diisocyanate

· Risk phrases:

42 May cause sensitisation by inhalation.

· Safety phrases:

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

· Special labelling of certain preparations:

Contains isocyanates. See information supplied by the manufacturer.

Advised phrases:

S 23 Do not breathe vapour.

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 28 After contact with skin, wash immediately with plenty of soap and water.

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. This data sheet is particularly in accordance with the european directives 1999/45/EC and 2001/59/EC; it is written according to the european regulation 1907/2006/EC (annex II).

· Relevant R-phrases

10 Flammable.

11 Highly flammable.

20 Harmful by inhalation.

20/21 Harmful by inhalation and in contact with skin.

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

38 Irritating to skin.

41 Risk of serious damage to eyes.

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

65 Harmful: may cause lung damage if swallowed.

66 Repeated exposure may cause skin dryness or cracking.

- · Department issuing MSDS: Laboratory
- In accordance with the international standard :

ISO 11014-1

An asterisk in the margin of a paragraph means amendments in comparison to the former version.

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