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GB

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 12.08.2010

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1 Identification of the substance/preparation and of the company/undertaking
. Product details
. Trade name: PU Max Liquid (bottle)
. Application of the substance / the preparation Adhesive
. Manufacturer/Supplier:
  Bison International
 Dr.A.F.Philipsstraat 9
 NL-4462 EW Goes
 PO Box 160
 NL-4460 AD Goes
 tel. +31 113 235700
  fax. +31 113 232077
  e mail: msds@bison.boltongroup.nl
. Further information obtainable from: Bison R&D
. Information in case of emergency: +31 113 235700
2 Hazards identification
. Hazard description:
          Xn Harmful
 Information concerning to particular hazards to man 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.
             Harmful by inhalation.
  R 20
 R 36/37/38 Irritating to eyes, respiratory system and skin.
             Limited evidence of a carcinogenic effect.
  R 40
 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
  3.4/1 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
  3.2/2 - Causes skin irritation.
  3.3/2A - Causes serious eye irritation.
  3.4/1 - May cause an allergic skin reaction.
  3.6/2 - Suspected of causing cancer.
  3.9/2 - May cause damage to organs through prolonged or repeated exposure.
         Warning
  3.1/4 - Harmful if inhaled.
  3.8/3 - May cause respiratory irritation. May cause drowsiness or dizziness.
                                                                         (Contd. on page 2)
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Trade name: PU Max Liquid (bottle)			
<pre>(Contd. of page 1) . Prevention: Do not breathe dust/fume/gas/mist/vapours/spray. In case of inadequate ventilation wear respiratory protection Response: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Specific treatment (see on this label) Storage: Store locked up Disposal: Dispose of contents/container in accordance with local/regional/national/ international regulations.</pre>			
<pre>3 Composition/information on ingredients . Chemical characterization: . CAS No. Description 9016-87-9 diphenylmethanediisocyanate,isomeres and homologues . Identification number(s) . EINECS Number: 202-966-0 . Index number: 615-005-01-6</pre>			
. Chemical characterization . Description: Adhesive . Dangerous components:			
<pre>Isocyanates: Isocyanates, reaction product of polyol with 50-100% methylenediphenyl diisocyanate Xn, Xi; R 20-36/37/38-40-42/43-48/20 Danger: health hazard 3.4.R/1, 3.2/2, 3.3/2A, 3.4.S/1, 3.6/2, 3.9/2 Warning: exclamation mark 3.1.I/4, 3.8/3 CAS: 9016-87-9 diphenylmethanediisocyanate, isomeres and homologues 25-50% EINECS: 202-966-0 Xn, Xi; R 20-36/37/38-40-42/43-48/20 Danger: health hazard 3.4.R/1, 3.2/2, 3.3/2A, 3.4.S/1, 3.6/2, 3.9/2 Warning: exclamation mark 3.1.I/4, 3.8/3</pre>			
<pre>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. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. In case of unconsciousness place patient stable 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: Do not induce vomiting; call for medical help immediately.</pre>			
<pre>5 Fire-fighting measures . Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions. (Contd. on page 3)</pre>			

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Trade name: PU Max Liquid (bottle)			
(Contd. of page 2) . Protective equipment: Mount respiratory protective device.			
6	Accidental release measures		
	<pre>Person-related safety precautions: Wear protective equipment. Keep unprotected persons away. Measures for environmental protection: No special measures required. Measures for cleaning/collecting: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.</pre>		
7	Handling and storage		
•	Handling: Information for safe handling: Ensure good ventilation/exhaustion at the workplace. 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 receptacle tightly sealed.		
8	Exposure controls/personal protection		
•	Additional information about design of technical facilities: No further data; see item 7.		
	<pre>Ingredients with limit values that require monitoring at the workplace: 9016-87-9 diphenylmethanediisocyanate,isomeres and homologues WEL () Short-term value: 0.07 mg/m³ Long-term value: 0.02 mg/m³ Sen; as -NCO Additional information: The lists valid during the making were used as basis.</pre>		
	<pre>Personal protective equipment: General protective and hygienic measures: The usual precautionary measures are to be adhered to when handling chemicals. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Do not inhale gases / fumes / aerosols. 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</pre>		
	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 (Contd. on page 4)		

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Trade name: PU Max Liquid (bottle)				
application.	(Contd. of page 3)			
. Penetration time of glove material The exact break trough time has to be found out by the manufacturer of the				
protective gloves and has to be	observed.			
. For the permanent contact of a m materials are suitable:	maximum of 15 minutes gloves made of the following			
PVC or PE gloves				
. Eye protection: Tightly sealed g . Body protection: Use protective				
9 Physical and chemical properties				
. General Information				
Form:	Liquid			
Colour: Odour:	According to product specification Characteristic			
. Change in condition				
Melting point/Melting range:				
Boiling point/Boiling range:				
. Flash point:	> 100°C 400°C			
. Ignition temperature:				
. Self-igniting:	Product is not selfigniting.			
. Danger of explosion:	Product does not present an explosion hazard.			
. Vapour pressure at 25°C:	0.0002 hPa			
. Density at 20°C:	1.13 g/cm ³			
. Solubility in / Miscibility with water:	Not miscible or difficult to mix.			
. Viscosity: Dynamic at 20°C:	4500 mPas			
Solids content:	100.0 %			
10 Stability and reactivity				
. Thermal decomposition / condition	ons to be avoided:			
No decomposition if used accordi	ng to specifications.			
. Materials to be avoided: . Dangerous reactions				
Reacts with alcohols. Reacts with water.				
Reacts with alkali, amines and s	strong acids.			
. Dangerous decomposition products: Danger of forming toxic pyrolysis products.				
11 Toxicological information				
. Acute toxicity:				
. 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 s	skin contact.			
	(Contd. on page 5) GB			

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Trade name: PU Max Liquid (bottle) (Contd. of page 4) . 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: Generally not hazardous for water 13 Disposal considerations . Product: . Recommendation Must not be disposed together with household garbage. Do not allow product to reach sewage system. . Uncleaned packaging: . Recommendation: Disposal must be made according to official regulations. Packagings that may not be cleansed are to be disposed of in the same manner as the product. 14 Transport information . Land transport ADR/RID (cross-border) . ADR/RID class: . Maritime transport IMDG: IMDG Class: . Marine pollutant: No . 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: Isocyanates, reaction product of polyol with methylenediphenyl diisocyanate diphenylmethanediisocyanate, isomeres and homologues . Risk phrases:

Harmful by inhalation. 2.0 36/37/38 Irritating to eyes, respiratory system and skin. 40 Limited evidence of a carcinogenic effect.

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Trade name: PU Max Liquid (bottle)				
42/43 May cause sensitisation by inhalation and sk: 48/20 Harmful: danger of serious damage to health b inhalation.				
 Safety phrases: 23 Do not breathe fumes. 24/25 Avoid contact with skin and eyes. 26 In case of contact with eyes, rinse immediately medical advice. 37 Wear suitable gloves. 45 In case of accident or if you feel unwell, seek (show the label where possible). 51 Use only in well-ventilated areas. 				
. Special labelling of certain preparations: Contains isocyanates. See information supplied by the	manufacturer			
. National regulations:				
 Technical instructions (air): Class Share in % I 50-100 Waterhazard class: Generally not hazardous for water. 				
16 Other information This information is based on our present knowledge. He constitute a guarantee for any specific product featur legally valid contractual relationship.				
. Department issuing MSDS: R & D laboratory				

. Contact: M.L. de Jager

. * Data compared to the previous version altered.