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	·			
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	Safety data sheet			
SECTION 1. Identification	of the substance/mixture and of the company/undert	aking		
1.1. Product identifier Product name Chemical name and synonym	PUR 116 parte B Adesivo a base poliuretanica			
	substance or mixture and uses advised against vo a base poliuretanica			
1.3. Details of the supplier of the s	afety data sheet			
Name	Prospero s.r.l.			
Full address District and Country	via Emidio Villa 17 42124 Zona Ind.le Mancasale (RE) Italy			
	Tel. 0522 506161			
	Fax 0522 920553			
e-mail address of the competent pers	on			
responsible for the Safety Data Shee Product distribution by	a.tirelli@immgroup.it Alberto Tirelli			
1.4. Emergency telephone number	. 20. 249727 4029			
For urgent inquiries refer to	+39 3487374228			
SECTION 2. Hazards iden	SECTION 2. Hazards identification.			

2.1. Classification of the substance or mixture.

The product is classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of EC Regulation 1907/2006 and subsequent amendments. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:		
Carcinogenicity, category 2	H351	Suspected of causing cancer.
Acute toxicity, category 4	H332	Harmful if inhaled.
Specific target organ toxicity - repeated exposure, category 2	H373	May cause damage to organs through prolonged or repeated exposure.
Eye irritation, category 2	H319	Causes serious eye irritation.
Skin irritation, category 2	H315	Causes skin irritation.
Specific target organ toxicity - single exposure, category 3	H335	May cause respiratory irritation.
Respiratory sensitization, category 1	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin sensitization, category 1A	H317	May cause an allergic skin reaction.

2.2. Label elements.

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

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	!>				
Signal words:	Danger				
Hazard statements:					
H351 H332 H373 H319 H315 H335 H334 H317 EUH204	Harmful if inh May cause da Causes serio Causes skin May cause re May cause al May cause al	amage to organs thr ous eye irritation. irritation. espiratory irritation.	nptoms or breathing	difficulties if inhaled.	
Precautionary statements	S:				
P201 P284 P304+P340 P308+P313 P403+P233	[In case of in IF INHALED: IF exposed o	al instructions before adequate ventilation remove person to fur or concerned: Get me ill-ventilated place. K] wear respiratory pr resh air and keep co edical advice / attent	mfortable for breathing. ion.	
Contains:	4,4'-Methylen	nediphenyl diisocyan	ate, oligomers		
2.3. Other hazards.					
On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.					
SECTION 3. Cor	mposition/in	nformation on	ingredients.		
3.1. Substances.					

Information not relevant.

3.2. Mixtures.

Contains:

Identification.	Conc. %.	Classification 1272/2008 (CLP).
4,4'-Methylenediphenyl diisocyanate, oligomers		
CAS. 9016-87-9	55 - 100	Carc. 2 H351, Acute Tox. 4 H332, STOT RE 2 H373, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Resp. Sens. 1 H334, Skin Sens. 1A H317
EC		

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Note: Upper limit is not included into the range.

The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures.

4.1. Description of first aid measures.

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately. INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

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

For symptoms and effects caused by the contained substances, see chap. 11.

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

Information not available.

SECTION 5. Firefighting measures.

5.1. Extinguishing media.

SUITABLE EXTINGUISHING EQUIPMENT

Extinguishing substances are: carbon dioxide and chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak. UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water.

Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

5.2. Special hazards arising from the substance or mixture.

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE If large quantities of the product are involved in a fire, they can make it considerably worse. Do not breathe combustion products.

5.3. Advice for firefighters.

GENERAL INFORMATION

In the case of fire, use jets of water to cool the containers to prevent the risk of explosions (product decomposition and excess pressure) and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Remove all containers containing the product from the fire, if it is safe to do so.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS



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Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures.

6.1. Personal precautions, protective equipment and emergency procedures.

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions.

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up.

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material. Make sure the leakage site is well aired. Check incompatibility for container material in section 7. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections.

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage.

7.1. Precautions for safe handling.

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use.

7.2. Conditions for safe storage, including any incompatibilities.

Keep the product in clearly labelled containers. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s).

Information not available.

SECTION 8. Exposure controls/personal protection.

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8.1. Control parameters.

Regulatory References:

TLV-ACGIH

ACGIH 2014

4,4'-Methylenediphenyl	diisocyanate, olig	omers						
Threshold Limit Value.								
Туре	Country	TWA/8h		STEL/15min				
		mg/m3	ppm	mg/m3	ppm			
TLV-ACGIH			0,005					
Predicted no-effect concentra	ation - PNEC.							
Normal value in fresh water Normal value in marine water Normal value of STP microorganisms Normal value for the terrestrial compartment			1 mg/l 0,1 mg/l 1 mg/l 1 mg/kg					
Health - Derived no-effe	ct level - DNEL / D Effects on consumers.	MEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral.	VND	20 mg/kg bw/d		.,		.,		
Inhalation. Skin.	0,05 mg/m3 17,2 mg/cm2	VND 25 mg/kg bw/d	0,025 mg/m3	0,025 mg/m3	0,1 mg/m3 28,7 mg/cm2	0,1 mg/m3 50 mg/kg bw/d	0,05 mg/m3	0,05 mg/m3

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

8.2. Exposure controls.

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration. Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

Exposure levels must be kept as low as possible to avoid significant build-up in the organism. Manage personal protective equipment so as to guarantee maximum protection (e.g. reduction in replacement times).

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability. The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type B filter

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whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required. Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS.

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

SECTION 9. Physical and chemical properties.

9.1. Information on basic physical and chemical properties.

Appearance Colour Odour Odour threshold. pH. Melting point / freezing point. Initial boiling point. Boiling range. Flash point. Evaporation Rate Flammability of solids and gases Lower inflammability limit. Upper inflammability limit. Upper explosive limit. Upper explosive limit. Upper explosive limit. Vapour pressure. Vapour density Relative density. Solubility Partition coefficient: n-octanol/water Auto-ignition temperature. Decomposition temperature. Viscosity Explosive properties Oxidising properties	liquid copper Not available. Not available. Not available. Not available. > 300 °C. Not available. 205 °C. Not available. Not available. Not available. Not available. Not available. Not available. 0,01 Pa Not available. 1,170 Kg/I insoluble in water Not available. > 600 °C. Not available. 3300 mPas Not available. Not available.
9.2. Other information.	

VOC (Directive 2010/75/EC) : VOC (volatile carbon) :

SECTION 10. Stability and reactivity.

10.1. Reactivity.

There are no particular risks of reaction with other substances in normal conditions of use.

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0

10.2. Chemical stability.



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The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions.

No hazardous reactions are foreseeable in normal conditions of use and storage.

10.4. Conditions to avoid.

None in particular. However the usual precautions used for chemical products should be respected.

10.5. Incompatible materials.

Information not available.

10.6. Hazardous decomposition products.

Information not available.

SECTION 11. Toxicological information.

11.1. Information on toxicological effects.

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification. It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

This product must be handled carefully because of its possible carcinogenic effects. Anyway, currently available data do not allow us to comprehensively assess this product.

Acute effects: inhalation of this product is harmful. Exposure symptoms may include: stinging and irritated eyes, mouth, nose, throat; cough, respiratory disorders, dizziness, headache, nausea and sickness. In the most serious cases, inhalation of this product may cause larynx and bronchial tube edema and irritation, chemical pneumonia and pulmonary edema.

This product may cause functional disorders or morphological mutations after repeated or prolonged exposure and/or may accumulate inside the human body and is thus graded as dangerous.

Acute effects: stinging eyes. Symptoms may include: rubescence, edema, pain and lachrymation. Ingestion may cause health problems, including stomach pain and sting, nausea and sickness.

Acute effects: contact with skin may cause: irritation, erythema, edema, dryness and chapped skin. Ingestion may cause health disorders, including stomach pain and sting, nausea and sickness.

Acute effects: inhalation of this product may irritate the lower and upper respiratory tract and cause cough and respiratory disorders; at higher concentrations it can also cause pulmonary edema. Ingestion may cause health problems, including stomach pain and sting, nausea and sickness.

Inhalation of this product causes sensitization, which may then give rise to a series of inflammatory episodes, most of all characterized by obstruction and affecting the respiratory system. Sometimes, sensitization phenomena arise together with evident rhinitis and asthma. Damages to the respiratory system depend on the inhaled quantity, on the product concentration in the working environment and on the exposure time.

Upon contact with skin, this product causes sensitization (dermatitis). Dermatitis derives from skin irritation on the areas which repeatedly come into contact with the sensitizing agent. Cutaneous lesions may include: erythemas, edemas, papules, vesicles, pustules, scurvies, ulcerations and exudative phenomena, whose intensity varies according to illness seriousness and affected areas. Erythemas, edemas and exudative phenomena prevail during the acute phase. Scurfy skin, dryness, ulcerations and skin thickening prevail during the chronic phase.

This product contains isocyanates. Producer's specifications are as follows: Ready-to-use products containing isocyanates may irritate mucosas, particularly those of the respiratory system, and may give rise to hypersensitivity reactions. Vapour or aerosol inhalation may lead to sensitization. Please take all the measures used for all solvent-containing products while manipulating isocyanate-containing products. Avoid vapour and aerosol inhalation. People with allergic or asthmatic precedents or subject to respiratory disorders should not handle products containing isocyanates.

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4,4'-Methylenediphenyl diisocyanate, oligomers LD50 (Oral).> 5000 mg/kg LD50 (Dermal).> 9400 mg/kg LC50 (Inhalation).0,49 mg/l/4h

SECTION 12. Ecological information.

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

12.1. Toxicity. Information not available.

12.2. Persistence and degradability.

Information not available.

12.3. Bioaccumulative potential.

Information not available.

12.4. Mobility in soil.

Information not available.

12.5. Results of PBT and vPvB assessment.

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

12.6. Other adverse effects.

Information not available.

SECTION 13. Disposal considerations.

13.1. Waste treatment methods.

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information.

14.1. UN number.

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Not applicable.		
14.2. UN proper shipping name.		
Not applicable.		
14.3. Transport hazard class(es).		
Not applicable.		
14.4. Packing group.		
Not applicable.		
14.5. Environmental hazards.		
Not applicable.		
14.6. Special precautions for user.		
Not applicable.		
14.7. Transport in bulk according to	Annex II of MARPOL73/78 and the IBC Code.	
Information not relevant.		
SECTION 15. Regulatory	information.	
15.1. Safety health and environme	ental regulations/legislation specific for the substance or mixture.	
10.1. Oalety, ficaliti and chivitolinit		
Seveso category.	None.	
Restrictions relating to the product or c	ontained substances pursuant to Annex XVII to EC Regulation 1907/2006.	
Product. Point.	3	

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Substances in Candidate L	<u>ist (Art. 59 REACH).</u>		
None.			
Substances subject to auth	orisarion (Annex XIV REACH).		
None.			
Substances subject to exp	ortation reporting pursuant to (EC)	Reg. 649/2012:	
None.			
Substances subject to the	Rotterdam Convention:		
None.			
Substances subject to the	Stockholm Convention:		
None.			
Healthcare controls.			
	nemical agent must not undergo he are modest and that the 98/24/EC		sk-assessment data prove that the risks related to the
15.2. Chemical safety a	ssessment.		
No chemical safety assess	ment has been processed for the n	nixture and the substances it contains.	
SECTION 16. Oth	er information.		
Text of hazard (H) indication	ns mentioned in section 2-3 of the	sheet:	
Carc. 2	Carcinogenicity, category 2		
Acute Tox. 4	Acute toxicity, category 4		
STOT RE 2	Specific target organ toxicity - rep	peated exposure, category 2	
Eye Irrit. 2	Eye irritation, category 2		
Skin Irrit. 2	Skin irritation, category 2		
STOT SE 3	Specific target organ toxicity - sir	ndle exposure, category 3	

Specific target organ toxicity - single exposure, category 3

May cause damage to organs through prolonged or repeated exposure.

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

Respiratory sensitization, category 1

Skin sensitization, category 1A

Suspected of causing cancer.

Causes serious eye irritation.

May cause respiratory irritation.

Harmful if inhaled.

Causes skin irritation.

Resp. Sens. 1

Skin Sens. 1A

H351

H332

H373

H319

H315

H335

H334

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H317 May caus	e an allergic skin reaction.	
EUH204 Contains	socyanates. May produce an allergic reaction.	
 CAS NUMBER: Chemical Abstract Set CE50: Effective concentration (require CE NUMBER: Identifier in ESIS (Euro CLP: EC Regulation 1272/2008 DNEL: Derived No Effect Level EmS: Emergency Schedule GHS: Globally Harmonized System o IATA DGR: International Air Transpor IC50: Immobilization Concentration 5/ IMDG: International Maritime Organization INDEX NUMBER: Identifier in Annex LC50: Lethal Concentration 50% DEL: Occupational Exposure Level PBT: Persistent bioaccumulative and PEC: Predicted environmental Concertation PNEC: Predicted no effect concentration REACH: EC Regulation 1907/2006 RID: Regulation concerning the interret TLV: Threshold Limit Value 	ed to induce a 50% effect) appean archive of existing substances) f classification and labeling of chemicals t Association Dangerous Goods Regulation 0% r dangerous goods ion VI of CLP toxic as REACH Regulation ntration ion iational transport of dangerous goods by train puld not be exceeded during any time of occupational exposure. t irre limit cumulative as for REACH Regulation	
thoroughness of provided information a This document must not be regarded a The use of this product is not subject to laws and regulations. The producer is r	the European Parliament P) of the European Parliament opean Parliament P) of the European Parliament LP) of the European Parliament LP) of the European Parliament LP) of the European Parliament SLP) of the European Parliament SLP) of the European Parliament	

Changes to previous review: The following sections were modified: 09.