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PRIMER WB PU




PRIMER POLIURETANICO

Resina consolidante contro l'umidità per il trattamento di superfici o pavimentazioni assorbenti.

CARATTERISTICHE TECNICHE:

- Monocomponente
- 100 % poliuretano
- Inodore
- Esente da solventi
- Rapida asciugatura
- Elevata barriera contro l'umidità residua (max. 4 - 5 %)
- Proprietà consolidanti

PROPRIETÀ SPECIALI:

	<p>Simbolo EC1 PLUS Stabilito con il criterio GEV, classificato come EMICODE EC1 PLUS: bassissime emissioni.</p>
	<p>Classe di emissione secondo la normativa francese.</p>
	<p>Adatto per impianto a pavimento</p>

AREA DI APPLICAZIONE:

- Pavimentazioni assorbenti
- Massetti cementizi tradizionali
- Massetti in anidrite (solfato di calcio)
- Sottofondi assorbenti a riscaldamento o raffreddamento a pavimento

CONTINUA



PRIMER WB PU

CARATTERISTICHE SPECIFICHE (a C.N.):

Aspetto:	Liquido bruno
Viscosità Brookfield a 20 °C (mPa*s):	200 - 300
Resa: (g/m ²): Prima mano: Con due mani:	100 - 150 g/m ² 250 - 350 g/m ² (la resa del prodotto può variare a seconda della porosità o planarità della superficie da trattare)
Tempo di asciugatura (minuti):	45 - 55
Sovrapplicazione (ore):	2
Temperatura d'uso (°C):	Minimo +15
Applicazione/Attrezzi:	Rullo, pennello
Pulizia attrezzi:	GR7, a prodotto ancora fresco
Rimozione del prodotto:	GR7, a prodotto ancora fresco
Magazzinaggio (mesi): temperatura maggiore +5 °C	12
Informazioni sullo smaltimento:	Smaltire in conformità alle vigenti disposizioni locali e nazionali
Confezioni:	10 kg
Raccomandazioni d'uso:	Per l'incollaggio usare preferibilmente i nostri adesivi bicomponenti (es. PELPREN PL6) o monocomponenti silanici come ADESIVO WB MONO MS/LE o WB MONO MS. Usare sempre adeguati sistemi di protezione individuale Consultare sempre la Scheda Tecnica e la Scheda di Sicurezza
GISCODE:	RU 1

PREPARAZIONE DEL SUPPORTO:

Verificare sempre l'umidità del sottofondo con appositi strumenti. Il sottofondo da trattare dovrà essere compatto e privo di parti distaccanti e conforme alla normativa DIN 18356. Eventuali difetti della superficie, come fessurazioni o crepe vanno trattate impastando della sabbia fine (non marina) con PRIMER WB PU fino a ottenere una malta omogenea.

Prima dell'applicazione assicurarsi della presenza di una adeguata barriera a vapore.

APPLICAZIONE:

Ambientare e mescolare il prodotto prima dell'impiego. Verificare sempre la compattezza e l'umidità del massetto (max 4 - 5 %).

Applicare la prima mano di PRIMER WB PU a rullo o a pennello. Lasciare asciugare in ambiente aerato 45 - 55 minuti in condizioni ambientali adeguate +15 °C - 25 °C e 50 - 70% U.R. (condizioni diverse possono portare a risultati non eccellenti o a una variazione dei tempi di asciugatura).

Se necessario applicare entro le 12 ore la seconda mano di PRIMER WB PU e nel caso di applicazione di 1 livellante spargere sull'ultima mano di primer della sabbia di quarzo fine (0,1 - 0,3 mm) ed asciutta (non marina). Successivamente (dopo circa 2 ore) rimuovere l'eccesso di sabbia prima dell'incollaggio che deve essere effettuato entro le 24 ore.

Usare sempre adeguati sistemi di protezione individuali.

Consultare sempre la scheda tecnica e di sicurezza del prodotto.

PITTOGRAMMI DI PERICOLO:





Adesiv s.r.l.

Revision nr. 1-EN

Dated 02/04/2019

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Safety data sheet

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

1.1. Product identifier.

Code: WBPU
Product name: PRIMER WB PU

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

Intended use: Quick-acting insulating primer specific for treatments against humidity.

IDENTIFIED USES

Professional (SU22)

Consumer (SU21)



1.3. Details of the supplier of the safety data sheet.

Name: Adesiv s.r.l.
Full address: Via Delle Rose, 31
District and Country: 36061 Bassano del Grappa (Vicenza)
Italia
Tel. +39 0424 566406
Fax. +39 0424 566473

e-mail address of the competent person.
responsible for the Safety Data Sheet. laboratorio@adesiv.it

1.4. Emergency telephone number.

For urgent inquiries refer to.
Poison centres (24/24 h)
Italy: +39 02 6610 1029
Germany: +49 30 192 40
UK: +44 844 892 0111
France: +33 (0) 1 40 05 48 48
Spain: +34 91 562 0420
Russia: +7 495 628 1687

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.



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Skin sensitization, category 1

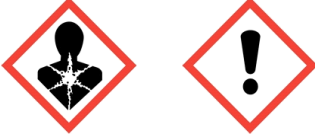
H317

May cause an allergic skin reaction.

2.2. Label elements.

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

Hazard pictograms:



Signal words:

Danger

Hazard statements:

H351	Suspected of causing cancer.
H332	Harmful if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317	May cause an allergic skin reaction.
EUH204	Contains isocyanates. May produce an allergic reaction.

Precautionary statements:

P201	Obtain special instructions before use.
P280	Wear protective gloves / clothing and eye / face protection.
P284	[In case of inadequate ventilation] wear respiratory protection.
P304+P340	IF INHALED: remove person to fresh air and keep comfortable for breathing.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.

Contains: 4,4'-methylenediphenyl diisocyanate
Methylenediphenyl diisocyanate, isomers and homologues
Reaction mass of 4,4'-methylenediphenyldiisocyanate and o-(pisocyanatobenzyl)phenyl isocyanate
Poly[oxy(methyl-1,2-ethanediyl)], α -hydro- ω -hydroxy-, polymer with 1,1'-methylenebis[isocyanatobenzene]
1-1'-methylenebis[isocyanatobenzene], polymer with 1,2-ethandiamine, methyloxirane and oxirane.

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. Composition/information on ingredients.

3.2. Mixtures.

Contains:

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



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Identification.	Concentration, %	Classification 1272/2008 (CLP).	SCLs
Reaction mass of 4,4'-methylenediphenyldiisocyanate and o-(piscyanatobenzyl)phenyl isocyanate CAS. -	30 - < 60	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. 1 H317	Not applicable.
EC. - INDEX. - Reg. no. 01-2119457015-45-XXXX			
Poly[oxy(methyl-1,2-ethanediyl)],α-hydro- ω-hydroxy-, polymer with 1,1'-methylenebis[isocyanatobenzene] CAS. 39420-98-9	13 - < 30	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. 1 H317	Not applicable.
EC. - INDEX. -			
Methylenediphenyl diisocyanate, isomers and homologues CAS. 9016-87-9	13 - < 30	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. 1 H317	Not applicable.
EC. - INDEX. 615-005-00-9			
4,4'-methylenediphenyl diisocyanate CAS. 101-68-8	7 - < 13	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. 1 H317	Eye Irrit. 2; H319: C \geq 5 % Skin Irrit. 2; H315: C \geq 5 % Resp. Sens. 1; H334: C \geq 0,1 % STOT SE 3; H335: C \geq 5 %
EC. 202-966-0 INDEX. 615-005-00-9 Reg. no. 01-2119457014-47-XXXX			
1-1'-methylenebis[isocyanatobenzene], polymer with 1,2-ethandiamine, methyloxirane and oxirane CAS. 1431134-22-3	13 - < 30	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. 1 H317	Not applicable.
EC. - INDEX. -			

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.



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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.

Specific information on symptoms and effects caused by the product are unknown.

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

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

5.2. Special hazards arising from the substance or mixture.

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products.

5.3. Advice for firefighters.

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

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. If the product is flammable, use explosion-proof equipment. 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. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

**WBPU – PRIMER WB PU****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. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

7.2. Conditions for safe storage, including any incompatibilities.

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. 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.**8.1. Control parameters.**

Regulatory References:

DEU	Deutschland	MAK-und BAT-Werte-Liste 2012
DNK	Danmark	Graensevaerdier per stoffer og materialer
ESP	España	INSHT - Límites de exposición profesional para agentes químicos en España 2015
FRA	France	JORF n°0109 du 10 mai 2012 page 8773 texte n° 102
HUN	Magyarország	50/2011. (XII. 22.) NGM rendelet a munkahelyek kémiai biztonságáról
POL	Polska	ROZPORZĄDZENIE MINISTRA PRACY I POLITYKI SPOŁECZNEJ z dnia 16 grudnia 2011r

Reaction mass of 4,4'-methylenediphenyldiisocyanate and o-(isocyanatobenzyl)phenyl isocyanate

Predicted no-effect concentration - PNEC.

Normal value in fresh water	1	mg/l
Normal value in marine water	0,1	mg/l
Normal value of STP microorganisms	1	mg/l
Normal value for the terrestrial compartment	1	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers.			Effects on workers				
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral.		20 mg/kg bw/d						
Inhalation.	0,05 mg/m3	0,05 mg/m3	0,025 mg/m3	0,025 mg/m3	0,1 mg/m3	0,1 mg/m3	0,05 mg/m3	0,05 mg/m3
Skin.	17,2 mg/cm2	25 mg/kg bw/d			28,7 mg/cm2	50 mg/kg bw/d		

4,4'-methylenediphenyl diisocyanate**Threshold Limit Value.**

Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm

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AGW	DEU	0,05		0,05	
TLV	DNK	0,05	0,005	0,1	0,01
VLA	ESP	0,052	0,005		
VLEP	FRA	0,1	0,01	0,2	0,02
AK	HUN	0,05		0,05	
NDS	POL	0,05		0,2	

Predicted no-effect concentration - PNEC.

Normal value in fresh water	1	mg/l
Normal value in marine water	0,1	mg/l
Normal value for water, intermittent release	10	mg/l
Normal value of STP microorganisms	1	mg/l
Normal value for the terrestrial compartment	1	mg/kg/d

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers.				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral.		20 mg/kg						
Inhalation.	0,05 mg/m3	0,05 mg/m3	0,025 mg/m3	0,025 mg/m3	0,1 mg/m3	0,1 mg/m3	0,05 mg/m3	0,05 mg/m3
Skin.	17,2 mg/cm2	25 mg/kg bw			28,7 mg/cm2	50 mg/kg bw		

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.

SAMPLING METHODS**4,4'-methylenediphenyl diisocyanate**

<http://amcaw.ifa.dguv.de/substance/methoden/007-L-MDI.pdf>

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	liquid
Colour	brown
Odour	acid
Odour threshold.	Not available.
pH.	Not applicable, product is not water based
Melting point / freezing point.	Not available.
Initial boiling point.	Not available.
Boiling range.	Not available.
Flash point.	> 130 °C (closed cup)
Evaporation Rate	Not available.
Flammability of solids and gases	Not available.
Lower flammability limit.	Not available.
Upper flammability limit.	Not available.
Lower explosive limit.	Not available.
Upper explosive limit.	Not available.
Vapour pressure.	Not available.
Vapour density	Not available.
Relative density.	1,16 g/cm ³ @ 20°C
Solubility	Reacts with water and polar solvents, miscible in apolar solvents.
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature.	Not available.
Decomposition temperature.	Not available.
Viscosity	220 – 240 mPa*s @ 25°C
Explosive properties	Not available.
Oxidising properties	Not available.

9.2. Other information.

Information not available.

SECTION 10. Stability and reactivity.**10.1. Reactivity.**

4,4'-methylenediphenyl diisocyanate
May react dangerously if exposed to: water, alcohols, amines, strong bases.

10.2. Chemical stability.

Information not available.

10.3. Possibility of hazardous reactions.

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The product may react violently with water.

10.4. Conditions to avoid.

Avoid overheating. Prevent moisture or water from penetrating inside the containers.

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.

ACUTE TOXICITY.

LC50 (Inhalation - vapours) of the mixture: 223,808 mg/l
LC50 (Inhalation - mists / powders) of the mixture: 11,538 mg/l
LD50 (Oral) of the mixture: Not classified (no significant component).
LD50 (Dermal) of the mixture: Not classified (no significant component).

4,4'-methylenediphenyl diisocyanate
LD50 (Oral) > 10000 mg/kg rat
LD50 (Dermal) > 9400 mg/kg rabbit
LC50 (Inhalation) 1,5 mg/l/4h rat

Methylenediphenyl diisocyanate, isomers and homologues
LD50 (Oral) > 10000 mg/kg rat
LD50 (Dermal) > 9400 mg/kg rabbit
LC50 (Inhalation) 0,31 mg/l/4h rat

Reaction mass of 4,4'-methylenediphenyldiisocyanate and o-(isocyanatobenzyl)phenyl isocyanate
LD50 (Oral) > 10000 mg/kg rat
LD50 (Dermal) > 9400 mg/kg rabbit
LC50 (Inhalation) 0,49 mg/l/4h rat

Poly[oxy(methyl-1,2-ethanediyl)], α -hydro- ω -hydroxy-, polymer with 1,1'-methylenebis[isocyanatobenzene]
LD50 (Oral) > 10000 mg/kg rat
LD50 (Dermal) > 9400 mg/kg rabbit
LC50 (Inhalation) 0,49 mg/l/4h rat

1-1'-methylenebis[isocyanatobenzene], polymer with 1,2-ethandiamine, methyloxirane and oxirane
LD50 (Oral) > 10000 mg/kg rat
LD50 (Dermal) > 9400 mg/kg rabbit

SKIN CORROSION / IRRITATION.

Causes skin irritation.

**WBPU – PRIMER WB PU****SERIOUS EYE DAMAGE / IRRITATION.**

Causes serious eye irritation.

RESPIRATORY OR SKIN SENSITISATION.

Sensitising for the skin.

GERM CELL MUTAGENICITY.

Does not meet the classification criteria for this hazard class.

CARCINOGENICITY.

Suspected of causing cancer.

REPRODUCTIVE TOXICITY.

Does not meet the classification criteria for this hazard class.

STOT - SINGLE EXPOSURE.

May cause respiratory irritation.

STOT - REPEATED EXPOSURE.

May cause damage to organs.

ASPIRATION HAZARD.

Does not meet the classification criteria for this hazard class.

SECTION 12. Ecological information.**12.1. Toxicity.**

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

4,4'-methylenediphenyl

diisocyanate

LC50 - for Fish.

> 1000 mg/l/96h Danio Rerio

EC50 - for Crustacea.

> 1000 Daphnia Magna

EC50 - for Algae / Aquatic
Plants.

> 1640 mg/l/72h Desmodesmus Subspicatus

Chronic NOEC for
Crustacea.

> 10 mg/l (504 h)

Reaction mass of 4,4'-
methylenediphenyldiisocyanate and o-
(isocyanatobenzyl)phenyl
isocyanate

LC50 - for Fish.

> 1000 mg/l/96h fish

EC50 - for Crustacea.

> 1000 mg/l/48h Daphnia sp.

Chronic NOEC for
Crustacea.

> 10 mg/l Daphnia magna, 21 d

1-1'-
methylenebis[isocyanatobenzene], polymer with 1,2-
ethandiamine, methyloxirane
and oxirane.

LC50 - for Fish.

> 1000 mg/l/96h Danio rerio

EC50 - for Crustacea.

> 1000 mg/l/48h Daphnia magna

12.2. Persistence and degradability.

Methylenediphenyl
diisocyanate, isomers and
homologues

NOT rapidly biodegradable.



Reaction mass of 4,4'-methylenediphenyldiisocyanate and o-(isocyanatobenzyl)phenyl isocyanate
NOT rapidly biodegradable.

Poly[oxy(methyl-1,2-ethanediyl)], α -hydro- ω -hydroxy-, polymer with 1,1'-methylenebis[isocyanatobenzene]
NOT rapidly biodegradable.

1-1'-methylenebis[isocyanatobenzene], polymer with 1,2-ethandiamine, methyloxirane and oxirane.
NOT rapidly biodegradable.

12.3. Bioaccumulative potential.

Reaction mass of 4,4'-methylenediphenyldiisocyanate and o-(isocyanatobenzyl)phenyl isocyanate

BCF 200 Cyprinus carpio
Log Pow 4,51 (20°C, pH 7)

Poly[oxy(methyl-1,2-ethanediyl)], α -hydro- ω -hydroxy-, polymer with 1,1'-methylenebis[isocyanatobenzene]

BCF 200 Cyprinus carpio
Log Pow 4,51 (20°C, pH 7)

Metilendifenil diisocianato, isomeri e analoghi

BCF 200 Cyprinus carpio
Log Pow 4,51 (20°C, pH 7)

1-1'-methylenebis[isocyanatobenzene], polymer with 1,2-ethandiamine, methyloxirane and oxirane.

BCF 200 Cyprinus carpio
Log Pow 4,51 (20°C, pH 7)

4,4'-methylenediphenyl diisocyanate

BCF 200 Cyprinus carpio
Log Pow 4,51 (20°C, pH 7)

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.

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.1. UN number.

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 Marpol and the IBC Code.

Information not relevant.

SECTION 15. Regulatory information.



WBPU – PRIMER WB PU

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

Seveso Category - Directive 2012/18/EC: None.

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006.

Product.

Point. 3

Contained substance.

Point. 56 Methylene-diphenyl diisocyanate, isomers and homologues

Point. 56 4,4'-methylene-diphenyl diisocyanate
Reg. no.: 01-2119457014-47-XXXX

Substances in Candidate List (Art. 59 REACH).

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

Substances subject to authorisation (Annex XIV REACH).

None.

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None.

Substances subject to the Rotterdam Convention:

None.

Substances subject to the Stockholm Convention:

None.

Healthcare controls.

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

15.2. Chemical safety assessment.

No chemical safety assessment has been processed for the mixture and the substances it contains.

SECTION 16. Other information.

**WBPU – PRIMER WB PU**

Text of hazard (H) indications 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 - repeated exposure, category 2
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Resp. Sens. 1	Respiratory sensitization, category 1
Skin Sens. 1	Skin sensitization, category 1
H351	Suspected of causing cancer.
H332	Harmful if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317	May cause an allergic skin reaction.
EUH204	Contains isocyanates. May produce an allergic reaction.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

1. Regulation (EU) 1907/2006 (REACH) of the European Parliament
2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament



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- 4. Regulation (EU) 2015/830 of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- The Merck Index. - 10th Edition
- Handling Chemical Safety
- INRS - Fiche Toxicologique (toxicological sheet)
- Patty - Industrial Hygiene and Toxicology
- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
- ECHA website

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.