(de acuerdo con el Reglamento (UE) 2020/878)

STEPSBB1-89.- PUR S60 - REVESTIMIENTO POLIURETANO ALIFÁTICO BLANCO

Fecha de emisión: 26/10/2020 Versión 1

Página 1 de 17 Versión 4 (sustituye a la versión 3) Fecha de revisión: 21/03/2023 Fecha de impresión: 12/03/2024

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND COMPANY.

1.1 Product identifier.

Product name: 89.- PUR S60 - ALIPHATIC POLYURETHANE COATING WHITE

Product code: STEPSBB1

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

Not available.

1.3 Details of the supplier of the safety data sheet.

Company: PINTURAS AYELENSES, S.L. Address: POLÍGONO SAN JOSÉ, S/N

Town: AIELO DE MALFERIT Province: VALENCIA Telephone: 962360292 Fax: 962360601

E-mail: info@pinturaspinay.com Web: www.pinturaspinay.com

1.4 Emergency telephone: 962360292 (Only available during office hours; Monday-Friday; 08:00-18:00)

SECTION 2: IDENTIFICATION OF HAZARDS.

2.1 Classification of the substance or mixture.

According to Regulation (EC) No 1272/2008:

Acute Tox. 4: Harmful if inhaled.

Flam. Liq. 3: Flammable liquids and vapours.

Skin Irrit. 2: Causes skin irritation.

Skin Sens. 1: May cause allergic skin reaction.

2.2 Label elements.

Labelling according to Regulation (EC) No 1272/2008:

Pictograms:

Warning word:

Caution

Hazard statements:

H226 Flammable liquids and vapours.

H315 Causes skin irritation.

H317 May cause allergic skin reaction.

H332 Harmful if inhaled.

Safety precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Do not smoke.

P261 Avoid breathing dust/fume/fume/gas/mist/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection/ear protection/....

P321 Specific treatment required (see ... on this label).

P370+P378 In case of fire: Use external powder or CO2 for extinguishing.

P403+P235 Store in a well-ventilated place. Keep in a cool place.

P501 Dispose of contents/container in accordance with applicable local/national legislation. Directive 2008/98/EC on Waste Management

(de acuerdo con el Reglamento (UE) 2020/878)

STEPSBB1-89.- PUR S60 - REVESTIMIENTO POLIURETANO ALIFÁTICO BLANCO

Fecha de emisión: 26/10/2020 Versión 1

Página 2 de 17 Versión 4 (sustituye a la versión 3) Fecha de revisión: 21/03/2023 Fecha de impresión: 12/03/2024

Supplementary hazard statements:

EUH204 Contains isocyanates. May cause allergic reaction.

Contains: ethylbenzene

xylene

Hexamethylene diisocyanate, oligomers

2.3 Other hazards.

The mixture does not contain substances classified as PBT (Persistent, Bioaccumulative and Toxic). The mixture does not contain substances classified as vPvB (very Persistent and very Bioaccumulative). The mixture does not contain substances with endocrine disrupting properties.

Under normal conditions of use and in its original form, the product has no other adverse effects on health and the environment.

SECTION 3: COMPOSITION/INFORMATION ON THE COMPONENTS.

3.1 Substances.

Not Applicable.

3.2 Mixtures.

Substances which represent a health or environmental hazard according to Regulation (EC) No. 1272/2008, are assigned a Community workplace exposure limit, are classified as PBT/vPvB or are included in the Candidate List:

				(*)Classification - Regulation 1272/2008	
Identifiers	Identifiers Name		Classification	Specific Concentration Limits and Acute Toxicity Estimation	
N. Index: 601-022- 00-9 N. CAS: 1330-20-7 N. CE: 215-535-7 N. register: 01- 2119488216-32-XXXX	[1] [2] xylene	15 - 25 %	Acute Tox. 4 *, H312 - Acute Tox. 4 *, H332 - Flam. Liq. 3, H226 - Skin Irrit. 2, H315	-	
N. CAS: 13463-67-7 N. CE: 236-675-5 N. register: 01- 2119489379-17-XXXX	[2] Titanium dioxide	10 - 25 %	-	-	
N. CAS: 28182-81-2 N. register: 01- 2119485796-17-XXXX	hexamethylene diisocyanate, oligomers	10 - 20 %	Acute Tox. 4, H332 - Skin Sens. 1, H317 - STOT SE 3, H335	1	
N. Index: 607-195- 00-7 N. CAS: 108-65-6 N. CE: 203-603-9 N. register: 01- 2119475791-29-XXXX	[1] [2] 2-methoxy-1-methylethyl acetate	1 - 20 %	Flam. Liq. 3, H226 - STOT SE 3, H336	-	
N. Index: 601-023- 00-4 N. CAS: 100-41-4 N. CE: 202-849-4 N. register: 01- 2119489370-35-XXXX	[1] [2] ethylbenzene	1 - 10 %	Acute Tox. 4 *, H332 - Asp. Tox. 1, H304 - Flam. Liq. 2, H225 - STOT RE 2, H373(auditory organs)	-	

(de acuerdo con el Reglamento (UE) 2020/878)

STEPSBB1-89.- PUR S60 - REVESTIMIENTO POLIURETANO ALIFÁTICO BLANCO

Versión 1 Fecha de emisión: 26/10/2020 Página 3 de 17 Versión 4 (sustituye a la versión 3) Fecha de revisión: 21/03/2023 Fecha de impresión: 12/03/2024

	,			
N. Index: 606-005- 00-X N. CAS: 108-83-8 N. CE: 203-620-1 N. register: 01- 2119474441-41-XXXX	[2] 2,6-dimethylheptan-4-one, diisobutylketone	0 - 10 %	Flam. Liq. 3, H226 - STOT SE 3, H335	STOT SE 3, H335: C ≥ 10 %
N. Index: 615-011- 00-1 N. CAS: 822-06-0 N. CE: 212-485-8 N. register: 01- 2119457571-37-XXXX	[2] hexamethylene di-isocyanate	0 - 0.5 %	Acute Tox. 3 *, H331 - Eye Irrit. 2, H319 - Resp. Sens. 1, H334 - Skin Irrit. 2, H315 - Skin Sens. 1, H317 - STOT SE 3, H335	Resp. Sens. 1, H334: C ≥ 0,5 % Skin Sens. 1, H317: C ≥ 0,5 %
N. Index: 603-004- 00-6 N. CAS: 71-36-3 N. CE: 200-751-6 N. register 01- 2119484630-38-XXXX	[2] butan-1-ol	0 - 1 %	Acute Tox. 4 *, H302 - Eye Dam. 1, H318 - Flam. Liq. 3, H226 - Skin Irrit. 2, H315 - STOT SE 3, H335 - STOT SE 3, H336	-

^(*) The full text of the H-phrases is detailed in section 16 of this Safety Data Sheet.

SECTION 4: FIRST AID.

IRRITANT MIXTURE. Repeated or prolonged contact with skin or mucous membranes may cause irritating symptoms such as redness, blistering or dermatitis. Some of the symptoms may not be immediate. Allergic skin reactions may occur.

4.1 Description of first aid.

In cases of doubt, or when symptoms of discomfort persist, seek medical attention. Never give anything by mouth to an unconscious person.

Inhalation.

Place casualty in fresh air, keep warm and at rest, if breathing is irregular or stops, give artificial respiration. Do not administer anything by mouth. If unconscious, place in a suitable position and seek medical help. It is recommended that first aid providers wear personal protective equipment (see section 8).

Eye contact.

Remove contact lenses, if present and easy to do. Flush eyes thoroughly with clean, fresh water for at least 10 minutes, pulling up the eyelids and seek medical attention.

Skin contact.

Remove contaminated clothing. Wash skin vigorously with soap and water or a suitable skin cleanser. NEVER use solvents or thinners.

Ingestion.

If accidentally swallowed, seek medical attention immediately. Keep at rest. NEVER induce vomiting.

4.2 Most important symptoms and effects, acute and delayed.

^{*} See Regulation (EC) No 1272/2008, Annex VI, section 1.2.

^[1] Substance with an EU workplace exposure limit (see section 8.1).

^[2] Substance with national workplace exposure limit (see section 8.1).

(de acuerdo con el Reglamento (UE) 2020/878)

STEPSBB1-89.- PUR S60 - REVESTIMIENTO POLIURETANO ALIFÁTICO BLANCO

Versión 1 Fecha de emisión: 26/10/2020

Versión 4 (sustituye a la versión 3) Fecha de revisión: 21/03/2023 Fecha de impresión: 12/03/2024

Irritant, repeated or prolonged contact with skin or mucous membranes may cause redness, blistering or dermatitis, inhalation of spray mist or airborne particles may cause respiratory tract irritation, some symptoms may not be immediate.

Harmful product, prolonged exposure by inhalation may cause anaesthetic effects and the need for immediate medical attention.

May cause allergic reaction, dermatitis, redness or swelling of the skin.

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

In case of doubt, or when symptoms of discomfort persist, seek medical attention. Never give anything by mouth to an unconscious person. Do not induce vomiting. If vomiting occurs, clear the airway.

SECTION 5: FIRE FIGHTING MEASURES.

Flammable product, the following measures should be taken to avoid risks in case of fire:

5.1 Extinguishing media.

Suitable extinguishing media:

Extinguishing powder or CO2. In case of more serious fires also alcohol-resistant foam and water spray.

Unsuitable extinguishing media:

Do not use direct water jet for extinguishing. Do not use water or foam as extinguishing agent when electrical voltage is present.

5.2 Special hazards arising from the substance or mixture.

Special hazards.

Exposure to combustion or decomposition products may be harmful to health.

During a fire and depending on the extent of the fire, the following may be produced:

- Carbon monoxide, carbon dioxide
- Flammable vapours or gases.

5.3 Recommendations for fire-fighting personnel.

Cool tanks, cisterns or containers near the source of heat or fire with water. Take wind direction into account. Prevent products used in fire-fighting from entering drains, sewers or watercourses. Follow instructions described in fire emergency and evacuation plan(s) if available.

Fire protection equipment.

Depending on the size of the fire, heat protection suits, self-contained breathing apparatus, gloves, goggles or face masks and boots may be required. During extinguishing and depending on the size and proximity to the fire, additional protective equipment such as chemical protective gloves, heat reflective suits or gas-tight suits may be necessary.

SECTION 6: ACCIDENTAL RELEASE MEASURES.

6.1 Personal precautions, protective equipment and emergency procedures.

Eliminate potential ignition points and electrostatic charges, ventilate area. Do not smoke. Avoid breathing vapours. For exposure control and personal protective measures, see section 8.

6.2 Environmental precautions.

Product not classified as dangerous for the environment, avoid as far as possible any spillage.

Página 4 de 17

(de acuerdo con el Reglamento (UE) 2020/878)

STEPSBB1-89.- PUR S60 - REVESTIMIENTO POLIURETANO ALIFÁTICO BLANCO

Versión 1 Fecha de emisión: 26/10/2020

Versión 4 (sustituye a la versión 3) Fecha de revisión: 21/03/2023 Fecha de impresión: 12/03/2024

6.3 Methods and material for containment and cleaning up.

Contain and collect spillage with inert absorbent material (earth, sand, vermiculite, diatomaceous earth, etc.) and clean up immediately with a suitable decontaminant.

Dispose of waste in closed containers suitable for disposal in accordance with local and national regulations (see section 13).

6.4 Reference to other sections.

For exposure control and personal protective measures, see section 8.

For waste disposal, follow recommendations in section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling.

Vapours are heavier than air and may spread on the ground. May form explosive mixtures with air. Avoid creating flammable or explosive vapour concentrations in air; avoid vapour concentrations above exposure limits during work. The product should only be used in areas where unprotected flames and other ignition points have been eliminated. Electrical equipment must be protected according to appropriate standards.

The product can become electrostatically charged: always use earthed sockets when transferring the product. Plant operators should wear antistatic footwear and clothing, and floors should be conductive.

Keep container tightly closed, isolated from sources of heat, sparks and fire. Do not use tools that can produce sparks.

Avoid contact of the product with skin and eyes. Avoid inhalation of vapour and mists produced during spraying. For personal protection, see section 8.

Smoking, eating and drinking must be prohibited in the application area.

Comply with occupational health and safety legislation.

Never use pressure to empty containers, they are not pressure resistant containers. Keep the product in containers made of material identical to the original.

7.2 Conditions for safe storage, including any incompatibilities.

Store in accordance with local legislation. Observe label instructions. Store containers between 5 and 25°C, in a dry, well-ventilated place, away from heat sources and direct sunlight. Keep away from sources of ignition. Keep away from oxidizing agents and strongly acidic or alkaline materials. Do not smoke. Keep away from unauthorised persons. After opening, containers should be carefully resealed and placed upright to avoid spillage.

The product is not affected by Directive 2012/18/EU (SEVESO III).

7.3 Specific end use(s).

Not available.

SECTION 8: EXPOSURE CONTROLS/INDIVIDUAL PROTECTION.

8.1 Control parameters.

Occupational exposure limit for:

Name	N. CAS	Country	Limit value	ppm	mg/m³
		Casia [1]	Eight hours	50(dermal route, sensitising)	221(dermal route, sensitising)
xylene	1330-20-7	Spain [1]	Short term	100(dermal route, sensitising)	442(dermal route, sensitising)
		European Union [2]	Eight hours	50 (skin)	221 (skin)
			Short term	100 (skin)	442 (skin)
Titanium dioxide	13463-67-7	Spain [1]	Eight hours		10
Titanium dioxide	13403-07-7		Short term		
2 months and 1 months dethad a column	108-65-6	Spain [1]	Eight hours	50(Dermal route)	275(Dermal route)
2-methoxy-1-methylethyl acetate	108-05-6		Short term	100(Dermal route)	550(Dermal route)

Página 5 de 17

(de acuerdo con el Reglamento (UE) 2020/878)

STEPSBB1-89.- PUR S60 - REVESTIMIENTO POLIURETANO ALIFÁTICO BLANCO

Fecha de emisión: 26/10/2020 Versión 1

Página 6 de 17 Versión 4 (sustituye a la versión 3) Fecha de revisión: 21/03/2023 Fecha de impresión: 12/03/2024

		European	Eight hours	50 (skin)	275 (skin)
		Union [2]	Short term	100 (skin)	550 (skin)
		Capia [1]	Eight hours	100(Dermal route)	441(Dermal route)
Ethylbenzene	100-41-4	Spain [1]	Short term	200(Dermal route)	884(Dermal route)
		European	Eight hours	100 (skin)	442 (skin)
		Union [2]	Short term	200 (skin)	884 (skin)
2,6- dimethylheptan-4-one,	108-83-8	Cnain [1]	Eight hours	25	148
diisobutylketone	100-03-0	Spain [1]	Short term		
hexamethylene di-isocyanate	822-06-0	Spain [1]	Eight hours	0,005(Sensibiliza nte)	0,035(Sensibiliz ante)
			Short term		
butan-1-ol	71-36-3	Spain [1]	Eight hours	20	61
טענמוו-1-0ו	/1-30-3	Spain [1]	Short term	50	154

Valores límite de exposición biológicos para:

Name	N. CAS	Country	Biological indicator	VLB	Sampling time
Xylene	1330-20-7	Spain [1]	Urine methylhippuric acids	1 g/g creatinine	End of the working day
Ethylbenzene	100-41-4	Spain [1]	Sum of mandelic acid and phenylglyoxylic acid in urine	700 mg/g creatinine	End of the working day

^[1] According to the list of Environmental Occupational Exposure Limit Values adopted by the National Institute for Safety and Health at Work (INSST) for 2022.

Concentration levels DNEL/DMEL:

Name	DNEL/DMEL	Туре	Value
Xylene N. CAS: 1330-20-7 N. CE: 215-535-7	DNEL (Plant operators)	Inhalation, Chronic, Systemic effects	77 (mg/m³)
Titanium dioxide N. CAS: 13463-67-7 N. CE: 236-675-5	DNEL (Plant operators)	Inhalation, Chronic, Local effects	10 (mg/m³)
	DNEL (Plant operators)	Inhalation, Chronic, Systemic effects	275 (mg/m³)
	DNEL (Consumidores)	Inhalation, Chronic, Systemic effects	33 (mg/m³)
2-methoxy-1-methylethyl acetate N. CAS: 108-65-6	DNEL (Plant operators)	Cutaneous, Chronic, Systemic effects	153,5 (mg/kg bw/day)
N. CE: 203-603-9	DNEL (Consumers)	Cutaneous, Chronic, Systemic effects	54,8 (mg/kg bw/day)
	DNEL (Consumers)	Oral, Chronic, Systemic effects	1,67 (mg/kg bw/day)
Ethylbenzene N. CAS: 100-41-4 N. CE: 202-849-4	DNEL (Plant operators)	Inhalation, Chronic, Systemic effects	77 (mg/m³)
2,6-dimethylheptan-4-one, diisobutylketone N. CAS: 108-83-8	DNEL (Plant operators)	Inhalation, Chronic, Local effects	290 (mg/m³)
N. CE: 203-620-1	DNEL (Plant operators)	Inhalation, Chronic, Systemic effects	479 (mg/m³)

^[2] According both Binding Occupational Exposure Limits (BOELVs) and Indicative Occupational Exposure Limits (IOELVs) adopted by Scientific Committee for Occupational Exposure Limits to Chemical Agents (SCOEL).

(de acuerdo con el Reglamento (UE) 2020/878)

STEPSBB1-89.- PUR S60 - REVESTIMIENTO POLIURETANO ALIFÁTICO BLANCO

Versión 1 Fecha de emisión: 26/10/2020 Página 7 de 17 Versión 4 (sustituye a la versión 3) Fecha de revisión: 21/03/2023 Fecha de impresión: 12/03/2024

hexamethylene di-isocyanate	DNEL (Plant operators)	Inhalation, Chronic, Local effects	0,035 (mg/m³)
N. CAS: 822-06-0 N. CE: 212-485-8	DNEL (Plant operators)	Inhalation, Chronic, Systemic effects	0,035 (mg/m³)
	DNEL (Plant operators)	Inhalation, Chronic, Local effects	310 (mg/m³)
butan-1-ol N. CAS: 71-36-3	DNEL (Consumers)	Inhalation, Chronic, Local effects	55 (mg/m³)
N. CE: 200-751-6	DNEL (Consumers)	Oral, Chronic, Systemic effects	3,125 (mg/kg bw/day)

DNEL: Derived No Effect Level, level of exposure to the substance below which no adverse effects are expected. DMEL: Derived Minimal Effect Level, exposure level corresponding to a low risk, which should be considered as a minimum tolerable risk.

PNEC concentration levels:

Name	Details	Value
	water (fresh water)	0,635 (mg/L)
	water (sea water)	0,0635
		(mg/L)
	water (intermittent release)	6,35 (mg/L)
2-methoxy-1-methylethyl acetate	Waste water treatment plant	100 (mg/L)
N. CAS: 108-65-6	sediment (fresh water)	3,29 (mg/kg
N. CE: 203-603-9		sediment dw)
	sedimento (sea water)	0,329 (mg/kg
		sediment dw)
	soil	0,29 (mg/kg
		soil dw)
	water (fresh water)	0,082 (mg/L)
	water (sea water)	0,0082
		(mg/L)
	water (intermittent release)	2,25 (mg/L)
butan-1-ol	Waste water treatment plant	2476 (mg/L)
N. CAS: 71-36-3	sediment (fresh water)	0,178 (mg/kg
N. CE: 200-751-6		sediment dw)
W. CE. 200 751 0	sediment (sea water)	0,0178
		(mg/kg
		sediment dw)
	soil	0,015 (mg/kg
		soil dw)

PNEC: Predicted No Effect Concentration, concentration of the substance below which no adverse effects on environmental behaviour are expected.

8.2 Exposure controls.

Technical measures:

Provide adequate ventilation, which can be achieved by good local exhaust-ventilation and a good general exhaust system.

Concentration:	100 %
Uses:	
Respiratory equip	ment:
If the recommended	technical measures are complied with, no personal protective equipment is necessary.
Hand protection:	
PPE:	Work gloves
Characteristics:	CE marking Category I.
CEN regulations	EN 374-1, En 374-2, EN 374-3, EN 420
Maintenance:	Must be stored in a dry place, away from possible sources of heat. Exposure to sunlight must be avoided as far as possible. No modifications shall be made to the gloves that could alter their resistance, nor shall paints, solvents or adhesives be applied.
Observations:	Gloves must be the correct size and fit the hand without being too loose or too tight. They should always be worn with clean, dry hands.

(de acuerdo con el Reglamento (UE) 2020/878)

STEPSBB1-89.- PUR S60 - REVESTIMIENTO POLIURETANO ALIFÁTICO BLANCO

Versión 1 Fecha de emisión: 26/10/2020

Versión 4 (sustituye a la versión 3) Fecha de revisión: 21/03/2023 Fecha de impresión: 12/03/2024

Material:	PVC (Polyvinyl chloride) Penetration time (min.): A80 Material thickness (mm):				
Eye protection:					
PPE:	Face screen				
Characteristics:	CE Mark Category II. Eye and face protector against liquid splashes.				
CEN Regulations:	EN 165, EN 166, EN 167, EN 168				
Maintenance:	Visibility through the eyepieces must be optimal and the eyepieces must be cleaned daily, the shields must be disinfected regularly according to the manufacturer's instructions. Care shall be taken to ensure that moving parts are smooth-running.				
Observations:	Face shields must have a field of vision with a centreline dimension of at least 150 mm vertically when attached to the frame.				
Protección de la	piel:				
PPE:	Protective clothing with antistatic properties				
Characteristics:	CE marking Category II. Protective clothing must not be tight or loose-fitting so as not to interfere with the wearer's movements.				
CEN Regulations:	EN 340, EN 1149-1, EN 1149-2, EN 1149-3, EN 1149-5				
Maintenance:	Washing and care instructions provided by the manufacturer must be followed to ensure consistent protection.				
Observations:	Protective clothing should provide a level of comfort consistent with the level of protection it is intended to provide against the hazard it protects against, with the environmental conditions, the level of activity of the wearer and the intended duration of use.				
PPE:	Protective footwear with antistatic properties				
Characteristics:	CE marking Category II.				
CEN Regulations:	EN ISO 13287, EN ISO 20344, EN ISO 20346				
Maintenance:	Footwear must be regularly inspected and if it is in poor condition, it must be discontinued and replaced.				
Observations:	Wearing comfort and acceptability are factors that are assessed very differently from one individual to another. It is therefore advisable to try different models of footwear and, if possible, different widths.				

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES.

9.1 Information on basic physical and chemical properties.

Physical state: Liquid

Colour: Not applicable/Not available due to the nature/properties of the product. Odour: Not applicable/Not available due to the nature/properties of the product.

Olfactory threshold: Not applicable/Not available due to the nature/properties of the product. Melting point: Not applicable/Not available due to the nature/properties of the product. Freezing point: Not applicable/Not available due to the nature/properties of the product.

Boiling point/Boiling range: Not applicable/Not available due to the nature/properties of the product.

Flammability: Not applicable/Not available due to the nature/properties of the product.

Lower explosion limit: Not applicable/Not available due to the nature/properties of the product. Upper explosion limit: Not applicable/Not available due to the nature/properties of the product.

Flash point: 36 °C

Auto-ignition temperature: Not applicable/Not available due to the nature/properties of the product. Decomposition temperature: Not applicable/Not available due to the nature/properties of the product.

pH: Not applicable/Not available due to the nature/properties of the product.

Kinematic viscosity: Not applicable/Not available due to the nature/properties of the product.

Solubility: Not applicable/Not available due to the nature/properties of the product.

Water solubility: Not applicable/Not available due to the nature/properties of the product. Lipid solubility: Not applicable/Not available due to the nature/properties of the product.

Partition coefficient (n-octanol/water) (logarithmic value): Not applicable/Not available due to the nature/properties of the product.

. Vapour pressure: Not applicable/Not available due to the nature/properties of the product. Absolute density: Not applicable/Not available due to the nature/properties of the product.

Relative density: 1.31-1.37

Vapour density: Not applicable/Not available due to the nature/properties of the product. Particulate characteristics: Not applicable/Not available due to nature/properties of the product.

9.2 Other data

Viscosity: Not applicable/Not available due to the nature/properties of the product.

Explosive properties: Not applicable/Not available due to the nature/properties of the product.

Página 8 de 17

(de acuerdo con el Reglamento (UE) 2020/878)

STEPSBB1-89.- PUR S60 - REVESTIMIENTO POLIURETANO ALIFÁTICO BLANCO

Versión 1 Fecha de emisión: 26/10/2020

Versión 4 (sustituye a la versión 3) Fecha de revisión: 21/03/2023 Fecha de impresión: 12/03/2024

Oxidising properties: Not applicable/Not available due to the nature/properties of the product.

Drop point: Not applicable/Not available due to the nature/properties of the product. Scintillation: Not applicable/Not available due to the nature/properties of the product. Solids %: Not applicable/Not available due to the nature/properties of the product.

SECTION 10: STABILITY AND REACTIVITY.

10.1 Reactivity.

Under storage conditions, no hazardous reactions occur.

10.2 Chemical stability.

Stable under recommended handling and storage conditions (see section 7).

10.3 Possibility of hazardous reactions.

Flammable liquids and vapours.

10.4 Conditions to avoid.

Avoid the following conditions:

- High temperature.
- Static discharge.
- Contact with incompatible materials.
- Avoid temperatures close to flash point, do not heat closed containers. Avoid direct sunlight and heating, ignition hazard may occur.

10.5 Incompatible materials.

Avoid the following materials:

- Explosive materials.
- Toxic materials.
- Oxidising substances.

10.6 Hazardous decomposition products.

Hazardous decomposition products such as carbon monoxide and dioxide, fumes and oxides of nitrogen may be generated in case of fire

SECTION 11: TOXICOLOGICAL INFORMATION.

IRRITANT MIXTURE. Repeated or prolonged contact with skin or mucous membranes may cause irritating symptoms such as redness, blistering or dermatitis. Some of the symptoms may not be immediate. Allergic skin reactions may occur.

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008.

Repeated or prolonged contact with the product may cause defatting of the skin, resulting in non-allergic contact dermatitis and absorption of the product through the skin.

Exposure to vapour concentrations of solvent components above the occupational exposure limit can have negative health effects, e.g. irritation of the mucous membranes and respiratory system, on the liver, kidneys and central nervous system. Symptoms include headache, dizziness, fatique, muscle weakness, drowsiness and, in extreme cases, loss of consciousness.

Based on the properties of isocyanates and taking into account existing technical data on similar products, it is concluded that this product may cause acute irritation and/or sensitisation of the respiratory system, resulting in asthmatic status, difficult breathing and chest pressure. Consequently, sensitised persons may show asthmatic symptoms when exposed to atmospheres containing concentrations below the exposure level. Repeated exposure may lead to chronic respiratory diseases.

Toxicological information on substances present in the composition.

Name		Acute toxicity			
		Туре	Test	Species	Value
		Oral	LD50	Rat	4300 mg/kg bw [1]
xylene			[1] AMA /	Archives of Indu	strial Health. Vol. 14, Pg. 387, 1956
			LD50	Rabbit	> 1700 mg/kg bw [1]
		Skin	[1] Raw Material Data Handbook, Vol.1: Organic Solvents, 1974. Vol. 1, Pg. 123, 1974		
			LC50	Rat	21,7 mg/l/4 h [1]
N. CAS: 1330-20-7	N. CE: 215-535-7	Inhalation		Material Data Ha . 1, Pg. 123, 193	ndbook, Vol.1: Organic Solvents, 74
2-methoxy-1-methyle	thyl acetate	Oral	LD50	Rat	6190 mg/kg bw [1]

Página 9 de 17

(de acuerdo con el Reglamento (UE) 2020/878)

STEPSBB1-89.- PUR S60 - REVESTIMIENTO POLIURETANO ALIFÁTICO BLANCO

Versión 1 Fecha de emisión: 26/10/2020 Página 10 de 17 Versión 4 (sustituye a la versión 3) Fecha de revisión: 21/03/2023 Fecha de impresión: 12/03/2024

			[4] 6	1 1005	0500 0 11 11 404 (4 1 0 1
			Toxicity)		OECD Guideline 401 (Acute Oral
		Skin	LD50	Rabbit	>5000 mg/kg bw [1]
		JAIII	[1] Dow	Chemical Compa	iny Reports. Vol. MSD-1582
			LC0	Rat	>4345 ppm (6 h) [1]
N. CAS: 108-65-6	N. CE: 203-603-9	Inhalation		y report, 1980. O n Toxicity).	ECD Guideline 403 (Acute
			LD50	Rat	3500 mg/kg bw [1]
		Oral	[1] AMA	Archives of Indu	strial Health. Vol. 14, Pg. 387, 1956
ethylbenzene		Claire	LD50	Rabbit	15400 mg/kg bw [1]
		Skin	[1] Food	and Cosmetics 1	Гохісоlogy. Vol. 13, Pg. 803, 1975
N. CAS: 100-41-4	N. CE: 202-849-4	Inhalation			
			LD50	Rat	4360 mg/kg bw [1]
		Oral		n Carbide Corp. I lo.14-73. Export,	Bushy Run Research Center, Project PA. 1951.
butan-1-ol			LD50	Rabbit	3402 mg/kg bw [1]
		Skin		n Carbide Corp. E lo.14-73. Export,	Bushy Run Research Center, Project PA. 1951.
			LC50	Rat	7500 ppm (8 h) [1]
N. CAS: 71-36-3	N. CE: 200-751-6	Inhalation	1	n Carbide Corp. E lo.14-73. Export,	Bushy Run Research Center, Project PA. 1951.

(a) acute toxicity;

Product classified:

Acute Inhalation Toxicity, Category 4: Harmful if inhaled.

Acute Toxicity Estimate (ATE):

Mixtures:

ATE (Cutaneous) = 3,276 mg/kg

ATE (Inhalation) = 18 mg/l/4 h (Vapours)

(b) skin corrosion or irritation;

Product classified:

Skin irritant, Category 2: Causes skin irritation.

(c) Serious eye damage/eye irritation;

Based on available data, the classification criteria are not met.

(d) Respiratory or skin sensitisation;

Product classified:

Skin sensitiser, Category 1: May cause allergic skin reaction.

- (e) germ cell mutagenicity; Datos no concluyentes para la clasificación.
- (f) carcinogenicity;

Inconclusive data for classification.

(g) reproductive toxicity;

Data inconclusive for classification.

- (h) specific target organ toxicity (STOT) single exposure; Based on available data, the classification criteria are not met.
- (i) Specific target organ toxicity (STOT) repeated exposure; Based on available data, the classification criteria are not met.

(de acuerdo con el Reglamento (UE) 2020/878)

STEPSBB1-89.- PUR S60 - REVESTIMIENTO POLIURETANO ALIFÁTICO BLANCO

Versión 1 Fecha de emisión: 26/10/2020 Página 11 de 17 Versión 4 (sustituye a la versión 3) Fecha de revisión: 21/03/2023 Fecha de impresión: 12/03/2024

(j) aspiration hazard;

Based on available data, the classification criteria are not met.

11.2 Information related to other hazards.

Endocrine disrupting properties.

This product does not contain any components with endocrine disrupting properties that have an effect on human health. Other information.

No information on other adverse health effects is available.

SECTION 12: ECOLOGICAL INFORMATION.

12.1 Toxicity.

Name	Ecotoxicity					
Name	Туре	Test	Species	Value		
	Fish	LC50 Fish 15,7 mg/l (96 h) [1] [1] Bailey, H.C., D.H.W. Liu, and H.A. Javitz 1985. Time/Toxicity Relationships in Short-Term Static, Dynamic, and Plug-Flow Bioassays. In: R.C.Bahner and D.J.Hansen (Eds.), Aquatic Toxicology and Hazard Assessment, 8th Symposium, ASTM STP 891, Philadelphia, PA:193-212				
xylene	Aquatic invertebrates	LC50 Crustacean 8,5 mg/l (48 h) [1] [1] Tatem, H.E., B.A. Cox, and J.W. Anderson 1978. The Toxicity of Oils and Petroleum Hydrocarbons to Estuarine Crustaceans. Estuar.Coast.Mar.Sci. 6(4):365-373. Tatem, H.E. 1975. The Toxicity and Physiological Effects of Oil and Petroleum Hydrocarbons on Estuarine Grass Shrimp Palaemonetes pugio (Holthuis). Ph.D.Thesis, Texas A&M University, College Station, TX:133 p				
N. CAS: 1330-20-7 N. CE: 215-535-7	Aquatic plants					
2-methoxy-1-methylethyl acetate	Fish	LC50	Oryzias latipes nment Agency of Japa	100 mg/L (96 h) [1]		
	Aquatic invertebrates	EC50 Dafnia magna 407 mg/L (48 h) [1] [1] Environment Agency of Japan (1998)				
	Aquatic plants	EC50	Selenastrum capricornutum (Pseudokirchnerell a subcapitata)	>1000 mg/L (72 h) [1]		
N. CAS: 108-65-6 N. CE: 203-603-9		[1] Environment Agency of Japan (1998)				
ethylbenzene	Fish	LC50 Fish 80 mg/l (96 h) [1] [1] Mayer, F.L.Jr., and M.R. Ellersieck 1986. Manual of Acute Toxicity: Interpretation and Data Base for 410 Chemicals and 66 Species of Freshwater Animals. Resour.Publ.No.160, U.S.Dep.Interior, Fish Wildl.Serv., Washington, DC:505 p. (USGS Data File)				
COTYDOTZCIE	Aquatic invertebrates Aquatic plants	LC50 Crustacean 16,2 mg/l (48 h) [1] [1] MacLean, M.M., and K.G. Doe 1989. The Comparative Toxicity of Crude and Refined Oils to Daphnia magna and Artemia. Environment Canada, EE-111, Dartmouth, Nova Scotia :64 p EC50 Algae 5 mg/l (72 h) [1]				

(de acuerdo con el Reglamento (UE) 2020/878)

STEPSBB1-89.- PUR S60 - REVESTIMIENTO POLIURETANO ALIFÁTICO BLANCO

Versión 1 Fecha de emisión: 26/10/2020 Página 12 de 17 Versión 4 (sustituye a la versión 3) Fecha de revisión: 21/03/2023 Fecha de impresión: 12/03/2024

N. CAS: 100-41-4	N. CE: 202-849-4		[1] Galassi, S., M. Mingazzini, L. Vigano, D. Cesareo, and M.L. Tosato 1988. Approaches to Modeling Toxic Responses of Aquatic Organisms to Aromatic Hydrocarbons. Ecotoxicol.Environ.Saf. 16(2):158-169. Masten, L.W., R.L. Boeri, and J.D. Walker 1994. Stategies Employed to Determine the Acute Aquatic Toxicity of Ethyl Benzene, a Highly Volatile, Poorly Water-Soluble Chemical. Ecotoxicol.Environ.Saf. 27(3):335-348		
			LC50 Pimephales promelas 1376 mg/L (96 h) [1]		
		Fish	[1] Wong, D.C.L, P.B. Dorn, and J.P. Salanitro. 1998. Aquatic Toxicity of Four Oxy-Solvents. Equilon Enterprises, LLC Technical Information Record WTC-3520.		
butan 1 al			EC50 Dafnia magna 1328 mg/L (48 h) [1]		
butan-1-ol		Aquatic invertebrates	[1] Wong, D.C.L, P.B. Dorn, and J.P. Salanitro. 1998. Aquatic Toxicity of Four Oxy-Solvents. Equilon Enterprises, LLC Technical Information Record WTC-3520.		
		Aquatic plants	Selenastrum capricornutum (Pseudokirchnerell a subcapitata) 717 mg/L (96 h) [1]		
N. CAS: 71-36-3	N. CE: 200-751-6		[1] Wong, D.C.L, P.B. Dorn, and J.P. Salanitro. 1998. Aquatic Toxicity of Four Oxy-Solvents. Equilon Enterprises, LLC Technical Information Record WTC-3520.		

12.2 Persistence and degradability.

No information on the biodegradability of the substances present is available.

No information is available on the degradability of the substances present.

No information is available on the persistence and degradability of the product.

12.3 Bioaccumulative potential.

Information on bioaccumulation of the substances present

Name		Bioaccumulation			
		Log Kow	BCF	NOECs	Level
ethylbenzene		2.15			Madayata
N. CAS: 100-41-4	N. CE: 202-849-4	3,15	-	-	Moderate
2,6-dimethylheptan-4-one, diisobutylketone		2.56			
N. CAS: 108-83-8	N. CE: 203-620-1	2,56	-	-	Low
butan-1-ol		0.04			VI
N. CAS: 71-36-3	N. CE: 200-751-6	0,84	-	-	Very low

12.4 Mobility in soil.

No information on mobility in soil is available.

The product must not be allowed to enter sewers or watercourses.

Avoid penetration into the soil.

12.5 Results of PBT and vPvBvB assessment.

No information on PBT and vPvB assessment of the product is available.

12.6 Endocrine disrupting properties.

This product does not contain components with endocrine disrupting properties on the environment.

(de acuerdo con el Reglamento (UE) 2020/878)

STEPSBB1-89.- PUR S60 - REVESTIMIENTO POLIURETANO ALIFÁTICO BLANCO

Fecha de emisión: 26/10/2020 Versión 1

Página 13 de 17 Versión 4 (sustituye a la versión 3) Fecha de revisión: 21/03/2023 Fecha de impresión: 12/03/2024

12.7 Other adverse effects.

No information on other adverse effects on the environment is available.

SECTION 13: DISPOSAL CONSIDERATIONS.

13.1 Waste treatment methods.

No discharge into sewers or watercourses. Waste and empty containers must be handled and disposed of in accordance with local/national legislation.

Follow the provisions of Directive 2008/98/EC regarding waste management.

SECTION 14: TRANSPORT INFORMATION.

Transport according to ADR/TPC for road transport, RID for rail, IMDG for sea and ICAO/IATA for air transport.

Land: Road transport: ADR, Rail transport: RID.

Transport documentation: Waybill and Written Instructions.

Sea: Transport by ship: IMDG.

Transport documentation: Bill of lading. Air: Air transport: IATA/ICAO. Transport document: Air waybill.

14.1 UN Number or ID Number.

UN NO: UN1263

14.2 United Nations proper shipping name.

Description:

ADR/RID: UN 1263, PAINT PRODUCTS, 3, GE III, (D/E) IMDG: UN 1263, PAINT PRODUCTS, 3, GE/E III ICAO/IATA: UN 1263, PAINT PRODUCTS, 3, GE III

14.3 Transport hazard class(es).

Class(es): 3

14.4 Packing group.

Packaging group: III

14.5 Environmental hazards.

Marine pollutant: No

Transport by ship, FEm - Emergency sheets (F - Fire, S - Spillage): F-E,S-E

14.6 Special precautions for user.

Labels: 3



Danger number: 30 ADR limited quantity: 5 L IMDG limited quantity: 5 L ICAO limited quantity: 10 L

Provisions regarding carriage in bulk according to ADR: Not allowed for carriage in bulk according to ADR.

Proceed according to section 6.

(de acuerdo con el Reglamento (UE) 2020/878)

STEPSBB1-89.- PUR S60 - REVESTIMIENTO POLIURETANO ALIFÁTICO BLANCO

Fecha de emisión: 26/10/2020 Versión 1

Página 14 de 17 Versión 4 (sustituye a la versión 3) Fecha de revisión: 21/03/2023 Fecha de impresión: 12/03/2024

14.7 Carriage by sea in bulk under IMO instruments.

The product is not affected by carriage in bulk on ships.

SECTION 15: REGULATORY INFORMATION

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

The product is not affected by Regulation (EC) No 1005/2009 of the European Parliament and of the Council of 16 September 2009 on substances that deplete the ozone layer.

Volatile organic compound (VOC)

Product subcategory (Directive 2004/42/EC): E - Special finishes (All types)

Stage I* (as of 01/01/2007): 840 g/l Stage II* (as from 01/01/2010): 840 g/l

(*) g/l ready for use

VOC content (w/w): 26,965 %. VOC content: 353.245 g/l

The provisions of the VOC Directive 2004/42/EC apply to this product. See product label and/or safety data sheet for more information.

Classification of the product according to Annex I of Directive 2012/18/EU (SEVESO III): N/A

The product is not affected by Regulation (EU) No 528/2012 concerning the placing on the market and use of biocidal products.

The product is not concerned by the procedure laid down in Regulation (EU) No 649/2012 concerning the export and import of dangerous chemicals.

15.2 Chemical safety assessment.

A chemical safety assessment of the product has not been carried out.

(de acuerdo con el Reglamento (UE) 2020/878)

STEPSBB1-89.- PUR S60 - REVESTIMIENTO POLIURETANO ALIFÁTICO BLANCO

Versión 1 Fecha de emisión: 26/10/2020

Página 15 de 17 Versión 4 (sustituye a la versión 3) Fecha de revisión: 21/03/2023 Fecha de impresión: 12/03/2024

SECTION 16: OTHER INFORMATION.

Full text of H-phrases listed in section 3:

H225 Highly flammable liquid and vapours.

H226 Flammable liquids and vapours.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H317 May cause allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory tract irritation.

H336 May cause drowsiness or dizziness.

H373 May cause damage to organs <indicate all organs concerned, if known> after prolonged or repeated exposure <indicate route of exposure if it is conclusively proven that no other route of exposure causes the hazard> (hearing organs).

Classification codes:

Acute Tox. 3: Acute inhalation toxicity, Category 3.

Acute Tox. 4: Acute dermal toxicity, Category 4

Acute Tox. 4: Acute Inhalation Toxicity, Category 4

Acute Tox. 4: Acute Oral Toxicity, Category 4

Asp. Tox. 1: Aspiration Toxicity, Category 1

Eye Dam. 1 : Serious eye injury, Category 1

Eye Irrit. 2: Eye Irritation, Category 2

Flam. Liq. 2: Flammable liquid, Category 2

Flam. Flam. 3: Flam. Liq. 3: Flammable liquid, Category 3

Resp. Sens. 1: Resp. Sens. 1: Respiratory sensitiser, Category 1

Skin Irrit. 2: Skin Irritant, Category 2

Skin Sens. 1: Skin Sens. 1: Skin Sensitiser, Category 1

STOT RE 2: Target Organ Toxicity after Repeated Exposure, Category 2

STOT SE 3: Toxicity to specific target organs after single exposure, Category 3

(de acuerdo con el Reglamento (UE) 2020/878)

STEPSBB1-89.- PUR S60 - REVESTIMIENTO POLIURETANO ALIFÁTICO BLANCO

Versión 1 Fecha de emisión: 26/10/2020 Página 16 de 17 Versión 4 (sustituye a la versión 3) Fecha de revisión: 21/03/2023 Fecha de impresión: 12/03/2024

Modifications compared to the previous version:

- Changes in the composition of the product (SECTION 3.2).

Classification and procedure used to determine the classification of mixtures according to Regulation (EC) No 1272/2008 [CLP]:

Physical hazards According to test data
Health hazards Calculation method
Environmental hazards Calculation method

Basic training in occupational health and safety is recommended for proper handling of the product.

Abbreviations and acronyms used:

ADR/RID: European Agreement concerning the International Carriage of Dangerous Goods by Road.

BCF: Bioconcentration Factor.

CEN: European Committee for Standardisation.

DMEL: Derived Minimal Effect Level, exposure level corresponding to a low risk, to be considered as a minimum tolerable risk.

considered to be a minimum tolerable risk.

DNEL: Derived No Effect Level, level of exposure to the substance below which no adverse effects are expected. below which no adverse effects are expected.

EC50: Average Effective Concentration.

PPE: Personal Protective Equipment.

IATA: International Air Transport Association.

ICAO: International Civil Aviation Organisation.

IMDG: International Maritime Dangerous Goods Code.

LC50: Lethal Concentration, 50%.

LD50: Lethal Dose, 50%.

NOEC: No Observed Effect Concentration.

PNEC: Predicted No Effect Concentration, concentration of the substance below which no effect is observed. concentration of the substance below which no negative effects on environmental behaviour are expected.

RID: Regulation concerning the International Carriage of Dangerous Goods by Rail.

Main bibliographic references and data sources:

http://eur-lex.europa.eu/homepage.html

http://echa.europa.eu/

Regulation (EU) 2020/878.

Regulation (EC) No 1907/2006.

(de acuerdo con el Reglamento (UE) 2020/878)

STEPSBB1-89.- PUR S60 - REVESTIMIENTO POLIURETANO ALIFÁTICO BLANCO

Versión 1 Fecha de emisión: 26/10/2020 Página 17 de 17 Versión 4 (sustituye a la versión 3) Fecha de revisión: 21/03/2023 Fecha de impresión: 12/03/2024

Regulation (EC) No 1272/2008.

The information provided in this Safety Data Sheet has been drawn up in accordance with COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

The information in this Product Safety Data Sheet is based on current knowledge and current EC and national laws, in that the working conditions of the users are beyond our knowledge and control. The product must not be used for purposes other than those specified without first having written instruction in its handling. It is always the responsibility of the user to take appropriate measures in order to comply with legislative requirements.