

Safety data sheet 10.24

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	acco	rding to 1907/2006/EC, Article 31
rinting date 08.06.20	20	Revision: 08.06.2020
SECTION 1: Id undertaking	dentificati	on of the substance/mixture and of the company/
[·] 1.1 Product ic	lentifier	
· Trade name: PU	-EP	
against No further relevar	nt informatior	uses of the substance or mixture and uses advised n available. e / the mixture One-component polyurethane foam - gun grade
 ¹ 1.3 Details of Manufacturer/Su Técnicas Expans P.I. La Portalada 26006 Logroño (L SPAIN 	ipplier: ivas S.L II c/ Segador	ier of the safety data sheet
 Further informat Tel: +34 941 272 Fax: +34 941 272 email: info@index 1.4 Emergence 	131 132 ‹fix.com	ble from: ne number: In case of emergency, consult physician
SECTION 2: F	lazards id	entification
		e substance or mixture Regulation (EC) No 1272/2008
Aerosol 1	-	 9 Extremely flammable aerosol. Pressurised container: May burst if heated.
Acute Tox. 4	H332	Harmful if inhaled.
Skin Irrit. 2	H315	Causes skin irritation.
Eye Irrit. 2	H319	Causes serious eye irritation.
Resp. Sens. 1	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin Sens. 1	H317	May cause an allergic skin reaction.
Carc. 2	H351	Suspected of causing cancer.
Lact.	H362	May cause harm to breast-fed children.
STOT SE 3	H335	May cause respiratory irritation.
STOT RE 2	H373	May cause damage to organs through prolonged or repeated exposure.
Aquatic Chronic 4	H413	May cause long lasting harmful effects to aquatic life.
	ling to Regu assified and la	alation (EC) No 1272/2008 abelled according to the CLP regulation.
GHS02 GHS07	GHS08	

· Signal word Danger

Hazard-determining components of labelling: diphenylmethanediisocyanate, isomeres and homologues alkanes, C14-17, chloro

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· Hazard statements		()
	mable aerosol. Pressurised container: May burst if h	eated.
H332 Harmful if inha		
H315 Causes skin ir		
	s eye irritation.	
	ergy or asthma symptoms or breathing difficulties if inl	naled.
	allergic skin reaction.	
	causing cancer.	
	rm to breast-fed children.	
	piratory irritation.	
	mage to organs through prolonged or repeated expos	sure.
	g lasting harmful effects to aquatic life.	
Precautionary statement		
	ut of reach of children.	
	special instructions before use.	I _ 4 '
	way from heat, hot surfaces, sparks, open flames and	other ignition
	s. No smoking.	
	spray on an open flame or other ignition source.	
	pierce or burn, even after use.	
	breathe vapours/spray.	
	rotective gloves/protective clothing/eye protection. of inadequate ventilation wear respiratory protection ((a protactive maak
-		
	appropriate gas filter - i.e. type A1 according to stand	$[a] \mathbf{U} \in \mathbf{N} \ [4367].$
	SKIN: Wash with plenty of water/soap.	blo for broathing
	ALED: Remove person to fresh air and keep comfortal YES: Rinse cautiously with water for several minutes.	
	if present and easy to do. Continue rinsing.	Remove contact
	sed or concerned: Get medical advice/attention.	
	from sunlight. Do not expose to temperatures exceed	ling 50 °C/122 °E
	e of container to in accordance with local/regional/nati	
	ional regulation.	ional/
· Additional information:		
	I to diisocyanates may develop allergic reactions whe	n using this product
	hma, eczema or skin problems should avoid contact,	
	This product should not be used under conditions of p	
	vith an appropriate gas filter (i.e. type A1 according to	
14387) is used.	an appropriate gas mer (i.e. type / if according to	
,	<i>r</i> produce an allergic reaction.	
[•] 2.3 Other hazards	produce an anergio redotion.	
	2 and a main and the second seco	
Results of PBT and VPVE	assessment Not applicable.	
SECTION 3: Compos	ition/information on ingredients	
[•] 3.2 Chemical charac	terisation: Mixtures	
	bstances listed below with nonhazardous additions.	
-		1
Dangerous components:		10 500
CAS: 9016-87-9	diphenylmethanediisocyanate,isomeres and homol	logues 40-50%

CAS: 9016-87-9	diphenylmethanediisocyanate,isomeres and homologues Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	40-50%	
CAS: 85535-85-9 EINECS: 287-477-0 Reg.nr.: 01-2119519269-33	alkanes, C14-17, chloro Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Lact., H362	1-10%	
CAS: 115-10-6 EINECS: 204-065-8 Reg.nr.: 01-2119472128-37	dimethyl ether Flam. Gas 1, H220; Press. Gas (Comp.), H280	5-15%	
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CAS: 13674-84-5 Reg.nr.: 01-2119447716-31	tris(2-chlorisopropyl)-phosphate	1-10%
CAS: 75-28-5 EINECS: 200-857-2 Reg.nr.: 01-2119486557-22	isobutane Flam. Gas 1, H220; Press. Gas (Comp.), H280	1-10%
CAS: 74-98-6 EINECS: 200-827-9 Reg.nr.: 01-2119486557-22	propane Flam. Gas 1, H220; Press. Gas (Comp.), H280	1-5%

• Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

[•] 4.1 Description of first aid measures

General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

· After skin contact:

If skin irritation continues, consult a doctor.

Immediately wash with water and soap and rinse thoroughly.

• After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. • After swallowing: If symptoms persist consult doctor.

• **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

[•] 5.1 Extinguishing media

- · Suitable extinguishing agents: Foam
- For safety reasons unsuitable extinguishing agents: Water with full jet
- 5.2 Special hazards arising from the substance or mixture

In case of fire, the following can be released: Nitrogen oxides (NOx)

Carbon monoxide (CO)

Hydrogen cyanide (HCN) • **5.3 Advice for firefighters**

- Protective equipment: Mouth respiratory protective device.
- · Additional information
- Cool endangered receptacles with water spray.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Keep away from ignition sources.

Ensure adequate ventilation

Wear protective equipment. Keep unprotected persons away.

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6.2 Environmental precautions: Inform respective authorities in case of seepage into water course or sewa	ae system
Do not allow to enter sewers/ surface or ground water.	ge system.
6.3 Methods and material for containment and cleaning up	o:
Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.	
6.4 Reference to other sections	
See Section 7 for information on safe handling.	
See Section 8 for information on personal protection equipment.	
See Section 13 for disposal information.	
SECTION 7: Handling and storage	
SECTION 7. Handling and storage	
7.1 Precautions for safe handling	
Ensure that suitable extractors are available on processing machines Ensure good ventilation/exhaustion at the workplace.	
Open and handle receptacle with care.	
Information about fire - and explosion protection:	
Keep ignition sources away - Do not smoke. Protect against electrostatic charges.	
7.2 Conditions for safe storage, including any incompatib	ilitios
Storage:	indes
Requirements to be met by storerooms and receptacles:	
Store in a cool location.	
Store only in the original receptacle. Observe official regulations on storing packagings with pressurised contain	iers.
Information about storage in one common storage facility: Store away	
Further information about storage conditions:	ata ala huvatia a
Store in a cool place. Heat will increase pressure and may lead to the rece	ptacle bursting.
Protect from humidity and water	
Protect from humidity and water. Keep container tightly sealed.	
Keep container tightly sealed. Do not seal receptacle gas tight.	
Keep container tightly sealed.	

SECTION 8: Exposure controls/personal protection

• Additional information about design of technical facilities: No further data; see item 7.

[•] 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

CAS: 9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

- WEL Short-term value: 0.07 mg/m³ Long-term value: 0.02 mg/m³ Sen; as -NCO
- CAS: 115-10-6 dimethyl ether
- WEL Short-term value: 958 mg/m³, 500 ppm Long-term value: 766 mg/m³, 400 ppm

• Additional information: The lists valid during the making were used as basis.

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[•] 8.2 Exposure controls

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- Personal protective equipment:
 General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Do not inhale gases / fumes / aerosols. Avoid contact with the eyes and skin.
- **Respiratory protection:** In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Protection of hands:



Protective gloves

Protective gloves according to EN 374

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:



Tightly sealed goggles

Wear airtight protective goggles EN 166 **Body protection:** Protective work clothing EN 13688

SECTION 9: Physical and ch	emical properties	
	vsical and chemical properties	
· General Information		
· Appearance: Form:	Aerosol	
Colour:	According to product specification	
	Characteristic	
· Odour threshold:	Not determined.	
· pH-value:	Not determined.	
· Change in condition		
Melting point/freezing point:	Undetermined.	
Initial boiling point and boiling r	ange: Not applicable, as aerosol.	
· Flash point:	Not applicable, as aerosol.	
· Flammability (solid, gas):	Not applicable.	
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Ignition temperature:	199 °C
Decomposition temperature:	Not determined.
· Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	Not determined.
· Explosion limits:	
Lower:	3.0 Vol %
Upper:	18.6 Vol %
· Vapour pressure:	Not determined.
· Density:	Not determined.
Relative density	Not determined.
[.] Vapour density	Not determined.
Evaporation rate	Not applicable.
· Solubility in / Miscibility with	
water:	Not miscible or difficult to mix.
Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
VOC (EC)	18.1 %
9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

* **10.1 Reactivity** No further relevant information available.

¹10.2 Chemical stability

• Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- [•] **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- * 10.4 Conditions to avoid No further relevant information available.
- * **10.5 Incompatible materials:** No further relevant information available.
- 10.6 Hazardous decomposition products:

Hydrogen cyanide (prussic acid) Carbon monoxide

Nitrogen oxides (NOx)

SECTION 11: Toxicological information

11.1 Information on toxicological effects

 Acute toxicity Harmful if inhaled.

· LD/LC50 values relevant for classification:

CAS: 115-10-6 dimethyl ether

Inhalative LC50/4 h 308 mg/l (rat)

CAS: 13674-84-5 tris(2-chlorisopropyl)-phosphate

Oral LD50 3,600 mg/kg (rat)

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 Primary irritant effect: Skin corrosion/irritation
Causes skin irritation.
· Serious eye damage/irritation
Causes serious eye irritation.
· Respiratory or skin sensitisation
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause an allergic skin reaction.
CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
• Germ cell mutagenicity Based on available data, the classification criteria are not met.
Carcinogenicity
Suspected of causing cancer.
 Reproductive toxicity May cause harm to breast-fed children.
· STOT-single exposure
May cause respiratory irritation.
· STOT-repeated exposure
May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard Based on available data, the classification criteria are not met.
SECTION 12: Ecological information
12.1 Toxicity
• Aquatic toxicity: No further relevant information available.
¹ 12.2 Persistence and degradability No further relevant information available.
12.3 Bioaccumulative potential No further relevant information available.
¹ 12.4 Mobility in soil No further relevant information available.
· Ecotoxical effects:
· Remark: Toxic for fish
· Additional ecological information:
· General notes:
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or
sewage system. Also poisonous for fish and plankton in water bodies.
Toxic for aquatic organisms
[•] 12.6 Other adverse effects No further relevant information available.
SECTION 13: Disposal considerations
13.1 Waste treatment methods
· Recommendation
Must not be disposed together with household garbage. Do not allow product to reach sewage
system.
European waste catalogue
08 05 01* waste isocyanates
16 05 04* gases in pressure containers (including halons) containing hazardous substances
15 01 10* packaging containing residues of or contaminated by hazardous substances
TO VE TO PACKAGING CONTAINING TESTICLES OF OF CONTAININATED BY NAZATOOUS SUBSTAILCES
· Uncleaned packaging:
· Recommendation: Disposal must be made according to official regulations.
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SECTION 14: Transport information	ation
· 14.1 UN-Number · ADR, IMDG, IATA	UN1950
¹ 14.2 UN proper shipping name ¹ ADR	1950 AEROSOLS
[•] 14.3 Transport hazard class(es)
· ADR · Class · Label	2 5F Gases. Flammable liquids. 2.1
· IMDG, IATA · Class · Label	2.1 2.1
 14.4 Packing group ADR, IMDG, IATA 	Void
 14.5 Environmental hazards: Marine pollutant: 	Νο
¹ 14.6 Special precautions for us EMS Number:	e r Warning: Gases. F-D,S-U
· Transport/Additional information:	
 ADR Limited quantities (LQ) 	11
· UN "Model Regulation":	UN1950, AEROSOLS, 2.1

SECTION 15: Regulatory information

[•] 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

No further relevant information available.

15.2 Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H220 Extremely flammable gas.

H280 Contains gas under pressure; may explode if heated.

H302 Harmful if swallowed.

- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 May cause respiratory irritation.
- H351 Suspected of causing cancer.
- H362 May cause harm to breast-fed children.

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Resp. Senso. 1: Respiratory sensitisation – Category 1	Skin Sens. 1: Skin sensitisation – Category 1
Skin Sens. 1: Skin sensitisation – Category 1	Carc. 2: Carcinogenicity – Category 2
Carc. 2: Carcinogenicity – Category 2	Lact.: Reproductive toxicity – effects on or via lactation
Lact.: Reproductive toxicity – effects on or via lactation	STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3	STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2	Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1	Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4	Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4