

Printing date 27.05.2015 Revision: 27.05.2015

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

· 1.1 Product identifier

· Trade name: HADALAN PUR Top 32P

· Article number: 50216 B

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

No further relevant information available.

· Application of the substance / the mixture

1-component solvent-containing protective and sealing paint in the outdoors

· 1.3 Details of the supplier of the safety data sheet

· Manufacturer/Supplier:

Heinrich Hahne GmbH & Co. KG

Heinrich-Hahne-Weg 11

45711 Datteln

Tel.:02363/5663-0

· Further information obtainable from:

Abteilung: Produktsicherheit

Tel.: 02363 5663-0

EMail: info@hahne-bautenschutz.de
• 1.4 Emergency telephone number:

Giftinformationszentrum Nord (GIZ Nord) Universität Göttingen,

Tel.: 0551-19240

SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008



GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS08 health hazard

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.

- · Classification according to Directive 67/548/EEC or Directive 1999/45/EC
- · Hazard description: Xn Harmful
- · Information concerning particular hazards for human and environment:

R 10 Flammable.

R 20/21 Harmful by inhalation and in contact with skin.

R 42/43 May cause sensitisation by inhalation and skin contact.

R~52/53~Harmful~to~aquatic~organisms,~may~cause~long-term~adverse

effects in the aquatic environment.

Contains isocyanates. May produce an allergic reaction.

Contains 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate. May produce an allergic reaction.

· Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

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- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

· Hazard pictograms





GHS02 GHS08

- · Signal word Danger
- · Hazard-determining components of labelling:

3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate

Hydrocarbons, C9-16, hydrotreated, dearomatized

xylene, mixed isomers, pure

· Hazard statements

H226 Flammable liquid and vapour.

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

H317 May cause an allergic skin reaction.

· Precautionary statements

P260 Do not breathe mist/vapours/spray.

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

P262 Do not get in eyes, on skin, or on clothing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P304+P312 IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

· Additional information:

Contains isocyanates. May produce an allergic reaction.

- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

- · 3.2 Chemical characterisation: Mixtures
- · Description: Polyurethane prepolymer, containing solvents

· Dangerous components:	
CAS: 93763-35-0 Hydrocarbons, C9-16, hydrotreated, dearomatized	10-25%
EINECS: 297-854-1 Xn R65	
♦ Asp. Tox. 1, H304	
CAS: 1330-20-7 xylene, mixed isomers, pure	2.5-10%
EINECS: 215-535-7 Xn R20/21; Xi R38	
$\overline{RI0}$	
Flam. Liq. 3, H226; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	
CAS: 4098-71-9 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	< 2%
EINECS: 223-861-6 😡 T R23; 🗙 Xn R42/43; 🗙 Xi R36/37/38; 🝢 N R51/53	
Acute Tox. 3, H331; 🚯 Resp. Sens. 1, H334; 🚯 Aquatic Chronic 2,	
H411; () Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT	
SE 3, H335	

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 \cdot Additional information:

For the wording of the listed risk phrases refer to section 16.

GISCODE: PU50

SECTION 4: First aid measures

- · 4.1 Description of first aid measures
- · After inhalation:

Immediately dexamethasone spray (Auxiloson, Pumocrt) inhale. Patient to fresh air, seek medical attention Inhalation.

- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact:

Eye for several minutes under running water with eyelids open. If symptoms persist, consult a doctor. Unaffected eye protect, remove contact lenses.

- · After swallowing: Drink plenty of water and provide fresh air. Call for a doctor immediately.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Information for doctor:

Symptoms: After prolonged exposure to mild skin irritation possible. With aspiration can occur edema and pneumonia.

Irritating: on the skin and mucous membranes, has a narcotic effect. Decontamination, symptomatic treatment. After swallowing Induce vomiting or gastric lavage with enclosing administration of activated charcoal and sodium sulfate (each 1 tablespoon to 1/4 liter of water). Do not give adrenaline or its derivatives. A toxic pulmonary edema can be detected radiographically at an early stage in a chest x-ray about 8 hours after inhalation (perihilar opacities). For comparison, therefore, a chest radiograph is recommended as soon as possible after inhalation, if the risk of pulmonary edema is suspected.

· 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: Water spray, foam, powder, CO2
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- · 5.2 Special hazards arising from the substance or mixture

Case of fire, CO2, CO and nitrous gases possible.

Product reacts with water. Prevent ingress of water into the product and product containers - bursting through decomposition. Prevent spreading of vapors or product from reaching sewage system - risk of explosion. Spilled not burning product cover with foam. Affected by the fire cool, undamaged containers with water spray.

- · 5.3 Advice for firefighters
- $\cdot \textit{Protective equipment: } \textit{Use self contained breathing apparatus.}$
- · Additional information Contaminated extinguishing water separately.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

· 6.2 Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

· 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

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Do not flush with water or aqueous cleansing agents

Clean on exit / discharge larger amounts of soil surface and discard.

· 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

· 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Facilities, equipment, containers tightly closed.

· 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 incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles:

Store in a cool, dry place.

Keep ignition sources away.

- · Information about storage in one common storage facility: Do not store with food, beverages and tobacco.
- · Further information about storage conditions: Keep container tightly sealed.
- · 7.3 Specific end use(s) No further relevant information available.

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 the	ıt reanire	monitoring	at the	worknlace.

1330-20-7 xylene, mixed isomers, pure (2.5-10%)

WEL Short-term value: 441 mg/m³, 100 ppm Long-term value: 220 mg/m³, 50 ppm

Sk; BMGV

4098-71-9 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate (< 0.5%)

WEL | Short-term value: 0.07 mg/m³

Long-term value: 0.02 mg/m³

Sen; as -NCO

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

- · 8.2 Exposure controls
- · 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.

· Respiratory protection:

In inadequately ventilated places require respiratory protection. Recommendation: filter type A(B), possibly with P3.

· Protection of hands:

Protective gloves

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

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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.

Recommended: nitrile gloves or butyl rubber.

· 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 • Body protection: Protective work clothing.

SECTION	l 9: Physical and	d chemical	l properties

· 9.1 Information on basic physical and chemical properties				
· General Information				
· Appearance:				
Form: Fluid				
Colour:	according to product specification			
· Odour:	Type specific, according solvents			
Change in condition Boiling point/Boiling rang	e: Undetermined.			
Flash point:	48 °C			
Ignition temperature:	450 °C			
· Self-igniting: Product is not selfigniting.				
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapo mixtures are possible.			
Explosion limits:				
Lower:	0.7 Vol %			
Upper:	7.5 Vol %			
· Vapour pressure at 20 °C:	5 hPa			
Density at 20 °C:	$1.05 \ g/cm^3$			
Solubility in / Miscibility with water:	h Not miscible or difficult to mix.			
· Viscosity: Dynamic at 20 °C:	2000 mPas			
Solvent content:				
Organic solvents:	< 25 %			
9.2 Other information	No further relevant information available.			

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SECTION 10: Stability and reactivity

- · 10.1 Reactivity
- · 10.2 Chemical stability
- · Thermal decomposition / conditions to be avoided:

Incomplete combustion of carbon monoxide, oxides of nitrogen. Violent reaction with strong oxidizing agents. Reacts with: amines, strong bases, alcohols, as well as elimination of CO2 with water and carboxylic acids.

- · 10.3 Possibility of hazardous reactions No dangerous reactions known.
- · 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: Water, strong oxidizing agents, amines, alcohols, strong bases.
- · 10.6 Hazardous decomposition products:

No decomposition if used according to specifications.

In combustion emits toxic fumes of carbon monoxide, carbon dioxide.

SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- · Acute toxicity:

· LD/LC50	values	relevant	for	classi	fication:
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1330-20-7 xylene, mixed isomers, pure

Oral	LD50	8700 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rbt)
Inhalative	LC50/4 h	6350 mg/l (rat)

- · Primary irritant effect:
- · on the skin: Irritant
- · on the eye: Irritant
- · Sensitisation:

Sensitisation possible through inhalation.

Sensitisation possible through skin contact.

· Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Harmful Irritant

SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- · 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- · Other information: Forms solid reaction product with water.
- · Ecotoxical effects:
- · Remark: Harmful to fish
- · Additional ecological information:
- · General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

- · 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

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· 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 empty into drains.

Cover Verschütete quantities with wet, absorbent material (sand, sawdust, general-purpose binder). Record after about 1 hour in the waste container can not be ver racket Iessen (CO2 evolution). Moisturizing and secure place outdoors 7-14 days and then dispose of regulated waste.

· European waste catalogue

08 01 11* waste paint and varnish containing organic solvents or other dangerous substances

- · Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information		
· 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 Not applicable.		
· Transport/Additional information:	Not hazardous according to ADR.	

SECTION 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · National regulations:
- · Technical instructions (air):

Class	Share in %
I	0.4
NK	16.0

- · Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.
- · Other regulations, limitations and prohibitive regulations

This product is subject to Directive 2004/42/EC.

EU limit value for the VOC content of this product is ready for use: cat A / i 500 g / l (2010).

The product contains a ready to use product: <200 g / l VOC.

· 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

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

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H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
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 irritation.
H411	Toxic to aquatic life with long lasting effects.
R10	Flammable.
R20/21	Harmful by inhalation and in contact with skin.
R23	Toxic by inhalation.
	8 Irritating to eyes, respiratory system and skin.
R38	Irritating to skin.
R42/43	May cause sensitisation by inhalation and skin contact.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65	Harmful: may cause lung damage if swallowed.
	tions and acronyms:
	ment international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the
	al Transport of Dangerous Goods by Rail)
	ally Harmonised System of Classification and Labelling of Chemicals
	uropean Inventory of Existing Commercial Chemical Substances
	uropean List of Notified Chemical Substances nical Abstracts Service (division of the American Chemical Society)
	al concentration, 50 percent
	al dose, 50 percent
	3: Flammable liquids, Hazard Category 3
	4: Acute toxicity, Hazard Category 4
	3: Acute toxicity, Hazard Category 3 l: Skin corrosion/irritation, Hazard Category 2
	: Serious eye damage/eye irritation, Hazard Category 2
	1: Sensitisation - Respirat., Hazard Category 1
	1: Sensitisation - Skin, Hazard Category 1
	: Specific target organ toxicity - Single exposure, Hazard Category 3
	: Aspiration hazard, Hazard Category 1
Aquanc Cn	ronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2

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