

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 31.07.2023

Revision: 31.07.2023

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

- **1.1 Product identifier**
- **Trade name:** HADALAN PUR Top 32P Grau / Silbergrau
- **Article number:**  
40228  
UFI-Code: 7J43-40V8-500Q-9160
- **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** One-component, elastic sealing based on polyurethane.
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Sievert Baustoffe SE & Co. KG  
Mühlenschweg 6  
D-49090 Osnabrück  
Tel.: +49 2363 5663-0
- **Further information obtainable from:**  
Abteilung: Produktsicherheit  
Tel.. +49 2363 5663-0  
info-hahne@sievert.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**



flame

Flam. Liq. 3      H226 Flammable liquid and vapour.



health hazard

Resp. Sens. 1      H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.



Skin Irrit. 2      H315 Causes skin irritation.

Eye Irrit. 2      H319 Causes serious eye irritation.

Skin Sens. 1      H317 May cause an allergic skin reaction.

STOT SE 3      H335 May cause respiratory irritation.

Aquatic Chronic 3      H412 Harmful to aquatic life with long lasting effects.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the GB CLP regulation.

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· **Hazard pictograms**

GHS02   GHS07   GHS08

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

IPDI-Prepolymer 2

Hydrocarbons, C9-16, hydrotreated, dearomatized

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

Bis[2-[2-(1-methylethyl)-3-oxazolidinyl]ethyl] hexane-1,2-diylbiscarbamat

hexahydromethylphthalic anhydride

· **Hazard statements**

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

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

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

H412 Harmful to aquatic life with long lasting effects.

· **Precautionary statements**

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

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

P273 Avoid release to the environment.

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

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

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

· **Additional information:**

Contains isocyanates. May produce an allergic reaction.

Safety data sheet available on request.

Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

· **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, contains solvents· **Dangerous components:**

CAS: 68957-72-2	IPDI-Prepolymer 2	50-100%
	⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	
CAS: 93763-35-0	Hydrocarbons, C9-16, hydrotreated, dearomatized	10-25%
EINECS: 297-854-1	⚠ Asp. Tox. 1, H304	
CAS: 59719-67-4	Bis[2-[2-(1-methylethyl)-3-oxazolidinyl]ethyl] hexane-1,2-diylbiscarbamat	10-25%
	⚠ Aquatic Chronic 2, H411; ⚠ Eye Irrit. 2, H319; Skin Sens. 1, H317	

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CAS: 13463-67-7 EINECS: 236-675-5	titanium dioxide ☠ Carc. 2, H351	2.5-10%
EC number: 918-668-5	Kohlenwasserstoffe, C9, Aromaten (Alkyl C3 benzenes, cymenes) ☠ Flam. Liq. 3, H226; ☠ Asp. Tox. 1, H304; ☠ Aquatic Chronic 2, H411; ⚠ STOT SE 3, H335-H336	2.5-10%
CAS: 4098-71-9 EINECS: 223-861-6	3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate ☠ 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	<0.1%
CAS: 108-94-1 EINECS: 203-631-1	cyclohexanone ☠ Flam. Liq. 3, H226; ☠ Acute Tox. 3, H311; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332	<1.0%
CAS: 25550-51-0 EINECS: 247-094-1	hexahydromethylphthalic anhydride ☠ Resp. Sens. 1, H334; ☠ Eye Dam. 1, H318; ⚠ Skin Sens. 1, H317	<0.25%

· **SVHC**

25550-51-0 | hexahydromethylphthalic anhydride

· **Additional information:**

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

GHS CODE: PU50

### SECTION 4: First aid measures

· **4.1 Description of first aid measures**· **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.

Immediately inhale dexamethasone spray (Auxilison, Pumocrt). After inhalation, rest, fresh air, medical help.

· **After skin contact:** 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.

Protect uninjured eye, remove contact lenses.

· **After swallowing:** Drink plenty of water and provide fresh air. Call for a doctor immediately.· **Information for doctor:**

Symptoms: Slight skin irritation possible after prolonged exposure. Aspiration can lead to pulmonary edema and pneumonia.

Has an irritant effect: has a narcotic effect on the skin and mucous membranes. Decontamination, symptomatic treatment. After swallowing induce vomiting or gastric lavage with the addition of activated charcoal and sodium sulphate (1 tablespoon per 1/4 l of water). Do not give adrenaline or its derivatives. Toxic pulmonary edema can be detected radiologically in the initial stage in a T-x-ray image approx. 8 hours after inhalation (perihilar opacities). For comparison, a chest x-ray is advisable as soon as possible after inhalation, if the risk of pulmonary edema is suspected.

· **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:** Spray water, foam, powder, CO<sub>2</sub>· **5.2 Special hazards arising from the substance or mixture**In the event of fire, CO<sub>2</sub>, CO and nitrous gases can develop.

Product reacts with water. Avoid the penetration of water into the product and the product container - risk of bursting due to decomposition. Prevent vapors or product from entering drains - risk of explosion. Cover leaked non-burning product with foam. Cool undamaged containers affected by fire with water spray.

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- **5.3 Advice for firefighters**
- **Protective equipment:** Mount respiratory protective device.
- **Additional information** Hold back contaminated fire fighting water.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Mount respiratory protective device.  
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:**  
Do not allow product to reach sewage system or any water course.  
Prevent seepage into sewage system, workpits and cellars.  
Inform respective authorities in case of seepage into water course or sewage system.  
Dilute with plenty of water.  
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.  
Clean and dispose of the floor surface if larger quantities escape / leak.
- **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.  
Keep systems, equipment and containers tightly closed.
- **Information about fire - and explosion protection:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.  
Keep respiratory protective device available.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Store in a cool and dry place.  
Keep away from ignition sources.
- **Information about storage in one common storage facility:** Do not store together with food and luxury items.
- **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

- **8.1 Control parameters**
- **Additional information about design of technical facilities:** No further data; see item 7.
- **Ingredients with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

**4098-71-9 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate (<0.1%)**

WEL	Short-term value: 0.07 mg/m <sup>3</sup> Long-term value: 0.02 mg/m <sup>3</sup> Sen; as -NCO
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<b>108-94-1 cyclohexanone (&lt;1%)</b>	
WEL	Short-term value: 82 mg/m <sup>3</sup> , 20 ppm Long-term value: 41 mg/m <sup>3</sup> , 10 ppm Sk, BMGV
<b>4098-71-9 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate (&lt;0.5%)</b>	
WEL	Short-term value: 0.07 mg/m <sup>3</sup> Long-term value: 0.02 mg/m <sup>3</sup> Sen; as -NCO
<b>13463-67-7 titanium dioxide (2.5-10%)</b>	
WEL	Long-term value: 10* 4** mg/m <sup>3</sup> *total inhalable **respirable

· **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.

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.

Respiratory protection required at workplaces that are not adequately ventilated. Recommendation: filter type A (B) with P3 if necessary.

· **Protection of hands:**

Protective gloves

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

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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.

Recommendation: gloves made of nitrile or butyl rubber.

· **Penetration time of glove material**

The exact break through 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 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

**Form:** Fluid

**Colour:** According to product specification

· **Odour:** typical of the species, after solvents

· **Odour threshold:** Not determined.

· **pH-value:** Not determined.

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· <b>Change in condition</b> Melting point/freezing point: Undetermined. Initial boiling point and boiling range: 240 °C
· <b>Flash point:</b> >35 °C
· <b>Flammability (solid, gas):</b> Not applicable.
· <b>Ignition temperature:</b> 450 °C
· <b>Decomposition temperature:</b> Not determined.
· <b>Auto-ignition temperature:</b> Product is not selfigniting.
· <b>Explosive properties:</b> Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· <b>Explosion limits:</b> Lower: 0.7 Vol % Upper: 7.5 Vol %
· <b>Vapour pressure at 20 °C:</b> 0 hPa
· <b>Density at 20 °C:</b> ~1.2425 g/cm <sup>3</sup> · <b>Relative density</b> Not determined. · <b>Vapour density</b> Not determined. · <b>Evaporation rate</b> Not determined.
· <b>Solubility in / Miscibility with water:</b> reacts with water
· <b>Partition coefficient: n-octanol/water:</b> Not determined.
· <b>Viscosity:</b> Dynamic at 20 °C: 3,000 mPas Kinematic: Not determined.
· <b>Solvent content:</b> Organic solvents: 0.5 %
· <b>9.2 Other information</b> No further relevant information available.

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
In the event of incomplete combustion, carbon monoxide, nitrogen oxides. Violent reaction with strong oxidizing agents. Reacts with: amines, strong bases, alcohols, as well as splitting off CO<sub>2</sub> with water and carboxylic acids.
- **10.3 Possibility of hazardous reactions**  
Stable under normal conditions. From 210 °C, self-polymerization can take place with the release of CO<sub>2</sub>
- **10.4 Conditions to avoid** Sources of ignition. humidity
- **10.5 Incompatible materials:** Water, strong oxidizing agents, amines, alcohols, strong bases.
- **10.6 Hazardous decomposition products:**  
No decomposition if used as directed.  
When burned, releases poisonous gases such as carbon monoxide and carbon dioxide.

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

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· <b>LD/LC50 values relevant for classification:</b>
<b>13463-67-7 titanium dioxide</b>
Oral LD50 >10,000 mg/kg (rat)

· **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.

· **Additional toxicological information:**· **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**· **Germ cell mutagenicity** Based on available data, the classification criteria are not met.· **Carcinogenicity** Based on available data, the classification criteria are not met.· **Reproductive toxicity** Based on available data, the classification criteria are not met.· **STOT-single exposure**

May cause respiratory irritation.

· **STOT-repeated exposure** Based on available data, the classification criteria are not met.· **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.· **12.2 Persistence and degradability** Kaum biologisch abbaubar.· **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.· **Ecotoxicological effects:**· **Remark:** Harmful to fish· **Additional ecological information:**· **General notes:**

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.

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

Harmful to aquatic organisms

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

Cover spilled amounts with damp, liquid-binding material (sand, sawdust, universal binder). After approx. 1 hour take up in the waste container, do not close (CO<sub>2</sub> development). Keep moist and leave to stand in the open in a secure place for 7-14 days and then dispose of in an orderly landfill.· **Uncleaned packaging:**· **Recommendation:** Disposal must be made according to official regulations.

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· **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### SECTION 14: Transport information

· **14.1 UN-Number**· **ADR, IMDG**

Void

· **IATA**

UNI139

· **14.2 UN proper shipping name**· **ADR, IMDG**

Void

· **IATA**

COATING SOLUTION

· **14.3 Transport hazard class(es)**· **ADR, ADN, IMDG**· **Class**

Void

· **IATA**· **Class**

3 Flammable liquids.

· **Label**

3

· **14.4 Packing group**· **ADR, IMDG**

Void

· **IATA**

III

· **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**

Not applicable.

· **Transport/Additional information:**

No dangerous goods in terms of ADR.

· **UN "Model Regulation":**

Void

### SECTION 15: Regulatory information

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

REACH - Candidate List of Substances of Very High Concern for Authorization (Article 59). : Hexahydromethylphthalic anhydride all isomers

· **Directive 2012/18/EU**· **Named dangerous substances - ANNEX I** None of the ingredients is listed.· **Seveso category P5c** FLAMMABLE LIQUIDS· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5.000 t· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50.000 t· **National regulations:**· **Technical instructions (air):**

Class	Share in %
I	0.7
NK	0.5

· **Waterhazard class:** Water hazard class 2 (Self-assessment): hazardous for water.

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· **Other regulations, limitations and prohibitive regulations**

The product is subject to RL 2004/42 / EG.

The EU limit value for the VOC content of this product is in the ready-to-use state: Cat A / i 500 g / l (2010).

The ready-to-use product contains: <250 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.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H311 Toxic in contact with skin.

H315 Causes skin irritation.

H317 May cause an 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 irritation.

H336 May cause drowsiness or dizziness.

H351 Suspected of causing cancer.

H411 Toxic to aquatic life with long lasting effects.

· **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Acute Tox. 3: Acute toxicity – Category 3

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Resp. Sens. 1: Respiratory sensitisation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1

Carc. 2: Carcinogenicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3