

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

Printing date 18.08.2021

Revision: 30.06.2020

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

- **1.1 Product identifier**
- **Trade name:** HADALAN FBA 32P
- **Article number:** 40373
- **UFI:** VE50-2089-H00P-HQWS
- **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 GmbH & 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**



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.



GHS07

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 CLP regulation.

(Contd. on page 2)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 18.08.2021

Revision: 30.06.2020

Trade name: **HADALAN FBA 32P**

(Contd. of page 1)

· **Hazard pictograms**

GHS02 GHS07 GHS08

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

IPDI-Prepolymer 2

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

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

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 mist/vapours/spray.

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

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

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

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:** Preparation based on a polyurethane prepolymer, contains solvents· **Dangerous components:**

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

(Contd. on page 3)

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

Printing date 18.08.2021

Revision: 30.06.2020

Trade name: HADALAN FBA 32P

(Contd. of page 2)

CAS: 13463-67-7 EINECS: 236-675-5	titanium dioxide ☠ Carc. 2, H351	<2.5%
CAS: 26444-49-5 EINECS: 247-693-8	diphenyl tolyl phosphate ☠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	<2.5%
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	<2.5%
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	<2.5%
CAS: 25550-51-0 EINECS: 247-094-1	hexahydromethylphthalic anhydride ☠ Resp. Sens. 1, H334; ☠ Eye Dam. 1, H318; ☠ Skin Sens. 1, H317	<2.5%

· **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 Txorax 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, CO₂· **For safety reasons unsuitable extinguishing agents:** Water with full jet· **5.2 Special hazards arising from the substance or mixture**

During heating or in case of fire poisonous gases are produced.

In the event of fire, CO₂, 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 penetration of vapors or product into drains - risk of explosion. Cover leaked non-burning product with foam. Cool undamaged containers affected by fire with water spray.

(Contd. on page 4)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 18.08.2021

Revision: 30.06.2020

Trade name: **HADALAN FBA 32P**

(Contd. of page 3)

- **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:**
Prevent seepage into sewage system, workpits and cellars.
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.
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.
- **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.
- **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:**

7727-43-7 barium sulphate, natural (25-50%)	
WEL	Long-term value: 10* 4** mg/m ³ *inhalable dust **respirable dust
26444-49-5 diphenyl tolyl phosphate (<1%)	
WEL	see section IIb
4098-71-9 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate (<0.5%)	
WEL	Short-term value: 0.07 mg/m ³ Long-term value: 0.02 mg/m ³ Sen; as -NCO

(Contd. on page 5)

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

Printing date 18.08.2021

Revision: 30.06.2020

Trade name: **HADALAN FBA 32P**

(Contd. of page 4)

108-94-1 cyclohexanone (<1%)	
WEL	Short-term value: 82 mg/m ³ , 20 ppm Long-term value: 41 mg/m ³ , 10 ppm Sk, BMGV
13463-67-7 titanium dioxide (>2.5%)	
WEL	Long-term value: 10* 4** mg/m ³ *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.

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.

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

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.

· **Change in condition**

Melting point/freezing point: Undetermined.

Initial boiling point and boiling range: 137-143 °C

· **Flash point:** >35 °C

(Contd. on page 6)

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

Printing date 18.08.2021

Revision: 30.06.2020

Trade name: **HADALAN FBA 32P**

(Contd. of page 5)

· Flammability (solid, gas):	Not applicable.
· Decomposition temperature:	Not determined.
· Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Explosion limits:	
Lower:	0.7 Vol %
Upper:	7.5 Vol %
· Vapour pressure at 20 °C:	>10 hPa
· Density at 20 °C:	1.5 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with water:	reacts with water
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
Dynamic at 20 °C:	3,000 mPas
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	0.3 %
Solids content:	89.2 %
· 9.2 Other information	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 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 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.

· **LD/LC50 values relevant for classification:**

26444-49-5 diphenyl tolyl phosphate

Oral	LD50	>5,000 mg/kg (rat)
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Dermal	LD50	>2,000 mg/kg (rat) (OECD 402 Acute Dermal Toxicity)
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(Contd. on page 7)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 18.08.2021

Revision: 30.06.2020

Trade name: **HADALAN FBA 32P**

(Contd. of page 6)

- **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** 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.
- **Ecotoxicological 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.
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 (CO₂ 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.

European waste catalogue	
08 04 09*	waste adhesives and sealants containing organic solvents or other hazardous substances

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

GB

(Contd. on page 8)

Safety data sheet

according to 1907/2006/EC, Article 31


Printing date 18.08.2021

Revision: 30.06.2020

Trade name: **HADALAN FBA 32P**

(Contd. of page 7)

SECTION 14: Transport information

· 14.1 UN-Number	-
· ADR, IMDG	Void
· IATA	UN1139
· 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						
· 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						
· REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 74						
· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II						
None of the ingredients is listed.						
· National regulations:						
· Technical instructions (air):						
<table border="1" style="width: 100%;"> <thead> <tr> <th>Class</th> <th>Share in %</th> </tr> </thead> <tbody> <tr> <td>I</td> <td>0,3</td> </tr> <tr> <td>NK</td> <td>0,3</td> </tr> </tbody> </table>	Class	Share in %	I	0,3	NK	0,3
Class	Share in %					
I	0,3					
NK	0,3					
· Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.						

(Contd. on page 9)

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

Printing date 18.08.2021

Revision: 30.06.2020

Trade name: HADALAN FBA 32P

(Contd. of page 8)

· 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: <190 g / l VOC.

· Substances of very high concern (SVHC) according to REACH, Article 57

25550-51-0 | hexahydromethylphthalic anhydride

· 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.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

· Abbreviations and acronyms:

ADR: Accord européen sur le transport 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

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 4: Acute toxicity - oral – Category 4

Acute Tox. 3: Acute toxicity - dermal – 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 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 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