

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

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

- **1.1 Product identifier**
- **Trade name:** HADALAN HV Uni 30DD
- **Article number:** 40923
- **UFI:** 03C0-F0TG-R00C-58D1
- **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** Primer to improve adhesion on various substrates.
- **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

Repr. 1B              H360FD      May damage fertility. May damage the unborn child.  
STOT RE 2           H373           May cause damage to the hearing organs through prolonged or repeated exposure.  
Asp. Tox. 1           H304           May be fatal if swallowed and enters airways.



GHS07

Acute Tox. 4           H312           Harmful in contact with skin.  
Acute Tox. 4           H332           Harmful 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.

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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.

#### Hazard pictograms



GHS02 GHS07 GHS08

#### Signal word Danger

#### Hazard-determining components of labelling:

xylene

Hexamethylene diisocyanate oligomers

dibutyltin dilaurate

ethylbenzene

hexamethylene diisocyanate

#### Hazard statements

H226 Flammable liquid and vapour.

H312+H332 Harmful in contact with skin or if inhaled.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H360FD May damage fertility. May damage the unborn child.

H335 May cause respiratory irritation.

H373 May cause damage to the hearing organs through prolonged or repeated exposure.

H304 May be fatal if swallowed and enters airways.

H412 Harmful to aquatic life with long lasting effects.

#### Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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

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.

P331 Do NOT induce vomiting.

#### 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: Preparation based on aliphatic polyisocyanates.

#### Dangerous components:

|                |   |         |
|----------------|---|---------|
| CAS: 1330-20-7 | xylene<br>Flam. Liq. 3, H226;  STOT RE 2, H373; Asp. Tox. 1, H304;  Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335; Aquatic Chronic 3, H412 | 50-100% |
|----------------|---|---------|

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|                                    |  |           |
|------------------------------------|--|-----------|
| CAS: 28182-81-2                    | Hexamethylene diisocyanate oligomers<br>⚠ Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335  | 10-25%    |
| CAS: 100-41-4<br>EINECS: 202-849-4 | ethylbenzene<br>⚠ Flam. Liq. 2, H225; ⚠ STOT RE 2, H373; Asp. Tox. 1, H304; ⚠ Acute Tox. 4, H332   | 2.5-10%   |
| CAS: 77-58-7<br>EINECS: 201-039-8  | dibutyltin dilaurate<br>⚠ Acute Tox. 3, H301; ⚠ Muta. 2, H341; Repr. 1B, H360FD; STOT RE 1, H372   | 0.25-0.5% |
| CAS: 822-06-0<br>EINECS: 212-485-8 | hexamethylene diisocyanate<br>⚠ Acute Tox. 3, H311; Acute Tox. 1, H330; ⚠ Resp. Sens. 1, H334;<br>⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335 | <0.5%     |

· **Additional information:**

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

GISCODE: 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.

· **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.

· **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.

· **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:**

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant 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:

Carbon monoxide (CO)

Nitrogen oxides (NO<sub>x</sub>)

Hydrogen cyanide (HCN)

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

· **5.3 Advice for firefighters**

· **Protective equipment:** Mount respiratory protective device.

### 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.

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- **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.
- **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, dry place.
- **Information about storage in one common storage facility:** Keep away from foodstuffs.
- **Further information about storage conditions:**  
Keep container tightly sealed.  
Open containers carefully to prevent closing by reaction with atmospheric moisture.
- **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:**

**1330-20-7 xylene (50-100%)**

WEL Long-term value: 440 mg / m<sup>3</sup>, 100 ml / m<sup>3</sup>  
2 (II); DFG, EU, H

**100-41-4 ethylbenzene (2.5-10%)**

WEL Long-term value: 88 mg / m<sup>3</sup>, 20 ml / m<sup>3</sup>  
2 (II); DFG, H, Y, EU

**77-58-7 dibutyltin dilaurate (<0.25%)**

WEL Long-term value: 0.009 mg / m<sup>3</sup>, 0.0018 ml / m<sup>3</sup>  
1 (I); H, Z, 10, 11, AGS

· **DNELs**

Xylene:

Short term inhalation / local 289 mg / m<sup>3</sup> professional  
Long-term inhalation / systemic 77 mg / m<sup>3</sup> professional  
Long-term dermal / systemic 180 mg / kg bw / day professional  
Short term inhalation / local 174 mg / m<sup>3</sup> general  
Short term inhalation / systemic 174 mg / m<sup>3</sup> general  
Long-term inhalation / systemic 14.8 mg / m<sup>3</sup> general  
Long-term dermal / systemic 108 mg / kg bw / day in general  
Long-term oral / systemic 1.6 mg / kg bw / day in general  
Hexamethylene-1,6-diisocyanate homopolymer  
Worker, inhalation  
Long-term - local effects 0.5 mg / m<sup>3</sup>  
Most critical endpoint: irritation (respiratory tract)

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*Worker, inhalation**Acute - local effects 1 mg / m<sup>3</sup>**Most critical endpoint: irritation (respiratory tract)***· PNECs***Xylene:**Fresh water: 0.327 mg / l**Sea water 0.327 mg / l**sporadic release: 0.327 mg / l**STP 6.58 mg / l**Sediment (fresh water): 12.46 mg / kg**Sediment (sea water): 12.46 mg / kg**Soil: 2.31 mg / kg**Hexamethylene-1,6-diisocyanate homopolymer:**Fresh water 0.127 mg / l / fresh water sediment 266 700 mg / kg dry weight**Sea water 0.0127 mg / l / marine sediment 26670 mg / kg dry weight**Wastewater treatment plant 38.3 mg / l**Air -No hazard identified**Soil 53182 mg / kg dry weight***· Ingredients with biological limit values:****1330-20-7 xylene (50-100%)***BMGV 1.5 mg / l**Test material: whole blood**Sampling time: end of exposure or end of shift**Parameter: xylene**2000 mg / L**Test material: urine**Sampling time: end of exposure or end of shift**Parameter: methylhippuric (toluric) acid (all isomers)***100-41-4 ethylbenzene (2.5-10%)***BMGV 250 mg / g creatinine**Test material: urine**Sampling time: end of exposure or end of shift**Parameters: mandelic acid plus phenoxyglyxylic acid***· 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.**Store protective clothing separately.**Avoid contact with the eyes and skin.***· Respiratory protection:** *Not necessary if room is well-ventilated.***· Protection of hands:***Protective gloves**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**Solvent-resistant gloves made of nitrile rubber, neoprene or Viton wear.***· 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.*

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- **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:

|                           |                 |
|---------------------------|-----------------|
| · <b>Form:</b>            | Fluid           |
| · <b>Colour:</b>          | transparent     |
| · <b>Odour:</b>           | like solvent    |
| · <b>Odour threshold:</b> | Not determined. |

· **pH-value:** Not determined.

##### · Change in condition

|   |               |
|---|---------------|
| · <b>Melting point/freezing point:</b>            | Undetermined. |
| · <b>Initial boiling point and boiling range:</b> | 137-143 °C    |

· **Flash point:** 24 °C

· **Flammability (solid, gas):** Not applicable.

· **Ignition temperature:** 480 °C

· **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:

|                 |         |
|-----------------|---------|
| · <b>Lower:</b> | 1 Vol % |
| · <b>Upper:</b> | 8 Vol % |

· **Vapour pressure at 20 °C:** 6.7 hPa

· **Density at 20 °C:** 0.94 g/cm<sup>3</sup>

· **Relative density** Not determined.

· **Vapour density** Not determined.

· **Evaporation rate** Not determined.

##### · Solubility in / Miscibility with water:

Not miscible or difficult to mix.

· **Partition coefficient: n-octanol/water:** Not determined.

##### · Viscosity:

|                     |                 |
|---------------------|-----------------|
| · <b>Dynamic:</b>   | Not determined. |
| · <b>Kinematic:</b> | Not determined. |

· **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:** No decomposition if used according to specifications.

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· **10.3 Possibility of hazardous reactions**

*Exothermic reactions with amines and alcohols. With water forming CO<sub>2</sub>-pressure buildup in closed containers, risk of bursting.*

· **10.4 Conditions to avoid** *No further relevant information available.*

· **10.5 Incompatible materials:** *No further relevant information available.*

· **10.6 Hazardous decomposition products:** *No dangerous decomposition products known.*

**SECTION 11: Toxicological information**

· **11.1 Information on toxicological effects**

*Xylene CAS Nr.1330-20-7*

*acute toxicity*

*inhalation*

*Value Type: Acute toxicity estimate*

*Value: 20.37 mg / l*

*Method: Calculation method*

*Toxicity: Danger by skin resorption.*

*Experience with human exposure: Prolonged skin contact may defat the skin and produce dermatitis.*

*Oral*

*Value Type: LD50*

*Value: 4.300 mg / kg*

*Species: rat*

*inhalation*

*Value Type: LC50*

*Value: 21.7 mg / l*

*Exposure time: 4 h*

*Species: rat*

*Notes: This literature data differs from the classification prescribed by the EU.*

*skin*

*Value Type: LD50*

*Value: 3.200 mg / kg*

*Species: rabbit*

*Notes: This literature data differs from the classification prescribed by the EU.*

*irritation*

*skin*

*Species: rabbit*

*Result: Irritating to skin.*

*eye*

*Species: rabbit*

*Result: Mild eye irritation*

*sensitization*

*Notes: sensitization did not occur in patch tests on human volunteers.*

*Acute toxicity, by oral route:*

*Hexamethylene-1,6-diisocyanate homopolymer*

*LD50 rat: > 5000 mg / kg*

*Acute toxicity, by inhalation:*

*Hexamethylene-1,6-diisocyanate homopolymer:*

*LC50 rat, male: 543 mg / m<sup>3</sup>, 4 h*

*Method: OECD Test Guideline 403*

*LC50 rat, female: 390 mg / m<sup>3</sup>, 4 h*

*Method: OECD Test Guideline 403*

*The substance was tested in a form (ie, specific particle size distribution) which is of the forms as they are marketed and used in all probability, is different. On the basis of the "split-entry" concept and the available data on the particle size during the final application of the material, a modified classification of the acute inhalation toxicity is warranted.*

*Subacute, subchronic and prolonged toxicity:*

*Hexamethylene-1,6-diisocyanate homopolymer*

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Application Route: Subacute inhalation toxicity study, rat

Method: OECD Test Guideline 412

Test concentrations - 4.3, 14.7 and 89.8 mg aerosols / m<sup>3</sup>

Exposure time - 3 weeks (6 hours a day, 5 days per week)

4.3 mg / m<sup>3</sup> without compensation tolerated concentration (NOEL)

14.7 mg / m<sup>3</sup> increase in lung weight,

89.8 mg / m<sup>3</sup> inflammatory changes in the respiratory tract.

Links to other organ damage except to the respiratory systems were raised.

Genotoxicity in vitro:

Hexamethylene-1,6-diisocyanate homopolymer

Test Type: Salmonella / microsome test (Ames test)

Result: No evidence of mutagenic effects.

Method: OECD Test Guideline 471

Test Type: Chromosome aberration test in vitro

Result: negative

Method: OECD Test Guideline 473

Test Type: point mutation in mammalian cells (HPRT test)

Result: negative

Method: OECD Test Guideline 476

For more information:

Hexamethylene-1,6-diisocyanate homopolymer

Special Features / Effects: If over-exposure - especially when spraying isocyanate paints without protective measures, there is the risk of concentration-dependent irritation of eyes, nose, throat and respiratory tract.

Delayed appearance of the complaints and development of hypersensitivity (difficult breathing, coughing, asthma) are possible. Hypersensitive persons may already be triggered at low isocyanate concentrations below the TLV value.

By prolonged contact with skin tanning and irritating effects are possible.

Animal experiments and other studies indicate that skin contact with diisocyanates in isocyanate sensitization and respiratory reactions may play a role.

· **Acute toxicity**

Harmful in contact with skin or if inhaled.

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

77-58-7 dibutyltin dilaurate

|      |      |                 |
|------|------|-----------------|
| Oral | LD50 | 175 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 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**

May damage fertility. May damage the unborn child.

· **STOT-single exposure**

May cause respiratory irritation.

· **STOT-repeated exposure**

May cause damage to the hearing organs through prolonged or repeated exposure.

· **Aspiration hazard**

May be fatal if swallowed and enters airways.

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**Trade name: HADALAN HV Uni 30DD**

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## SECTION 12: Ecological information

### · 12.1 Toxicity

Xylene CAS-No. 1330-20-7

acute toxicity

fish

Species: *Pimephales promelas*

Exposure time: 96 h

Value Type: LC50

Value: 26.7 mg / l

Toxicity to daphnia and other aquatic invertebrates.

Species: *Daphnia magna*

Exposure time: 24 h

Value Type: EC50

toxicity

Acute toxicity to fish:

Hexamethylene-1,6-diisocyanate homopolymer

LC50 > 100 mg / l

Species: *Danio rerio* (Zebrafish)

Exposure time: 96 h

Method: OECD Test Guideline 203

Sample preparation because of the reactivity of the substance with water:

Ultra turrax: 60 sec 8000 rpm, 24 magnetic stirrer; filtration.

Acute Toxicity to daphnia:

Hexamethylene-1,6-diisocyanate homopolymer

EC50 > 100 mg / l

Species: *Daphnia magna* (water flea)

Exposure time: 48 h

Method: OECD Test Guideline 202

Sample preparation because of the reactivity of the substance with water:

Ultra turrax: 60 sec 8000 rpm, 24 magnetic stirrer; filtration.

Acute Toxicity to algae:

Hexamethylene-1,6-diisocyanate homopolymer

IC50 > 100 mg / l

Tested to: *Scenedesmus subspicatus* Duration of test: 72 h

Method: OECD Test Guideline 201

Sample preparation because of the reactivity of the substance with water:

Ultra turrax: 60 sec 8000 rpm, 24 magnetic stirrer; filtration.

Acute Toxicity to bacteria:

Hexamethylene-1,6-diisocyanate homopolymer

EC50 > 1000 mg / l

Tested on: activated sludge test time: 3 h

Method: OECD Test Guideline 209

· **Aquatic toxicity:** No further relevant information available.

### · 12.2 Persistence and degradability

Xylene CAS-No. 1330-20-7

Biodegradation

Notes: Readily biodegradable.

bioaccumulation

Notes: Bioaccumulation is not expected.

Mobility in soil

Notes: No information available.

Hexamethylene-1,6-diisocyanate homopolymer

Biodegradation: 0%, 28 d, i.e. not readily biodegradable

Method: OECD Guideline 301 C

For more information on ecotoxicology:

The resin reacts with water at the interface to form carbon dioxide at a fixed, high-melting and insoluble reaction product (polyurea). This reaction is accelerated by surfactants (eg detergents) or water-soluble solvents. Polyurea is inert Previous experience and non-degradable.

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- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **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.*
- **European waste catalogue**

|           |   |
|-----------|---|
| 08 01 11* | waste paint and varnish containing organic solvents or other hazardous substances |
|-----------|---|

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

### SECTION 14: Transport information

- |   |                               |
|---|-------------------------------|
| · <b>14.1 UN-Number</b>   | UN1139                        |
| · <b>ADR, IMDG, IATA</b>  |                               |
| · <b>14.2 UN proper shipping name</b>   | 1139 COATING SOLUTION mixture |
| · <b>ADR</b>  | COATING SOLUTION mixture      |
| · <b>IMDG, IATA</b>   |                               |
| · <b>14.3 Transport hazard class(es)</b>  |                               |
| · <b>ADR, IMDG, IATA</b>  |                               |
|  |                               |
| · <b>Class</b>  | 3 Flammable liquids.          |
| · <b>Label</b>  | 3                             |
| · <b>14.4 Packing group</b>   | III                           |
| · <b>ADR, IMDG, IATA</b>  |                               |
| · <b>14.5 Environmental hazards:</b>  |                               |
| · <b>Marine pollutant:</b>  | No                            |
| · <b>14.6 Special precautions for user</b>  | Warning: Flammable liquids.   |
| · <b>Hazard identification number (Kemler code):</b>                                | 30                            |
| · <b>EMS Number:</b>  | F-E, <u>S-D</u>               |
| · <b>Stowage Category</b>   | A                             |
| · <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>    | Not applicable.               |

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· **Transport/Additional information:**· **ADR**· **Limited quantities (LQ)**

5L

· **Excepted quantities (EQ)**

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

· **Transport category**

3

· **Tunnel restriction code**

D/E

· **IMDG**· **Limited quantities (LQ)**

5L

· **Excepted quantities (EQ)**

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

· **UN "Model Regulation":**

UN 1139 COATING SOLUTION MIXTURE, 3, III

### SECTION 15: Regulatory information

· **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**· **Directive 2012/18/EU**· **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, 20, 30· **Regulation (EU) No 649/2012**

77-58-7 dibutyltin dilaurate

Annex I Part I

· **National regulations:**· **Technical instructions (air):**

| Class | Share in % |
|-------|------------|
| I     | 0,1        |
| NK    | 75,0       |

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

The product is subject to Appendix 2 of the Chemical Prohibition Ordinance (ChemVerbotsV) - requirements in Terms of levy

· **VOC (EU)** 695.6 g/l· **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**

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H311 Toxic in contact with skin.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

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

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Trade name: **HADALAN HV Uni 30DD**

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- H319 Causes serious eye irritation.  
 H330 Fatal if inhaled.  
 H332 Harmful if inhaled.  
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
 H335 May cause respiratory irritation.  
 H341 Suspected of causing genetic defects.  
 H360FD May damage fertility. May damage the unborn child.  
 H372 Causes damage to organs through prolonged or repeated exposure.  
 H373 May cause damage to organs through prolonged or repeated exposure.  
 H412 Harmful 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)  
 IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)  
 ICAO: International Civil Aviation Organisation  
 ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)  
 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)  
 DNEL: Derived No-Effect Level (REACH)  
 PNEC: Predicted No-Effect Concentration (REACH)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 PBT: Persistent, Bioaccumulative and Toxic  
 vPvB: very Persistent and very Bioaccumulative  
 Flam. Liq. 2: Flammable liquids – Category 2  
 Flam. Liq. 3: Flammable liquids – Category 3  
 Acute Tox. 3: Acute toxicity - oral – Category 3  
 Acute Tox. 4: Acute toxicity - dermal – Category 4  
 Acute Tox. 1: Acute toxicity - inhalation – Category 1  
 Skin Irrit. 2: Skin corrosion/irritation – Category 2  
 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
 Resp. Sens. 1: Respiratory sensitisation – Category 1  
 Skin Sens. 1: Skin sensitisation – Category 1  
 Muta. 2: Germ cell mutagenicity – Category 2  
 Repr. 1B: Reproductive toxicity – Category 1B  
 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
 STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1  
 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2  
 Asp. Tox. 1: Aspiration hazard – Category 1  
 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

GB