

## 1 Identification of the substance/mixture and of the company/undertaking

- **Product identifier**
- **Trade name:** HADALAN HVI 30DD
- **Article number:** 50212 A
- **Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the preparation**  
1-component light-resistant and transparent adhesion agent for glass and ceramic tiles
- **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
- **Emergency telephone number:**  
Gifteinformationszentrum Nord (GIZ Nord) Universität Göttingen,  
Tel.: 0551-19240

## 2 Hazards identification

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



GHS02 flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.

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- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
  - **Hazard description:** F Highly flammable
  - **Information concerning particular hazards for human and environment:** R 11 Highly flammable.
  - **Classification system:**  
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

- **Label elements**

- **Labelling according to EU guidelines:**  
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

- **Code letter and hazard designation of product:**



F Highly flammable

- **Risk phrases:** 11 Highly flammable.
- **Safety phrases:**  
7/9 Keep container tightly closed and in a well-ventilated place.  
16 Keep away from sources of ignition - No smoking.  
46 If swallowed, seek medical advice immediately and show this container or label.  
56 Dispose of this material and its container to hazardous or special waste collection point.

(Contd. on page 2)

Printing date 08.07.2013

Revision: 08.07.2013

Trade name: **HADALAN HVI 30DD**







(Contd. of page 1)

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

### 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:**  
Mixture of substances listed below with additions that are not subject to classification according to EC directives:

- **Dangerous components:**

CAS: 64-17-5 EINECS: 200-578-6	ethanol  F R11  Flam. Liq. 2, H225	50-100%
CAS: 78-93-3 EINECS: 201-159-0	butanone  Xi R36;  F R11 R66-67  Flam. Liq. 2, H225;  Eye Irrit. 2, H319; STOT SE 3, H336	< 2.5%

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

### 4 First aid measures

- **Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **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.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** CO<sub>2</sub>, powder or water spray. Fight larger fire with alcohol-resistant foam.
- **Special hazards arising from the substance or mixture** Can form explosive gas-air mixtures.
- **Advice for firefighters**
- **Protective equipment:** Wear self-contained breathing apparatus and protective clothing.
- **Additional information**  
Collect contaminated firefighting water separately, must not be discharged into drains.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**  
Prevent seepage into sewage system, workpits and cellars.  
Do not allow to enter sewers/ surface or ground water.

(Contd. on page 3)

**Trade name: HADALAN HVI 30DD**

(Contd. of page 2)

- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Ensure adequate ventilation.
- **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.

## 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**  
Keep container tightly closed, open and handle carefully.  
Ensure good ventilation / exhaustion at the workplace.  
Ensure good ventilation in the bottom region (Heavier than air), provide.
- **Information about fire - and explosion protection:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.  
Fumes can combine with air to form an explosive mixture.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Store only in the original receptacle.  
Store in a cool location.
- **Information about storage in one common storage facility:**  
Do not store together with oxidizing and acidic materials.  
Store away from oxidizing agents.
- **Further information about storage conditions:**  
Keep container tightly sealed.  
Store in cool, dry conditions in well sealed receptacles.
- **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

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

- **Control parameters**

- **Ingredients with limit values that require monitoring at the workplace:**

<b>64-17-5 ethanol (50-100%)</b>	
WEL	Long-term value: 1920 mg/m <sup>3</sup> , 1000 ppm
<b>78-93-3 butanone (&lt;0.5%)</b>	
WEL	Short-term value: 899 mg/m <sup>3</sup> , 300 ppm
	Long-term value: 600 mg/m <sup>3</sup> , 200 ppm
	Sk, BMGV

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

- **Exposure controls**

- **Personal protective equipment:**

- **General protective and hygienic measures:** Wash hands before breaks and at the end of work.

- **Respiratory protection:**

In inadequately ventilated places respirator with filter A2.

In TLV is exceeded use self-contained breathing apparatus.

(Contd. on page 4)

**Trade name: HADALAN HVI 30DD**

(Contd. of page 3)

· **Protection of hands:**

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

Protective gloves made of rubber, nitrile rubber, neoprene or butyl rubber.

· **Material of gloves**

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

· **Penetration time of glove material**

The exact break 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

## 9 Physical and chemical properties

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

· **General Information**

· **Appearance:**

<b>Form:</b>	Fluid
<b>Colour:</b>	Colourless
<b>Odour:</b>	Alcohol-like

· **Change in condition**

<b>Melting point/Melting range:</b>	-114.5 °C
<b>Boiling point/Boiling range:</b>	78 °C

· **Flash point:** 13 °C

· **Ignition temperature:** 425 °C

· **Self-igniting:** Product is not selfigniting.

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· **Explosion limits:**

<b>Lower:</b>	3.5 Vol %
<b>Upper:</b>	15 Vol %

· **Vapour pressure at 20 °C:** 59 hPa

· **Density at 20 °C:** 0.81 g/cm<sup>3</sup>

· **Solubility in / Miscibility with water:** Fully miscible.

· **Solvent content:**

· **Organic solvents:** > 95 %

· **Other information** No further relevant information available.

## 10 Stability and reactivity

· **Reactivity**

· **Chemical stability**

· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

(Contd. on page 5)

Printing date 08.07.2013

Revision: 08.07.2013

Trade name: **HADALAN HVI 30DD**

(Contd. of page 4)

- **Possibility of hazardous reactions**  
Alkali-/Erdalkalimetallen reactions with evolution of hydrogen. Reacts with peroxides, oxidizing agents.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

### 11 Toxicological information

- **Information on toxicological effects**  
Ingestion:  
Ethanol: LD50 rat 6200 mg / kg  
Butan-1-ol: LD50 rat 790 mg / kg  
inhalation:  
Ethanol: LC50 Rat 124.7 mg / l 4 h  
Butan-1-ol: LC50 Rat > 24 mg / l 4 h  
Skin absorption:  
Butan-1-ol: LD50 rabbit 3.400 mg / kg  
(3 Glycidoxypropyl) trimethoxysilane:  
LD50 (oral, rat): 8030mg/kg, LD50 (dermal, rabbit): 4248 mg / kg
- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** Severely irritating to the skin by degreasing.
- **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.

### 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability**  
Biodegradation: ethanol: 84% 20 d; Readily biodegradable  
Butan-1-ol: 98% 19 d; OECD 301 E, Readily biodegradable  
Toxicity to fish: ethanol: LC50 *Leuciscus idus melanotus* 8.150 mg / l 48 h  
Butan-1-ol: LC50 *Pimephales promelas* 1,730 mg / l 96 h; literature value  
Daphnia toxicity: ethanol: EC50 *Daphnia magna* 9268-14221 mg / l 48 h
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:** Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

### 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- **European waste catalogue**

14 06 03*	other solvents and solvent mixtures
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(Contd. on page 6)

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

Printing date 08.07.2013


Revision: 08.07.2013

Trade name: **HADALAN HVI 30DD**

(Contd. of page 5)

- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### 14 Transport information

· <b>UN-Number</b>	
· <b>ADR, IMDG, IATA</b>	1139
· <b>UN proper shipping name</b>	
· <b>ADR</b>	1139 COATING SOLUTION (vapour pressure at 50 °C not more than 110 kPa)
· <b>IMDG, IATA</b>	COATING SOLUTION
· <b>Transport hazard class(es)</b>	
· <b>ADR, IMDG, IATA</b>	
	
· <b>Class</b>	3 Flammable liquids.
· <b>Label</b>	3
· <b>Packing group</b>	
· <b>ADR, IMDG, IATA</b>	II
· <b>Environmental hazards:</b>	
· <b>Marine pollutant:</b>	No
· <b>Special precautions for user</b>	Warning: Flammable liquids.
· <b>Danger code (Kemler):</b>	33
· <b>EMS Number:</b>	F-E,S-E
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>UN "Model Regulation":</b>	UN1139, COATING SOLUTION (vapour pressure at 50 °C not more than 110 kPa), 3, II

### 15 Regulatory information

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

Class	Share in %
III	97.5

- **Waterhazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 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.

(Contd. on page 7)

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**Trade name: HADALAN HVI 30DD**

(Contd. of page 6)

**· Relevant phrases***H225 Highly flammable liquid and vapour.**H319 Causes serious eye irritation.**H336 May cause drowsiness or dizziness.**R11 Highly flammable.**R36 Irritating to eyes.**R66 Repeated exposure may cause skin dryness or cracking.**R67 Vapours may cause drowsiness and dizziness.***· 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 Organization**ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (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 Harmonized System of Classification and Labelling of Chemicals*

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