

**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 Velo-Seal, Komp.B
- **Article number:** 41109B
- **UFI:** YC13-E0AJ-U00D-TDMM
- **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**  
Solvent-free, 2-component, high-speed sealing and wear layer, Comp. B
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Siefert 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@siefert.de
- **1.4 Emergency telephone number:**  
Giftnormationszentrum 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**



GHS09 environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



GHS07

Acute Tox. 4	H332 Harmful if inhaled.
Skin Sens. 1	H317 May cause an allergic skin reaction.
STOT SE 3	H335 May cause respiratory irritation.

- **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**



GHS07



GHS09

- **Signal word** Warning

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· **Hazard-determining components of labelling:**

2-Oxepanone, polymer with 1,6-diisocyanatohexane and 1,6-hexanediol

Hexanedioic acid, polymer with 1,4-butanediol, 1,6-diisocyanatohexane, 2,2-dimethyl-1,3-propanediol and 1,6-hexanediol

Hexamethylene diisocyanate, oligomers

hexamethylene diisocyanate

· **Hazard statements**

H332 Harmful if inhaled.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

H411 Toxic to aquatic life with long lasting effects.

· **Precautionary statements**

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

P280 Wear protective gloves / eye 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.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

· **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: 164250-92-4	2-Oxepanone, polymer with 1,6-diisocyanatohexane and 1,6-hexanediol ⚠ Aquatic Chronic 2, H411; ⚠ Acute Tox. 4, H332; Skin Sens. 1B, H317; STOT SE 3, H335	50-100%
CAS: 29891-05-2	Hexanedioic acid, polymer with 1,4-butanediol, 1,6-diisocyanatohexane, 2,2-dimethyl-1,3-propanediol and 1,6-hexanediol ⚠ Acute Tox. 4, H332; Skin Sens. 1B, H317; STOT SE 3, H335; Aquatic Chronic 3, H412	10-25%
CAS: 28182-81-2	Hexamethylene diisocyanate, oligomers ⚠ Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335	2.5-10%
CAS: 822-06-0 EINECS: 212-485-8	hexamethylene diisocyanate ⚠ Acute Tox. 3, H311; Acute Tox. 1, H330; ⚠ Resp. Sens. 1, H334; ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	<0.25%

· **Additional information:**

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

Hexamethylene-1,6-diisocyanate homopolymer

EC no.: 500-060-2

REACH registration number: 01-2119485796-17-0000, 01-2119485796-17-0001

CAS No.: 28182-81-2

Hexamethylene-1,6-diisocyanate

INDEX no.: 615-011-00-1

REACH registration number: 01-2119457571-37-0000

CAS No.: 822-06-0

Specific limit concentrations (GHS):

Resp. Sens. 1 H334&gt; = 0.5%

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Skin Sens. 1 H317> = 0.5%

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### SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:** Immediately remove any clothing soiled by the product.
- **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:**  
Use fire extinguishing methods suitable to surrounding conditions.  
Foam, carbon dioxide, dry chemical, water mist, spray jet.
- **For safety reasons unsuitable extinguishing agents:** Full jet of water.
- **5.2 Special hazards arising from the substance or mixture**  
In case of fire: Formation of carbon monoxide, nitrogen oxides and isocyanate vapors and traces of hydrogen cyanide possible.
- **5.3 Advice for firefighters**
- **Protective equipment:**  
Mount respiratory protective device.  
Do not inhale explosion and fire gases.  
Wear self-contained breathing apparatus.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected people away.
- **6.2 Environmental precautions:**  
Do not allow product to reach sewage system or any water course.  
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.
- **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.

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Prevent formation of aerosols.

Avoid contact with skin and eyes.

· **Information about fire - and explosion protection:** No special measures required.· **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:** Keep away from food.· **Further information about storage conditions:**

Keep container tightly sealed.

Close opened containers carefully to prevent reaction with humidity.

· **Storage class:** Storage class (TRGS 510): 10: Flammable liquids· **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:****822-06-0 hexamethylene diisocyanate (<0.25%)**WEL Short-term value: 0.07 mg/m<sup>3</sup>Long-term value: 0.02 mg/m<sup>3</sup>

Sen; as -NCO

· **DNELs**

Hexamethylene diisocyanate, oligomerization product (uretdione type):

Workers inhalation Long-term local effects 0.35 mg / m<sup>3</sup> Most critical endpoint: irritation (respiratory tract)Workers Inhalation Acute - local effects 0.7 mg / m<sup>3</sup> Most critical endpoint: irritation (respiratory tract)

Workers

Dermal long-term local effects No quantitative risk assessment possible. Most critical endpoint: Sensitization (skin) worker Dermal acute - local effects No quantitative risk assessment possible. Most critical endpoint: sensitization (skin)

· **PNECs**

Hexamethylene diisocyanate, oligomerization product (uretdione type):

Fresh water &gt; 0.05 mg / l

Fresh water sediment &gt; 1.33 mg / kg dry weight

Sea water &gt; 0.005 mg / l

Marine sediment &gt; 0.133 mg / kg dry weight

Wastewater treatment plant 55.6 mg / l

Soil &gt; 0.066 mg / kg dry weight

Oral Not relevant

· **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:** Not required with good ventilation.· **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

Suitable materials for protective gloves; EN 374:

Butyl rubber - IIR: thickness &gt; = 0.5mm; Breakthrough time &gt; = 480min.

Fluororubber - FKM: thickness &gt; = 0.4mm; Breakthrough time &gt; = 480min.

Multilayer glove - PE / EVAL / PE; Breakthrough time &gt; = 480 min.

Recommendation: Dispose of contaminated gloves.

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- **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:** Goggles recommended during refilling

### 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>	Colourless
· <b>Odour:</b>	Weak, characteristic
· <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>	>300 °C

- **Flash point:** 184 °C

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

- **Decomposition temperature:** Not determined.

- **Auto-ignition temperature:** Product is not selfigniting.

- **Explosive properties:** Product does not present an explosion hazard.

- **Explosion limits:**

· <b>Lower:</b>	Not determined.
· <b>Upper:</b>	Not determined.

- **Vapour pressure at 20 °C:** 16 hPa

· <b>Density at 20 °C:</b>	1.12 g/cm <sup>3</sup>
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.

- **Solubility in / Miscibility with**

· **water:** reagiert mit Wasser

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

- **Viscosity:**

· <b>Dynamic at 20 °C:</b>	3500 mPas
· <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 CO<sub>2</sub> development in closed containers, pressure build-up, 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**

*Acute toxicity, oral:*

*Hexamethylene 1,6-diisocyanate homopolymer*

*LD50 rat: > 5,000 mg / kg*

*Acute toxicity, 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 fabric has been tested in a form (i.e. special particle size distribution) that is different from the forms as marketed and likely to be used. On the basis of the "split-entry" concept and the available data on particle size during the end use of the substance, a modified classification of acute inhalation toxicity is justified.*

*Subacute, subchronic and long-term toxicity:*

*Hexamethylene 1,6-diisocyanate homopolymer*

*Application Route: Subacute Inhalation Toxicity, Rat*

*Method: OECD Test Guideline 412*

*Test concentrations - 4.3; 14.7 and 89.8 mg aerosol / m<sup>3</sup>*

*Exposure time - 3 weeks*

*(6 hours a day, 5 days a week)*

*4.3 mg / m<sup>3</sup> harmlessly 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.*

*There were no indications of other organ damage apart from the respiratory organs.*

*Genotoxicity in vitro:*

*Hexamethylene 1,6-diisocyanate homopolymer*

*Test type: Salmonella / microsome test (Ames test)*

*Result: No evidence of a mutagenic effect.*

*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*

*More information:*

*Hexamethylene 1,6-diisocyanate homopolymer*

*Special properties / effects: In case of overexposure - especially when spraying of isocyanate-containing paints without protective measures - there is a risk of Concentration-dependent irritation to eyes, nose, throat and airways. Delayed Appearance of symptoms and development of hypersensitivity (breathing difficulties, Cough, asthma) are possible. In hypersensitive people, reactions can already occur at very low isocyanate concentrations can be triggered, even below the MAK value.*

*Long-term contact with the skin can cause tanning and irritation effects.*

*Animal experiments and other studies indicate that skin contact with*

*Diisocyanates play a role in isocyanate sensitization and respiratory reactions could.*

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- **Acute toxicity**  
Harmful if inhaled.
- **Primary irritant effect:**
- **Skin corrosion/irritation** weakly irritating
- **Serious eye damage/irritation** weakly irritating
- **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** 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**  
toxicity  
Acute fish toxicity:  
Hexamethylene 1,6-diisocyanate homopolymer  
LC50> 100 mg / l  
Species: *Danio rerio* (zebrafish)  
Exposure time: 96 h  
Method: OECD test guideline 203  
Sample preparation due to the reactivity of the substance with water:  
Ultra turrax: 60 sec. 8000 rpm; 24h magnetic stirrer; Filtration.  
Acute daphnia toxicity:  
Hexamethylene 1,6-diisocyanate homopolymer  
EC50> 100 mg / l  
Species: *Daphnia magna* (large water flea)  
Exposure time: 48 h  
Method: OECD Test Guideline 202  
Sample preparation due to the reactivity of the substance with water:  
Ultra turrax: 60 sec. 8000 rpm; 24h magnetic stirrer; Filtration.  
Acute algae toxicity:  
Hexamethylene 1,6-diisocyanate homopolymer  
IC50> 100 mg / l  
Tested at: *Scenedesmus subspicatus* Test duration: 72 h  
Method: OECD Test Guideline 201  
Sample preparation due to the reactivity of the substance with water:  
Ultra turrax: 60 sec. 8000 rpm; 24h magnetic stirrer; Filtration.  
Acute bacterial toxicity:  
Hexamethylene 1,6-diisocyanate homopolymer  
EC50> 1,000 mg / l  
Tested on: activated sludge Test duration: 3 h  
Method: OECD Test Guideline 209
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential**  
Hexamethylene 1,6-diisocyanate homopolymer  
Biodegradation: 0%, 28 days, i.e. not easily degradable  
Method: OECD test guideline 301 C  
Further information on ecotoxicology:  
The resin reacts with water at the interface with the formation of carbon dioxide to form a solid, high-melting and insoluble reaction product (polyurea). This reaction is strongly promoted by surface-active substances (e.g. liquid soaps) or water-soluble solvents. According to previous experience, polyurea is inert and not

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degradable.

· **12.4 Mobility in soil** No further relevant information available.· **Ecotoxicological effects:**· **Remark:** Toxic for fish· **Additional ecological information:**· **General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

WGK: 1

· **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 04 09\* | waste adhesives and sealants containing organic solvents or other hazardous substances

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

### SECTION 14: Transport information

· **14.1 UN-Number**· **ADR, IMDG, IATA**

UN3082

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

3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (HEXAMETHYLENE DIISOCYANATE, 2-Oxepanone, polymer with 1,6-diisocyanatohexane and 1,6-hexanediol)

· **IMDG, IATA**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (HEXAMETHYLENE DIISOCYANATE, 2-Oxepanone, polymer with 1,6-diisocyanatohexane and 1,6-hexanediol)

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

9 Miscellaneous dangerous substances and articles.

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· <b>Label</b>	9
· <b>IMDG</b>	
	
· <b>Class</b>	9 Miscellaneous dangerous substances and articles.
· <b>Label</b>	9
· <b>14.4 Packing group</b> · <b>ADR, IMDG, IATA</b>	III
· <b>14.5 Environmental hazards:</b>	Product contains environmentally hazardous substances: 2-Oxepanone, polymer with 1,6-diisocyanatohexane and 1,6-hexanediol
· <b>Special marking (ADR):</b>	Symbol (fish and tree)
· <b>Special marking (IATA):</b>	Symbol (fish and tree)
· <b>14.6 Special precautions for user</b>	Warning: Miscellaneous dangerous substances and articles.
· <b>Hazard identification number (Kemler code):</b>	90
· <b>EMS Number:</b>	F-A,S-F
· <b>Stowage Category</b>	A
· <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	No dangerous good in the sense of the transport regulations.
· <b>ADR</b>	
· <b>Limited quantities (LQ)</b>	5L
· <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <b>Transport category</b>	3
· <b>Tunnel restriction code</b>	-
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	5L
· <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <b>UN "Model Regulation":</b>	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (HEXAMETHYLENE DIISOCYANATE, 2-OXEPANONE, POLYMER WITH 1,6-DIISOCYANATOHXANE AND 1,6-HEXANEDIOL), 9, III

### 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 E2** Hazardous to the Aquatic Environment
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

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· **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:**

· **Waterhazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

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

· **VOC (EU)**

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

The EU limit value for this product is in the ready-to-use state: 140 g / l (2010). The product contains in ready-to-use condition: max. 10 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**

H302 Harmful if swallowed.

H311 Toxic in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

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.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

· **Recommended restriction of use**

Vom Europäischen Ausschuss der Verbände der Lack-, Druckfarben und Künstlerfarbenfabrikanten - CEPE - wird für isocyanathaltige Anstrichstoffe folgende Information gegeben: Verarbeitungsfertige Anstrichstoffe, die Isocyanate enthalten, können Reizwirkungen auf die Schleimhäute - besonders auf die Atmungsorgane - ausüben und Überempfindlichkeitsreaktionen auslösen. Beim Einatmen von Dämpfen oder Spritznebel besteht Gefahr einer Sensibilisierung. Beim Umgang mit isocyanathaltigen Anstrichstoffen sind alle Maßnahmen für lösemittelhaltige Anstrichstoffe sorgfältig zu beachten. Insbesondere dürfen Spritznebel und Dämpfe nicht eingeatmet werden. Allergiker, Asthmatiker sowie Personen, die zu Erkrankungen der Atemwege neigen, dürfen für Arbeiten mit isocyanathaltigen Anstrichstoffen nicht herangezogen werden.

· **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)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 3: Acute toxicity - dermal - Category 3

Acute Tox. 1: Acute toxicity - inhalation - Category 1

Acute Tox. 4: Acute toxicity - inhalation - Category 4

(Contd. on page 11)

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

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**Trade name: HADALAN Velo-Seal, Komp.B**

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*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**Skin Sens. 1B: Skin sensitisation – Category 1B**STOT SE 3: Specific target organ toxicity (single exposure) – Category 3**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*

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