

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

Printing date 05.03.2021

Revision: 03.03.2021

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

- **1.1 Product identifier**
- **Trade name:** **HADALAN VeloFlex, Komp. A**
- **Article number:** 41108A
- **UFI:** Y313-W08C-W00W-TCVE
- **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 primer and coating, flexible, Comp. A
- **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:**
Giftnformationszentrum 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**



GHS07

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

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**



GHS07

- **Signal word** Warning
- **Hazard-determining components of labelling:**
Aspartic acid, N,N-(methylenedi-4,1-cyclohexanediyl)bis-, tetraethyl ester
Aspartic acid, N,N-methylenebis(2-methyl-4,1-cyclohexanediyl)bis-, tetraethyl ester
Aspartic ester
- **Hazard statements**
H317 May cause an allergic skin reaction.

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H412 Harmful to aquatic life with long lasting effects.

· **Precautionary statements**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

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

P273 Avoid release to the environment.

P280 Wear protective gloves / eye protection.

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

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

· **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:** Mixture of the substances listed below with harmless additions· **Dangerous components:**

| | | |
|---------------------------------------|--|---------|
| CAS: 136210-30-5 ELINCS: 429-270-1 | Aspartic acid, N,N-(methylenedi-4,1-cyclohexanediyl)bis-, tetraethyl ester ⚠ Skin Sens. 1, H317; Aquatic Chronic 3, H412 | 50-100% |
| CAS: 136210-32-7 ELINCS: 412-060-9 | Aspartic acid, N,N-methylenebis(2-methyl-4,1-cyclohexanediyl)bis-, tetraethyl ester ⚠ Skin Sens. 1, H317; Aquatic Chronic 3, H412 | 10-25% |
| CAS: 152637-10-0 | Aspartic ester ⚠ Skin Sens. 1B, H317; Aquatic Chronic 3, H412 | 10-25% |
| CAS: 623-91-6 EINECS: 210-819-7 | diethyl fumarate ⚠ Acute Tox. 4, H302 | 1.0-5% |

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

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:**

Use fire extinguishing methods suitable to surrounding conditions.

Carbon dioxide (CO₂), foam, extinguishing powder, with larger fires also water spray.· **For safety reasons unsuitable extinguishing agents:** Full water jet.· **5.2 Special hazards arising from the substance or mixture**

In the event of fire, carbon dioxide, carbon monoxide, nitrogen oxides and traces of hydrogen cyanide are produced. Do not inhale explosion and fire gases.

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- **5.3 Advice for firefighters**
- **Protective equipment:** Wear fully protective suit.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Remove people. Provide adequate ventilation.
- **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).
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:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store only in the unopened original container.
- **Information about storage in one common storage facility:**
Keep away from food and luxury items. Wash hands before breaks and at the end of work and use protective skin ointment. Store work clothes separately. Change contaminated or saturated clothing immediately.
- **Further information about storage conditions:** Protect from frost.
- **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:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **DNELs**
Aspartic acid, N, N' - (methylenedi-4,1-cyclohexanedyl) bis-, 1,1', 4,4'-tetraethyl ester Value type Exposure route
Worker (short-term value)
DNEL Inhalative, - local effects No hazard identified
DNEL Inhalative - systemic effects 112 mg / m³ air
Most critical endpoint: repeated dose toxicity orally
DNEL Dermal - local effects Medium risk (no limit value derived) Most critical endpoint: Sensitization (skin)
DNEL Dermal - systemic effects No hazard identified
Worker (long-term value)
DNEL Inhalation - local effects No hazard identified
DNEL Inhalative - systemic effects 28 mg / m³ air
Most critical endpoint: repeated dose toxicity orally

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DNEL Dermal - local effects Medium risk (no limit value derived) Most critical endpoint: Sensitization (skin)
DNEL Dermal - systemic effects 4 mg / kg body weight / day Most critical endpoint: repeated dose toxicity orally

*Workers**DNEL eye contact - local effects No hazard identified**General population (short-term value)**DNEL Inhalation - local effects No hazard identified**DNEL Inhalative - systemic effects 4.8 mg / m³ air Most critical endpoint: toxicity after repeated administration orally**DNEL Dermal - local effects Medium risk (no limit value derived) Most critical endpoint: Sensitization (skin)**DNEL Dermal - systemic effects 1.4 mg / kg body weight / day Most critical endpoint: repeated dose toxicity orally**DNEL Oral - systemic effects 1.4 mg / kg body weight / day Most critical endpoint: repeated dose toxicity orally**General population (long-term value)**DNEL Inhalation - local effects No hazard identified**DNEL Inhalative - systemic effects 4.8 mg / m³ air**Most critical endpoint: repeated dose toxicity orally**DNEL Dermal - local effects Medium risk (no limit value derived) Most critical endpoint: Sensitization (skin)**DNEL Dermal - systemic effects 1.4 mg / kg body weight / day Most critical endpoint: repeated dose toxicity orally**DNEL Oral - systemic effects 1.4 mg / kg body weight / day Most critical endpoint: repeated dose toxicity orally**General population**DNEL eye contact - local effects No hazard identified***· PNECs***Aspartic acid, N, N' - (methylenedi-4,1-cyclohexanediyl) bis-, 1,1', 4,4'-tetraethyl ester**Fresh water 0.00013 mg / l**Sea water 0.000013 mg / l**Water: Temporary release not applicable**Fresh water sediment 0.21 mg / kg dry weight**Marine sediment 0.02 mg / kg dry weight**Sewage treatment plant 31.1 mg / l**Soil 0.1 mg / kg dry weight**Air No hazard identified**Secondary poisoning Does not bioaccumulate***· Additional information:** *The lists valid during the making were used as basis.***· 8.2 Exposure controls****· Personal protective equipment:****· General protective and hygienic measures:***Immediately remove all soiled and contaminated clothing**Wash hands before breaks and at the end of work.***· 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 and when spraying***· 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.*

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Suitable materials for protective gloves; EN 374:

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

Recommendation: Dispose of contaminated gloves.

· **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:**

Form: Fluid

Colour: Yellowish

· **Odour:** Weak, characteristic

· **Odour threshold:** Not determined.

· **pH-value:** Not determined.

· **Change in condition**

Melting point/freezing point: Undetermined.

Initial boiling point and boiling range: 209 °C

· **Flash point:** 133 °C

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

· **Ignition temperature:** 350 °C

· **Decomposition temperature:** Not determined.

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

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

· **Explosion limits:**

Lower: Not determined.

Upper: Not determined.

· **Vapour pressure at 20 °C:** 2 hPa

· **Density at 20 °C:** 1.06 g/cm³

· **Relative density** Not determined.

· **Vapour density** Not determined.

· **Evaporation rate** Not determined.

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

Fully miscible.

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

· **Viscosity:**

Dynamic at 20 °C: 1,000-2,000 mPas

Kinematic: 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** Keine gefährliche Reaktion bei bestimmungsgemäßer Verwendung.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**
Keine gefährlichen Zersetzungsprodukte bei sachgemäßer Lagerung und Handhabung.

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

Acute toxicity, oral

Aspartic acid, N, N' - (methylenedi-4,1-cyclohexanediyl) bis-, 1,1', 4,4'-tetraethyl ester

LD50 rat: > 2,000 mg / kg

Method: Directive 67/548 / EEC, Annex V, B.1.

Toxicological studies on a comparable product.

Acute toxicity, dermal

Aspartic acid, N, N' - (methylenedi-4,1-cyclohexanediyl) bis-, 1,1', 4,4'-tetraethyl ester

LD50 rat: > 2,000 mg / kg

Method: Directive 67/548 / EEC, Annex V, B.3.

Toxicological studies on a comparable product.

Acute toxicity, inhalation

Aspartic acid, N, N' - (methylenedi-4,1-cyclohexanediyl) bis-, 1,1', 4,4'-tetraethyl ester

LC50 rat, male / female: > 4.224 mg / l, 4 h

Test atmosphere: dust / mist

Method: OECD Test Guideline 403

Toxicological studies on a comparable product.

Assessment: The substance or mixture has no acute inhalation toxicity

- **Acute toxicity** Based on available data, the classification criteria are not met.
- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **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** Based on available data, the classification criteria are not met.
- **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

Aspartic acid, N, N' - (methylenedi-4,1-cyclohexanediyl) bis-, 1,1', 4,4'-tetraethyl ester

Biodegradation: 13%, 28 days, i.e. not easily degradable

Method: OECD Test Guideline 301 F

Ecotoxicological studies on a comparable product

Biodegradation: 0%, 28 d, i.e. not potentially degradable

Method: OECD Test Guideline 302 C

Ecotoxicological studies on the product

· 12.3 Bioaccumulative potential

Aspartic acid, N, N' - (methylenedi-4,1-cyclohexanediyl) bis-, 1,1', 4,4'-tetraethyl ester

Bioconcentration factor (BCF): 1,872

Species: calculated value.

The substance hydrolyzes rapidly in water.

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- *An accumulation in aquatic organisms is not to be expected.*
- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Harmful to 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.
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 04 09 Waste adhesives and sealants containing organic solvents or other hazardous substances contain*
- **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

- | | |
|---|--|
| <ul style="list-style-type: none"> · 14.1 UN-Number · ADR, IMDG, IATA | Void |
| <ul style="list-style-type: none"> · 14.2 UN proper shipping name · ADR, IMDG, IATA | Void |
| <ul style="list-style-type: none"> · 14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA · Class | Void |
| <ul style="list-style-type: none"> · 14.4 Packing group · ADR, IMDG, IATA | Void |
| <ul style="list-style-type: none"> · 14.5 Environmental hazards: | Not applicable. |
| <ul style="list-style-type: none"> · 14.6 Special precautions for user | Not applicable. |
| <ul style="list-style-type: none"> · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code | Not applicable. |
| <ul style="list-style-type: none"> · Transport/Additional information: | Not dangerous according to the above specifications. |
| <ul style="list-style-type: none"> · UN "Model Regulation": | Void |

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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.

· **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

· **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. 30 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.

H317 May cause an allergic skin reaction.

H412 Harmful 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)

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. 4: Acute toxicity - oral – Category 4

Skin Sens. 1: Skin sensitisation – Category 1

Skin Sens. 1B: Skin sensitisation – Category 1B

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