



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

### 1.1 Product identifier

**BluePrint ADG05522 Universal sealant**  
**Article number: ADG05522**

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

#### 1.2.1 Relevant uses

Sealing material

#### 1.2.2 Uses advised against

None known.

### 1.3 Details of the supplier of the safety data sheet

**Company** Ferdinand Bilstein GmbH + Co. KG  
Wilhelmstr. 47  
58256 Ennepetal / GERMANY  
Phone +49 2333 911-0  
Fax +49 2333 911-144  
Homepage [www.febi.com](http://www.febi.com)  
E-mail [info@febi.com](mailto:info@febi.com)

#### Address enquiries to

**Technical information** [info@febi.com](mailto:info@febi.com)

**Safety Data Sheet** [info@febi.com](mailto:info@febi.com)

### 1.4 Emergency telephone number

**Advisory body** +49 (0)89-19240 (24h) (English)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture [REGULATION (EC) No 1272/2008]

No classification.

### 2.2 Label elements

The product does not require a hazard warning label in accordance with regulation (EC) No 1272/2008 (CLP).

**Hazard pictograms** none

**Signal word** none

**Hazard statements** none

**Special labelling** EUH210 Safety data sheet available on request.

### 2.3 Other hazards

**Environmental hazards** The mixture contains the following substances which fulfill the PBT and/or vPvB criteria according to REACH criteria, Annex XIII: CAS 541-02-6/ CAS 540-97-6

**Other hazards** Further hazards were not determined with the current level of knowledge.

## SECTION 3: Composition / Information on ingredients

### 3.1 Substances

not applicable

### 3.2 Mixtures

The product is a mixture.

Range [%]	Substance
0,1 - < 1 *	Distillates (petroleum), hydrotreated middle (containing < 3% DMSO-extract)
	CAS: 64742-46-7, EINECS/ELINCS: 265-148-2, EU-INDEX: 649-221-00-X, Reg-No.: 01-2119489867-12-XXXX
	GHS/CLP: Acute Tox. 4: H332 - Asp. Tox. 1: H304 - Skin Irrit. 2: H315 - Aquatic Chronic 2: H411
0,1 - < 1	Acetic acid
	CAS: 64-19-7, EINECS/ELINCS: 200-580-7, EU-INDEX: 607-002-00-6, Reg-No.: 01-2119475328-30-XXXX
	GHS/CLP: Flam. Liq. 3: H226 - Skin Corr. 1A: H314
0,1 - < 1	Decamethylcyclopentasiloxane (non-classified PBT/vPvB substance)
	CAS: 541-02-6, EINECS/ELINCS: 208-764-9, Reg-No.: 01-2119511367-43
0,1 - < 1	Dodecamethylcyclohexasiloxane (non-classified PBT/vPvB substance)
	CAS: 540-97-6, EINECS/ELINCS: 208-762-8, Reg-No.: 01-2119517435-42-XXXX

#### Comment on component parts

\*) NOTE N

SVHC (Candidate List of Substances of Very High Concern for authorisation)  $\geq$  0.1%  
CAS 541-02-6 - Decamethylcyclopentasiloxane (non-classified PBT/vPvB substance)  
CAS 540-97-6 - Dodecamethylcyclohexasiloxane (non-classified PBT/vPvB substance)  
For full text of H-statements: see SECTION 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

<b>General information</b>	Take off contaminated clothing and wash before reuse.
<b>Inhalation</b>	Ensure supply of fresh air. In the event of symptoms seek medical treatment.
<b>Skin contact</b>	Take up product with suitable papertissues before. When in contact with the skin, clean with soap and water. Consult a doctor if skin irritation persists.
<b>Eye contact</b>	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
<b>Ingestion</b>	Seek medical advice immediately. Do not induce vomiting. Rinse mouth.

### 4.2 Most important symptoms and effects, both acute and delayed

No information available.

### 4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.  
Forward this sheet to your doctor.

## SECTION 5: Fire-fighting measures

### 5.1 Extinguishing media

<b>Suitable extinguishing media</b>	Foam, dry powder, water spray jet, carbon dioxide.
<b>Extinguishing media that must not be used</b>	Full water jet.

### 5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.

### 5.3 Advice for firefighters

Use self-contained breathing apparatus.  
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.



## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

### 6.2 Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers).  
Do not discharge into the drains/surface waters/groundwater.

### 6.3 Methods and material for containment and cleaning up

Pick up with absorbent material (e.g. sand, universal absorbent, diatomaceous earth).  
Dispose of absorbed material in accordance within the regulations.

### 6.4 Reference to other sections

See SECTION 8+13

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Use only in well-ventilated areas.

Wash hands before breaks and after work.  
Use barrier skin cream.  
Do not eat, drink or smoke when using this product.  
Take off contaminated clothing and wash before reuse.

### 7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.  
Do not use metal containers.

Protect from heat/overheating.  
Keep in a cool place. Store in a dry place.  
Recommended storage temperature: +5°C - +25°C

### 7.3 Specific end use(s)

This product is not recommended for use in joints which will be in contact with either pure oxygen or steam.



## SECTION 8: Exposure controls / personal protection

### 8.1 Control parameters

#### Ingredients with occupational exposure limits to be monitored (GB)

Substance
Acetic acid
CAS: 64-19-7, EINECS/ELINCS: 200-580-7, EU-INDEX: 607-002-00-6, Reg-No.: 01-2119475328-30-XXXX
Long-term exposure: 10 ppm, 25 mg/m <sup>3</sup>
Short-term exposure (15-minute): 15 ppm, 37 mg/m <sup>3</sup>
Decamethylcyclopentasiloxane (non-classified PBT/vPvB substance)
CAS: 541-02-6, EINECS/ELINCS: 208-764-9, Reg-No.: 01-2119511367-43
Long-term exposure: 10 ppm, TWA - DCC OEL

#### Ingredients with occupational exposure limits to be monitored (EU)

Substance / EC LIMIT VALUES
Acetic acid
CAS: 64-19-7, EINECS/ELINCS: 200-580-7, EU-INDEX: 607-002-00-6, Reg-No.: 01-2119475328-30-XXXX
Eight hours: 10 ppm, 25 mg/m <sup>3</sup>
Short-term (15-minute): 20 ppm, 50 mg/m <sup>3</sup>

#### DNEL

Substance
Decamethylcyclopentasiloxane (non-classified PBT/vPvB substance), CAS: 541-02-6
Industrial, inhalative, Acute - systemic effects, 97,3 mg/m <sup>3</sup> ,
Industrial, inhalative, Acute - local effects, 24,2 mg/m <sup>3</sup> ,
Industrial, inhalative, Long-term - local effects, 24,2 mg/m <sup>3</sup> ,
Industrial, inhalative, Long-term - systemic effects, 97,3 mg/m <sup>3</sup> ,
general population, inhalative, Long-term - local effects, 4,3 mg/m <sup>3</sup> ,
general population, inhalative, Acute - systemic effects, 17,3 mg/m <sup>3</sup> ,
general population, inhalative, Long-term - systemic effects, 17,3 mg/m <sup>3</sup> ,
general population, oral, Acute - systemic effects, 5 mg/kg bw/d,
general population, oral, Long-term - systemic effects, 5 mg/kg bw/d,
general population, inhalative, Acute - local effects, 4,3 mg/m <sup>3</sup> ,
Dodecamethylcyclohexasiloxane (non-classified PBT/vPvB substance), CAS: 540-97-6
Industrial, inhalative, Long-term - systemic effects, 11 mg/m <sup>3</sup> ,
Industrial, inhalative, Long-term - local effects, 1,22 mg/m <sup>3</sup> ,
Industrial, inhalative, Acute - local effects, 6,1 mg/m <sup>3</sup> ,
general population, oral, Acute - local effects, 1,7 mg/kg bw/day,
general population, inhalative, Long-term - systemic effects, 2,7 mg/m <sup>3</sup> ,
general population, inhalative, Long-term - local effects, 0,3 mg/m <sup>3</sup> ,
general population, inhalative, Acute - local effects, 1,5 mg/m <sup>3</sup> ,
Acetic acid, CAS: 64-19-7
Industrial, inhalative, Long-term - local effects, 25 mg/m <sup>3</sup> ,
Industrial, inhalative, Acute - local effects, 25 mg/m <sup>3</sup> ,
general population, inhalative, Long-term - local effects, 25 mg/m <sup>3</sup> ,
general population, inhalative, Acute - local effects, 25 mg/m <sup>3</sup> ,

#### PNEC



Substance
Decamethylcyclotrasiloxane (non-classified PBT/vPvB substance), CAS: 541-02-6
sediment (seawater), 0,239 mg/kg dw,
freshwater, 0,0012 mg/l,
sediment (freshwater), 2,39 mg/kg dw,
sewage treatment plants (STP), > 10 mg/l,
soil, 3,34 mg/kg dw,
seawater, 0,00012 mg/l,
Dodecamethylcyclohexasiloxane (non-classified PBT/vPvB substance), CAS: 540-97-6
sewage treatment plants (STP), 1 mg/L,
sediment (freshwater), 13 mg/kg sediment dw,
oral (food), 66,7 mg/kg,
sediment (seawater), 1,3 mg/kg sediment dw,
soil, 3,77 mg/kg soil dw,
Acetic acid, CAS: 64-19-7
freshwater, 3,058 mg/l,
sewage treatment plants (STP), 85 mg/l,
soil, 0,478 mg/kg,
sediment (seawater), 1,136 mg/kg,
sediment (freshwater), 11,36 mg/kg,
seawater, 0,3058 mg/l,

## 8.2 Exposure controls

<b>Additional advice on system design</b>	Ensure adequate ventilation on workstation.
<b>Eye protection</b>	safety glasses (EN 166:2001)
<b>Hand protection</b>	The details concerned are recommendations. Please contact the glove supplier for further information. > 0,4 mm: Viton, >480 min (EN 374-1/-2/-3).
<b>Skin protection</b>	light protective clothing
<b>Other</b>	Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier.
<b>Respiratory protection</b>	No dangerous reactions known if used as directed.
<b>Thermal hazards</b>	not applicable
<b>Delimitation and monitoring of the environmental exposition</b>	Comply with applicable environmental regulations limiting discharge to air, water and soil.



## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state	pasty thixotrope
Color	black
Odor	acetic
Odour threshold	No information available.
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	No information available.
Flash point [°C]	No information available.
Flammability (solid, gas) [°C]	125°C
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	No information available.
Density [g/ml]	1,01 - 1,04 (20 °C / 68,0 °F)
Bulk density [kg/m <sup>3</sup> ]	not applicable
Solubility in water	virtually insoluble
Solubility other solvents	No information available.
Partition coefficient [n-octanol/water]	No information available.
Kinematic viscosity	> 20,5 mm <sup>2</sup> /S (40°C)
Relative vapour density	No information available.
Evaporation speed	No information available.
Melting point [°C]	No information available.
Auto-ignition temperature	No information available.
Decomposition temperature [°C]	No information available.
Particle characteristics	No information available.

### 9.2 Other information

none

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No dangerous reactions known if used as directed.

### 10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

### 10.3 Possibility of hazardous reactions

Reactions with acids, alkalis and oxidizing agents.  
Reactions with reducing agents.

### 10.4 Conditions to avoid

Strong heating.  
Sensitive to moisture.



### **10.5 Incompatible materials**

See SECTION 10.3.

### **10.6 Hazardous decomposition products**

Acetic acid.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute oral toxicity

Product
Based on the available information, the classification criteria are not fulfilled.,
Substance
Decamethylcyclpentasiloxane (non-classified PBT/vPvB substance), CAS: 541-02-6
LD50, oral, Rat, > 24 134 mg/kg bw,
Dodecamethylcyclohexasiloxane (non-classified PBT/vPvB substance), CAS: 540-97-6
LD50, oral, Rat, > 2000 mg/kg (OECD 423),
Acetic acid, CAS: 64-19-7
LD50, oral, Rat, 3310 mg/kg,
Distillates (petroleum), hydrotreated middle (containing < 3% DMSO-extract), CAS: 64742-46-7
LD50, oral, > 5000 mg/kg (ECHA),

#### Acute dermal toxicity

Product
Based on the available information, the classification criteria are not fulfilled.,
Substance
Dodecamethylcyclohexasiloxane (non-classified PBT/vPvB substance), CAS: 540-97-6
LD50, dermal, Rat, > 2000 mg/kg (OECD 402),
Acetic acid, CAS: 64-19-7
LD50, dermal, Rabbit, 1060 mg/kg,
Distillates (petroleum), hydrotreated middle (containing < 3% DMSO-extract), CAS: 64742-46-7
LD50, dermal, > 2000 mg/kg (ECHA),

#### Acute inhalational toxicity

Product
Based on the available information, the classification criteria are not fulfilled.,
Substance
Decamethylcyclpentasiloxane (non-classified PBT/vPvB substance), CAS: 541-02-6
LD50, inhalativ (mist), Rat, 8,67 mg/l/4h,
Acetic acid, CAS: 64-19-7
LC50, inhalative, Rat, 40 mg/l (4 h),
Distillates (petroleum), hydrotreated middle (containing < 3% DMSO-extract), CAS: 64742-46-7
LC50, inhalative, 4,6 mg/l (ECHA),

<b>Serious eye damage/irritation</b>	Slight irritant effect. Based on the available information, the classification criteria are not fulfilled.
<b>Skin corrosion/irritation</b>	Based on the available information, the classification criteria are not fulfilled.
<b>Respiratory or skin sensitisation</b>	Based on the available information, the classification criteria are not fulfilled.
<b>Specific target organ toxicity — single exposure</b>	Based on the available information, the classification criteria are not fulfilled.
<b>Specific target organ toxicity — repeated exposure</b>	Based on the available information, the classification criteria are not fulfilled.





<b>Mutagenicity</b>	Based on the available information, the classification criteria are not fulfilled.
<b>Reproduction toxicity</b>	Based on the available information, the classification criteria are not fulfilled.
<b>Carcinogenicity</b>	Based on the available information, the classification criteria are not fulfilled.
<b>Aspiration hazard</b>	Based on the available information, the classification criteria are not fulfilled.
<b>General remarks</b>	

Toxicological data of complete product are not available.

## SECTION 12: Ecological information

### 12.1 Toxicity

Product
Based on the available information, the classification criteria are not fulfilled.,
Substance
Acetic acid, CAS: 64-19-7
LC50, (96h), Lepomis macrochirus, 75 mg/l,
LC50, (96h), Pimephales promelas, 88 mg/l,
EC50, (24h), Daphnia magna, 95 mg/l,
EC10, Pseudomonas putida, 1000 mg/l (0,5 h),
Distillates (petroleum), hydrotreated middle (containing < 3% DMSO-extract), CAS: 64742-46-7
EC50, Algae, 22 mg/l (ECHA),
EC50, (48h), Daphnia magna, 68 mg/l (ECHA),

### 12.2 Persistence and degradability

<b>Behaviour in environment compartments</b>	not determined
<b>Behaviour in sewage plant</b>	not determined
<b>Biological degradability</b>	not determined

### 12.3 Bioaccumulative potential

Product has having no bioaccumulation potential.

### 12.4 Mobility in soil

No information available.

### 12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

### 12.6 Endocrine disrupting properties

No information available.

### 12.7 Other adverse effects

Do not discharge product unmonitored into the environment.  
The product is insoluble in water.



## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

#### Product

Coordinate disposal with the disposal contractor/authorities if necessary.

#### Waste no. (recommended)

080410

#### Contaminated packaging

Uncontaminated packaging may be taken for recycling.  
Contaminated packing should be disposed of as product waste.

#### Waste no. (recommended)

150102  
150104

## SECTION 14: Transport information

### 14.1 UN number

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

### 14.2 UN proper shipping name

Transport by land according to ADR/RID NO DANGEROUS GOODS

Inland navigation (ADN) NO DANGEROUS GOODS

Marine transport in accordance with IMDG NOT CLASSIFIED AS "DANGEROUS GOODS"

Air transport in accordance with IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

### 14.3 Transport hazard class(es)

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable



#### 14.4 Packing group

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

#### 14.5 Environmental hazards

Transport by land according to ADR/RID no

Inland navigation (ADN) no

Marine transport in accordance with IMDG no

Air transport in accordance with IATA no

#### 14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

#### 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

not applicable

### SECTION 15: Regulatory information

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EEC-REGULATIONS 2008/98/EC 2000/532/EC; 2010/75/EU; 2004/42/EC; (EC) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EEC ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131; (EU) 517/2014

TRANSPORT-REGULATIONS ADR (2021); IMDG-Code (2021, 40. Amdt.); IATA-DGR (2021)

NATIONAL REGULATIONS (GB): EH40/2005 Workplace exposure limits (Second edition, published December 2011).

- Observe employment restrictions for people no

- VOC (2010/75/CE) not determined

#### 15.2 Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

### SECTION 16: Other information

#### 16.1 Hazard statements (SECTION 3)

H411 Toxic to aquatic life with long lasting effects.  
H315 Causes skin irritation.  
H304 May be fatal if swallowed and enters airways.  
H332 Harmful if inhaled.  
H314 Causes severe skin burns and eye damage.  
H226 Flammable liquid and vapour.



## 16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route  
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses  
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure  
ATE = acute toxicity estimate  
CAS = Chemical Abstracts Service  
CLP = Classification, Labelling and Packaging  
DMEL = Derived Minimum Effect Level  
DNEL = Derived No Effect Level  
EC50 = Median effective concentration  
ECB = European Chemicals Bureau  
EEC = European Economic Community  
EINECS = European Inventory of Existing Commercial Chemical Substances  
EL50 = Median effective loading  
ELINCS = European List of Notified Chemical Substances  
EmS = Emergency Schedules  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
IATA = International Air Transport Association  
IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk  
IC50 = Inhibition concentration, 50%  
IMDG = International Maritime Code for Dangerous Goods  
IUCLID = International Uniform Chemical Information Database  
IVIS = In vitro irritation score  
LC50 = Lethal concentration, 50%  
LD50 = Median lethal dose  
LC0 = lethal concentration, 0%  
LOAEL = lowest-observed-adverse-effect level  
LL50 = Median lethal loading  
LQ = Limited Quantities  
MARPOL = International Convention for the Prevention of Marine Pollution from Ships  
NOAEL = No Observed Adverse Effect Level  
NOEC = No Observed Effect Concentration  
PBT = Persistent, Bioaccumulative and Toxic substance  
PNEC = Predicted No-Effect Concentration  
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals  
STP = Sewage Treatment Plant  
TLV@TWA = Threshold limit value – time-weighted average  
TLV@STEL = Threshold limit value – short-time exposure limit  
VOC = Volatile Organic Compounds  
vPvB = very Persistent and very Bioaccumulative

## 16.3 Other information

Customs Tariff	not determined
Classification procedure	
Modified position	none