

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 /  
Rules and Regulations



Article No.: YM05000ALN10 BergerBond M1  
Print date: 24.01.2019 Revision date: 24.01.2019  
Version: 2.45 Issue date: 18.01.2019

US  
Page 1 / 8

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

### 1.1. Product identifier

Article No. (manufacturer/supplier) YM05000ALN10  
Trade name/designation BergerBond M1  
Stat.Warennummer 35061000

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

#### Relevant identified uses

paint and/or paint related material

#### Uses advised against

Product is not intended for consumer use.

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

#### supplier (manufacturer/importer/downstream user/distributor)

Berger-Seidle GmbH  
Parkettlacke - Klebstoffe - Bauchemie Telephone: +49 6359 / 8005-0  
Maybachstraße 2 Telefax: +49 6359 / 8005-50  
67269 Grünstadt  
Germany

#### Dept. responsible for information:

Laboratory

E-mail

sicherheitsdaten@berger-lacke.de

### 1.4. Emergency telephone number

Emergency telephone number Infotrac ID 82733: (USA domestic) 1 800 535 5053

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### GHS-US classification

### 2.2. Label elements

#### GHS-US labeling

#### Hazard pictograms

#### Hazard statements

not applicable

#### Precautionary statements

not applicable

#### Hazard components for labelling

#### Other information

If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use.

### 2.3. Other hazards

No information available.

#### Other information

If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use.

## SECTION 3: Composition / information on ingredients

### 3.2. Mixtures

Description Installation products, methoxysilane-containing

#### Hazardous ingredients

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 /  
Rules and Regulations



Article No.: YM05000ALN10 BergerBond M1  
Print date: 24.01.2019 Revision date: 24.01.2019  
Version: 2.45 Issue date: 18.01.2019

US  
Page 2 / 8

## GHS-US classification

CAS No.	Designation // Remark	Wt %
2768-02-7	ethenyl(trimethoxy)silane	1 - 2,5

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

#### In case of inhalation

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

#### Following skin contact

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

#### After eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

#### After ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

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

In all cases of doubt, or when symptoms persist, seek medical advice.

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

First Aid, decontamination, treatment of symptoms.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

alcohol resistant foam, carbon dioxide, Powder, spray mist, (water)

#### Unsuitable extinguishing media

strong water jet

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

Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

### 5.3. Advice for firefighters

Provide a conveniently located respiratory protective device. Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways.

## SECTION 6: Accidental release measures

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

Keep away from sources of ignition. Ventilate affected area. Do not breathe vapours.

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

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

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13). Clean using cleansing agents. Do not use solvents.

### 6.4. Reference to other sections

Observe protective provisions (see section 7 and 8).

## SECTION 7: Handling and storage

Article No.: YM05000ALN10 BergerBond M1  
Print date: 24.01.2019 Revision date: 24.01.2019  
Version: 2.45 Issue date: 18.01.2019

US  
Page 3 / 8

### 7.1. Precautions for safe handling

#### Advices on safe handling

Avoid formation of flammable and explosive vapour concentrations in the air and exceeding the exposure limit values. Only use the material in places where open light, fire and other flammable sources can be kept away. Electrical equipment must be protected meeting the accepted standard. Keep away from heat sources, sparks and open flames. Use only spark proof tools. Avoid contact with skin, eyes and clothes. Do not inhale dusts, particulates and spray mist when using this preparation. Avoid respiration of swarf. When using do not eat, drink or smoke. Personal protection equipment: refer to section 8. Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

#### Further information

Vapours are heavier than air. Vapours form explosive mixtures with air.

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

#### Requirements for storage rooms and vessels

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks. Soils have to conform to the "Guidelines for avoidance of ignition hazards due to electrostatic charges (TRBS 2153)".

#### Hints on joint storage

Keep away from strongly acidic and alkaline materials as well as oxidizers.

#### Further information on storage conditions

Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 15 °C and 25 °C. Protect from heat and direct sunlight.

Due to the content of organic solvents in the preparation:

Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

### 7.3. Specific end use(s)

Observe technical data sheet. Observe instructions for use.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limit values

not applicable

#### DNEL:

ethenyl(trimethoxy)silane

EC No. 220-449-8 / CAS No. 2768-02-7

DNEL acute dermal, short-term (systemic), Workers: 0,69 mg/kg

DNEL long-term dermal (systemic), Workers: 0,69 mg/kg

DNEL acute inhalative (systemic), Workers: 4,9 mg/m<sup>3</sup>

DNEL long-term inhalative (systemic), Workers: 4,9 mg/m<sup>3</sup>

#### PNEC:

ethenyl(trimethoxy)silane

EC No. 220-449-8 / CAS No. 2768-02-7

PNEC aquatic, freshwater: 0,34 mg/l

PNEC aquatic, marine water: 0,034 mg/l

PNEC aquatic, intermittent release: 3,4 mg/l

PNEC sewage treatment plant (STP): 110 mg/l

### 8.2. Exposure controls

Provide good ventilation. This can be achieved with local or room suction. If this should not be sufficient to keep aerosol and solvent vapour concentration below the exposure limit values, a suitable respiratory protection must be used.

#### Personal protection equipment

##### Respiratory protection

If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190). Use only respiratory protection equipment with CE-symbol including four digit test number.

##### Hand protection

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 /  
Rules and Regulations



Article No.: YM05000ALN10 BergerBond M1  
Print date: 24.01.2019 Revision date: 24.01.2019  
Version: 2.45 Issue date: 18.01.2019

US  
Page 4 / 8

For prolonged or repeated handling the following glove material must be used: Butyl caoutchouc (butyl rubber)  
Thickness of the glove material > 0,4 mm ; Breakthrough time (maximum wearing time) > 480 min.  
Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin. Recommended glove articles EN ISO 374  
Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

### Eye/face protection

Wear closely fitting protective glasses in case of splashes.

### Body protection

Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.

### Protective measures

After contact clean skin thoroughly with water and soap or use appropriate cleanser.

### Environmental exposure controls

Do not allow to enter into surface water or drains. See section 7. No additional measures necessary.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

#### Appearance:

Physical state:	Liquid
Colour:	beige
Odour:	characteristic
Odour threshold:	not applicable
pH at 20 °C:	not applicable
Initial boiling point and boiling range:	not determined
Flash point:	not determined
Evaporation rate:	not applicable
flammability	
Burning time (s):	not applicable
Upper/lower flammability or explosive limits:	
Lower explosion limit:	not determined
Upper explosion limit:	not determined
Vapour pressure at 20 °C:	not determined
Vapour density:	not applicable
Relative density:	
Density at 20 °C:	1,65 g/cm <sup>3</sup>
Solubility(ies):	
Water solubility (g/L) at 20 °C:	insoluble
Partition coefficient: n-octanol/water:	see section 12
Auto-ignition temperature:	not determined
Decomposition temperature:	not applicable
Viscosity at 20 °C:	50000 mPa*s
Explosive properties:	not applicable
Oxidising properties:	not applicable

### 9.2. Other information

Solid content (%):	100,00 Wt %
solvent content:	
Organic solvents:	0 Wt %
Water:	0 Wt %
Solvent separation test (%):	< 3 Wt % (ADR/RID)

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 /  
Rules and Regulations



Article No.: YM05000ALN10 BergerBond M1  
Print date: 24.01.2019 Revision date: 24.01.2019  
Version: 2.45 Issue date: 18.01.2019

US  
Page 5 / 8

No information available.

## 10.2. Chemical stability

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

## 10.3. Possibility of hazardous reactions

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

## 10.4. Conditions to avoid

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7. Hazardous decomposition byproducts may form with exposure to high temperatures.

## 10.5. Incompatible materials

not applicable

## 10.6. Hazardous decomposition products

Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.

## SECTION 11: Toxicological information

Classification according to Regulation (EC) No 1272/2008 [CLP]

### 11.1. Information on toxicological effects

#### Acute toxicity

ethenyl(trimethoxy)silane

oral, LD50, Rat: 7120 mg/kg

Method: OECD 401

dermal, LD50, Rabbit: > 2000 mg/kg

Method: OECD 402

inhalative (vapours), LC50, Rat: 16,8 mg/l (4 h)

Method: OECD 403

inhalative (dust and mist), LC50, Rat (4 h)

#### Skin corrosion/irritation; Serious eye damage/eye irritation

Based on available data, the classification criteria are not met.

#### Respiratory or skin sensitisation

Based on available data, the classification criteria are not met.

#### CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Based on available data, the classification criteria are not met.

#### STOT-single exposure; 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.

#### Practical experience/human evidence

#### Overall Assessment on CMR properties

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

#### Remark

There is no information available on the preparation itself. The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified according to the toxicological dangers. See chapters 2 and 15 for details.

## SECTION 12: Ecological information

Classification according to Regulation (EC) No 1272/2008 [CLP]

Do not allow to enter into surface water or drains.

### 12.1. Toxicity

ethenyl(trimethoxy)silane

Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 191 mg/l (96 h)

Daphnia toxicity, EC50, Daphnia magna (Big water flea): 168,7 mg/l (48 h)

Method: 92/69/EWG, annex V, C.2

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 /  
Rules and Regulations



Article No.: YM05000ALN10 BergerBond M1  
Print date: 24.01.2019 Revision date: 24.01.2019  
Version: 2.45 Issue date: 18.01.2019

US  
Page 6 / 8

## Long-term Ecotoxicity

Toxicological data are not available.

### 12.2. Persistence and degradability

ethenyl(trimethoxy)silane

Biodegradation, OECD 301 F: 51 % (28 D); evaluation Not readily biodegradable (according to OECD criteria)

physical-chemical eliminatability, OECD 111: 2,4 h ; evaluation Hydrolysis

Method: Half-life time:

Abiotic degradation

### 12.3. Bioaccumulative potential

Toxicological data are not available.

#### Bioconcentration factor (BCF)

Toxicological data are not available.

### 12.4. Mobility in soil

Toxicological data are not available.

### 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

### 12.6. Other adverse effects

No information available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Appropriate disposal / Product Recommendation

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

#### List of proposed waste codes/waste designations in accordance with EWC

080410 waste adhesives and sealants other than those mentioned in 08 04 09

#### Appropriate disposal / Package Recommendation

#### Recommendation

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

## SECTION 14: Transport information

No dangerous good in sense of this transport regulation.

### 14.1. UN number

not applicable

### 14.2. UN proper shipping name

### 14.3. Transport hazard class(es)

not applicable

### 14.4. Packing group

not applicable

### 14.5. Environmental hazards

Land transport (ADR/RID)

not applicable

Marine pollutant

not applicable

### 14.6. Special precautions for user

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.

Advices on safe handling: see parts 6 - 8

#### Further information

#### Land transport (ADR/RID)

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 /  
Rules and Regulations



Article No.: YM05000ALN10 BergerBond M1  
Print date: 24.01.2019 Revision date: 24.01.2019  
Version: 2.45 Issue date: 18.01.2019

US  
Page 7 / 8

tunnel restriction code -

## Sea transport (IMDG)

EmS-No. not applicable

## Air transport (ICAO-TI / IATA-DGR)

### 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

#### US Federal regulations

##### Directive 2010/75/EU on industrial emissions

VOC-value (in g/L) ISO 11890-2: 0

VOC-value (in g/L) ASTM D 2369: 0

#### National regulations

##### Restrictions of occupation

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.  
Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

### 15.2. Chemical Safety Assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

EC No. CAS No.	Designation	REACH No.
220-449-8	ethenyl(trimethoxy)silane	01-2119513215-52-XXXX
2768-02-7		

## SECTION 16: Other information

### Full text of classification in section 3:

Acute Tox. 4 / H332 Acute toxicity (inhalative) Harmful if inhaled.  
Flam. Liq. 3 / H226 Flammable liquids Flammable liquid and vapour.

### Abbreviations and acronyms

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
OEL	Occupational Exposure Limit Value
BLV	Biological Limit Value
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
CMR	Carcinogenic, Mutagenic and Reprotoxic
DIN	German Institute for Standardization / German industrial standard
DNEL	Derived No-Effect Level
EAKV	European Waste Catalogue Directive
EC	Effective Concentration
EC	European Community
EN	European Standard
IATA-DGR	International Air Transport Association – Dangerous Goods Regulations
IBC Code	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ICAO-TI	International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG Code	International Maritime Code for Dangerous Goods
ISO	International Organization for Standardization
LC	Lethal Concentration
LD	Lethal Dose
MARPOL	Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
OECD	Organisation for Economic Cooperation and Development
PBT	persistent, bioaccumulative, toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
UN	United Nations
VOC	Volatile Organic Compounds

# Safety Data Sheet

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Rules and Regulations



Article No.: YM05000ALN10 BergerBond M1  
Print date: 24.01.2019 Revision date: 24.01.2019  
Version: 2.45 Issue date: 18.01.2019

US  
Page 8 / 8

---

vPvB very persistent and very bioaccumulative

## Further information

Classification according to Regulation (EC) No 1272/2008 [CLP]

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in chapter 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.

\* Data changed compared with the previous version