

EVO-STIK THE DOG'S B*LL*CKS ADHESIVE AND SEALANT BLACK
Supersedes Date: 21-Jun-2018

Revision Date 05-Sep-2018

Revision Number 1.01

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product Identifier

Product Name EVO-STIK THE DOG'S B*LL*CKS ADHESIVE AND SEALANT BLACK
Pure substance/mixture Mixture

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

Recommended use Sealant.
Uses advised against None known

1.3. Details of the supplier of the safety data sheet

Company Name

Bostik GmbH
An der Bundesstrasse 16
33829 Borgholzhausen, Germany
Tel: +49 (0) 5425 / 801 0
Fax: +49 (0) 5425 / 801 140

E-mail address SDS.box-EU@bostik.com

1.4. Emergency telephone number

Emergency Telephone

| | |
|-----------------------|---|
| United Kingdom | +44 (1785) 272650 |
| Ireland | +353 (1) 8624900 (Monday- Friday 9am-5pm) |

Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

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

Not classified

2.2. Label Elements

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

Not classified

Signal word

None

EU Specific Hazard Statements

EUH208 - Contains Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine. May produce an allergic reaction
EUH210 - Safety data sheet available on request

Precautionary statements

P101 - If medical advice is needed, have product container or label at hand
P102 - Keep out of reach of children

2.3. Other Hazards

Safety Data Sheet

EVO-STIK THE DOG'S B*LL*CKS ADHESIVE AND
SEALANT BLACK
Supersedes Date: 21-Jun-2018

Revision Date 05-Sep-2018

Revision Number 1.01

General Hazards

No information available.

PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applied

3.2 Mixtures

| Chemical Name | EC No. | CAS No. | Weight-% | Classification according to Regulation (EC) No. 1272/2008 [CLP] | Specific concentration limit (SCL) | REACH Registration Number |
|--|-----------|-------------|----------|---|------------------------------------|---------------------------|
| Silane, ethenyltrimethoxy- | 220-449-8 | 2768-02-7 | 1- <2.5 | Acute Tox. 4 (H332) Flam. Liq. 3 (H226) STOT RE 2 (H373) | | 01-2119513215-52 -XXXX |
| Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine | 309-629-8 | 100545-48-0 | 0.1 - <1 | Skin Sens. 1 (H317) Aquatic Chronic 3 (H412) | Skin Sens. 1 :: C>=25% | 01-2119979085-27 -XXXX |
| Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate | 258-207-9 | 52829-07-9 | 0.1 - <1 | Eye Dam. 1 (H318) Aquatic Acute 1 (H400) Aquatic Chronic 2 (H411) | | 01-2119537297-32 -XXXX |

Full text of H- and EUH-phrases: see section 16

Note: ^ indicates not classified, however, the substance is listed in section 3 as it has an OEL.

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59)

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

| | |
|-----------------------|---|
| General Advice | If medical advice is needed, have product container or label at hand. |
| Inhalation | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |
| Skin Contact | Wash off immediately with soap and plenty of water. In the case of skin irritation or allergic reactions see a doctor. |
| Eye contact | Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Consult an ophthalmologist. |
| Ingestion | Call a doctor or poison control centre immediately. If swallowed, rinse mouth with water (only if the person is conscious). Small amounts of toxic methanol are released by hydrolysis. |

Safety Data Sheet

EVO-STIK THE DOG'S B*LL*CKS ADHESIVE AND
SEALANT BLACK
Supercedes Date: 21-Jun-2018

Revision Date 05-Sep-2018

Revision Number 1.01

Self-Protection of the First Aider First aider: Pay attention to self-protection!.

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

Symptoms None known.

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

Note to doctors Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing. Treat symptomatically.

Section 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media

Carbon dioxide (CO₂). Extinguishing powder. Water spray or fog. Alcohol resistant foam.

Unsuitable Extinguishing Media

Strong water jet

5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of toxic/corrosive gases and vapours. Carbon monoxide. Carbon dioxide (CO₂).

5.3. Advice for firefighters

In the event of fire, wear self-contained breathing apparatus. Do not allow run-off from fire-fighting to enter drains or water courses.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal Precautions

Use personal protection equipment. Avoid contact with skin, eyes or clothing. Do not touch or walk through spilled material.

For emergency responders

Use personal protection recommended in Section 8.

6.2. Environmental precautions

Prevent product from entering drains. Do not allow to enter into soil/subsoil.

6.3. Methods and material for containment and cleaning up

Methods for Containment

Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

Methods for cleaning up

Take up mechanically, placing in appropriate containers for disposal.

6.4. Reference to other sections

Reference to other sections

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION
Section 13: DISPOSAL CONSIDERATIONS

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Safety Data Sheet

EVO-STIK THE DOG'S B*LL*CKS ADHESIVE AND
SEALANT BLACK
Supersedes Date: 21-Jun-2018

Revision Date 05-Sep-2018

Revision Number 1.01

Advice on safe handling

Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. No special fire protection measures are necessary.

General Hygiene Considerations

Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep away from food, drink and animal feedingstuffs. Recommended storage temperature. 10 - 35 °C. Keep container tightly closed and dry. Protect from moisture.

7.3. Specific end use(s)

Specific Use(s)

Sealant.

Other Information

Observe technical data sheet.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure Limits

Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing. As Carbon black (1333-86-4) is inextricably bound in the polymer matrix, it is not expected to be available as an airborne hazard (dust, mist, or spray) under normal condition of uses.

| Chemical Name | European Union | Ireland | United Kingdom |
|-------------------------------|---|---|---|
| Methyl alcohol 67-56-1 | TWA: 200 ppm TWA: 260 mg/m ³ * | TWA: 200 ppm TWA: 260 mg/m ³ STEL: 600 ppm STEL: 780 mg/m ³ Sk* | TWA: 200 ppm TWA: 266 mg/m ³ STEL: 250 ppm STEL: 333 mg/m ³ Sk* |
| Carbon black 1333-86-4 | - | TWA: 3 mg/m ³ STEL: 15 mg/m ³ | TWA: 3.5 mg/m ³ STEL: 7 mg/m ³ |
| Calcium stearate 1592-23-0 | - | TWA: 10 mg/m ³ STEL: 30 mg/m ³ | - |

Derived No Effect Level (DNEL) No information available

Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

Engineering Controls

Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/Face Protection

Wear safety glasses with side shields (or goggles). Eye protection must conform to standard EN 166

Hand Protection

Wear suitable gloves. Gloves must conform to standard EN 374. Recommended Use: Neoprene™. Nitrile rubber. Butyl rubber. Polyvinyl chloride (PVC). Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves. The breakthrough time for the mentioned glove material is in general greater than 480 min. Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Skin and Body Protection Respiratory Protection

Wear suitable protective clothing.

Ensure adequate ventilation, especially in confined areas. In case of insufficient ventilation, wear suitable respiratory equipment. Wear a respirator conforming to EN 140

Safety Data Sheet

EVO-STIK THE DOG'S B*LL*CKS ADHESIVE AND
SEALANT BLACK
Supersedes Date: 21-Jun-2018

Revision Date 05-Sep-2018

Revision Number 1.01

Recommended filter type: with Type A/P2 filter or better.
Brown. White.

Environmental Exposure Controls Do not allow uncontrolled discharge of product into the environment.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

| | |
|-----------------|--------------------------|
| Physical State | Liquid |
| Appearance | Paste |
| Colour | Black |
| Odour | Characteristic |
| Odour Threshold | No information available |

| <u>Property</u> | <u>Values</u> | <u>Remarks • Method</u> |
|--|--------------------------|-------------------------|
| pH | No information available | Not applied |
| Melting point / freezing point | No information available | |
| Boiling point / boiling range | No information available | |
| Flash Point | > 61 °C / > 141.8 °F | CC (closed cup) |
| Evaporation Rate | No information available | |
| Flammability (solid, gas) | No information available | |
| Flammability Limit in Air | | |
| Upper flammability or explosive limits | No information available | |
| Lower flammability or explosive limits | No information available | |
| Vapour Pressure | No information available | |
| Vapour Density | No information available | |
| Relative Density | 1.4 - 1.6 | |
| Water Solubility | Reacts with water | |
| Solubility in Other Solvents | No information available | |
| Partition coefficient | No information available | |
| Autoignition Temperature | No information available | |
| Decomposition Temperature | No information available | |
| Explosive Properties | No information available | |
| Oxidising Properties | No information available | |
| Kinematic Viscosity | No information available | |

| | | |
|-------------------|---------------------------|---------------------------|
| Dynamic Viscosity | approx. 9000 - 15000 Pa.s | Spindle 4 @ 1 rpm @ 23 °C |
|-------------------|---------------------------|---------------------------|

9.2. Other information

| | | |
|---------------------------------|----------------------------------|---|
| Softening Point | No information available | |
| Molecular Weight | No information available | |
| Solvent content (%) | No information available | |
| Solid content (%) | No information available | |
| Density | ca. 1.5 g/cm ³ @ 20°C | |
| Bulk Density | No data available | |
| VOC (volatile organic compound) | < 3 % | Swiss ordinance on the Incentive Tax on Volatile Organic Compounds of 12 Nov 1997 |

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

Product cures with moisture.

10.2. Chemical stability

Stable under normal conditions.

Explosion Data

Safety Data Sheet

EVO-STIK THE DOG'S B*LL*CKS ADHESIVE AND
SEALANT BLACK

Supercedes Date: 21-Jun-2018

Revision Date 05-Sep-2018

Revision Number 1.01

Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge None.

10.3. Possibility of hazardous reactions

Possibility of Hazardous Reactions

None known.

10.4. Conditions to avoid

Protect from moisture.

10.5. Incompatible materials

Water.

10.6. Hazardous decomposition products

None under normal use conditions.

Section 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Information on likely routes of exposure

Product Information

| | |
|----------------------|---|
| Inhalation | Based on available data, the classification criteria are not met. |
| Eye contact | Based on available data, the classification criteria are not met. |
| Skin Contact | Based on available data, the classification criteria are not met. |
| Ingestion | Based on available data, the classification criteria are not met. |
| Sensitisation | May produce an allergic reaction. |

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin Corrosion/Irritation Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation Based on available data, the classification criteria are not met.

Sensitisation May produce an allergic reaction.

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.

Target Organ Effects Eyes, Respiratory system, Skin.

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

Numerical measures of toxicity

Acute Toxicity

Safety Data Sheet

EVO-STIK THE DOG'S B*LL*CKS ADHESIVE AND
SEALANT BLACK
Supersedes Date: 21-Jun-2018

Revision Date 05-Sep-2018

Revision Number 1.01

The following values are calculated based on chapter 3.1 of the GHS document mg/kg
ATEmix (inhalation-vapour) 566.00 mg/l

Component Information

Toxicity Data Data obtained on the component(s) include

| Chemical Name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---|--|--------------------------------------|-------------------------------------|
| Silane, ethenyltrimethoxy- 2768-02-7 | LD 50 = 7120 -7236 mg/kg (Rat) OECD 401 | = 3360 µL/kg (Rabbit) | - |
| Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine 100545-48-0 | LD50 >2000 mg/kg (Rat) | - | LC50 =5.05 mg/kg (Rat) |
| Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate 52829-07-9 | LD50 (rat)> 2000 mg/kg OECD 423 | LD50 (rat) > 3 170 mg/kg OECD 402 | = 500 mg/m ³ (Rat) 4 h |

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity Classification is shown in section 2 of this SDS

Component Information

Data obtained on the component(s) include

| Chemical Name | Algae/aquatic plants | Fish | Crustacea | M-Factor |
|--|--|--|---|----------|
| Silane, ethenyltrimethoxy- 2768-02-7 | EC 50 (72h) > 957 mg/l (Desmodesmus subspicatus) EU Method C.3 | L50 (96h) = 191 mg/l (Oncorhynchus mykiss) | EC50(48hr) 168.7mg/l (Daphnia magna) | |
| Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine 100545-48-0 | EL50 (72h) >100 mg/L Algae (Pseudokirchneriella subcapitata) | LL50 (96h) >10mg/L Fish (Onchohynchus mykiss) | EL50 (48h) >10mg/L Daphnia (Daphnia magna) | |
| Bis(2,2,6,6-tetramethyl-4-pi peridyl) sebacate 52829-07-9 | EC50 72Hr 0.705 mg/l (Pseudokirchnerella subcapitata) | LC50 (96h) = 5.29 mg/l (Oryzias latipes) | LC50 48Hr 8.58 mg/l (Daphnia magna) | |

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

Partition coefficient No information available

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

. The components in this formulation do not meet the criteria for classification as PBT or vPvB.

12.6. Other adverse effects

Safety Data Sheet

EVO-STIK THE DOG'S B*LL*CKS ADHESIVE AND
SEALANT BLACK
Supersedes Date: 21-Jun-2018

Revision Date 05-Sep-2018

Revision Number 1.01

No information available

Endocrine Disruptor Information

This product does not contain any known or suspected endocrine disruptors.

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

| | |
|--|---|
| Waste from Residues/Unused Products | Dispose of in accordance with federal, state and local regulations. Uncured product should be disposed of as hazardous waste. |
| Contaminated Packaging | Handle contaminated packages in the same way as the product itself. |
| European Waste Catalogue | 08 04 10 waste adhesives and sealants other than those mentioned in 08 04 09 |
| Other Information | Waste codes should be assigned by the user based on the application for which the product was used. |

Section 14: TRANSPORT INFORMATION

Land transport (ADR/RID)

| | |
|---------------------------------|---------------|
| 14.1 UN Number | Not regulated |
| 14.2 Proper Shipping Name | Not regulated |
| 14.3 Transport hazard class(es) | Not regulated |
| 14.4 Packing Group | Not regulated |
| 14.5 Environmental hazards | Not applied |
| 14.6 Special Provisions | None |

IMDG

| | |
|---|--------------------------|
| 14.1 UN Number | Not regulated |
| 14.2 Proper Shipping Name | Not regulated |
| 14.3 Transport hazard class(es) | Not regulated |
| 14.4 Packing Group | Not regulated |
| 14.5 Marine Pollutant | Np |
| 14.6 Special Provisions | None |
| 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code | No information available |

Air transport (ICAO-TI / IATA-DGR)

| | |
|---------------------------------|---------------|
| 14.1 UN Number | Not regulated |
| 14.2 Proper Shipping Name | Not regulated |
| 14.3 Transport hazard class(es) | Not regulated |
| 14.4 Packing Group | Not regulated |
| 14.5 Environmental hazards | Not applied |
| 14.6 Special Provisions | None |

Section 15: REGULATORY INFORMATION

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

European Union

Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH) Regulation (EC 1907/2006)

EU-REACH (1907/2006) - Candidate List of Substances of Very High Concern (SVHC) for Authorization in accordance with Article 59

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No.

Safety Data Sheet

EVO-STIK THE DOG'S B*LL*CKS ADHESIVE AND SEALANT BLACK
Supercedes Date: 21-Jun-2018

Revision Date 05-Sep-2018

Revision Number 1.01

1907/2006 (REACH), Article 59)

EU-REACH (1907/2006) - Annex XVII - Substances subject to Restriction

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

| Chemical Name | CAS No. | Restricted substance per REACH Annex XVII |
|------------------|----------|---|
| Dioctyltin oxide | 870-08-6 | |

EU-REACH (1907/2006) - Annex XIV - List of substances subject to Authorization

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applied

Persistent Organic Pollutants

Not applied

15.2. Chemical safety assessment

No information available

Section 16: OTHER INFORMATION

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3

H317 - May cause an allergic skin reaction

H412 - Harmful to aquatic life with long lasting effects

H332 - Harmful if inhaled

H226 - Flammable liquid and vapour

H373 - May cause damage to organs through prolonged or repeated exposure

H318 - Causes serious eye damage

H400 - Very toxic to aquatic life

H411 - Toxic to aquatic life with long lasting effects

Legend

SVHC: Substances of Very High Concern for Authorisation:

Legend SECTION 8: Exposure controls/personal protection

TWA TWA (time-weighted average)

Ceiling Maximum limit value

PBT Persistent, Bioaccumulative, and Toxic (PBT) Chemicals

STOT (RE): Specific target organ toxicity - Repeated exposure

STOT (SE): Specific target organ toxicity - Single exposure

EWC: European Waste Catalogue

STEL

*

STEL (Short Term Exposure Limit)

Skin designation

Key literature references and sources for data

Classification and labeling data calculated from data received from raw material suppliers

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Safety Data Sheet

EVO-STIK THE DOG'S B*LL*CKS ADHESIVE AND SEALANT BLACK

Supersedes Date: 21-Jun-2018

Revision Date 05-Sep-2018

Revision Number 1.01

Indication of changes

| | |
|----------------------------|---|
| Revision Note | Not applied. |
| Training Advice | When working with hazardous materials, regular training of operators is required by law |
| Further information | No information available |

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet