

**EVO-STIK MIRROR ADHESIVE**  
Supersedes Date: 18-Mar-2016

Revision Date 01-May-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 MIRROR ADHESIVE  
**Pure substance/mixture** Mixture

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

**Recommended use** Adhesives and/or sealants.  
**Uses advised against** None known

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

#### Company Name

Bostik SA  
Immeuble "Le Jade"  
253 Avenue du President Wilson  
93211 La Plaine Saint Denis  
France  
Tel: +33 (0)1 55 99 90 00  
Fax: +33 (0)1 55 99 90 01

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

### 1.4. Emergency telephone number

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

## Section 2: HAZARD 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**

No signal word

#### **Special provisions concerning the labelling of certain mixtures**

EUH210 - Safety data sheet available on request

### 2.3. Other Hazards

#### **General Hazards**

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

# Safety Data Sheet

EVO-STIK MIRROR ADHESIVE  
Supersedes Date: 18-Mar-2016

Revision Date 01-May-2018  
Revision Number 1.01

## 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 applicable

### 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 - <3	Acute Tox. 4 (H332) Flam. Liq. 3 (H226) STOT RE 2 (H373)		01-2119513215-52 -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

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	Remove contaminated clothing and shoes. 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. Hold eyelids apart and consult an physician.
Ingestion	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. If swallowed, rinse mouth with water (only if the person is conscious).
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.
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### 4.3. Indication of any immediate medical attention and special treatment needed

# Safety Data Sheet

EVO-STIK MIRROR ADHESIVE  
Supersedes Date: 18-Mar-2016

Revision Date 01-May-2018  
Revision Number 1.01

<b>Note to doctors</b>	Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing.
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## Section 5: FIREFIGHTING MEASURES

### 5.1. Extinguishing media

#### Suitable Extinguishing Media

Carbon dioxide (CO<sub>2</sub>). Extinguishing powder. Water spray or fog. Alcohol resistant foam.

#### Large Fire

When a large quantity of this material is involved in a major fire, consider an initial evacuation distance of 300 metres (1000 feet) in all directions.

#### 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 (CO<sub>2</sub>). Halogenated hydrocarbons. Nitrogen oxides (NO<sub>x</sub>).

### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit. Use personal protective equipment as required.

## 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 entry into waterways, sewers, basements or confined areas. 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

#### Advice on safe handling

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

#### General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Avoid contact with skin, eyes or clothing. Take off contaminated clothing and wash it

# Safety Data Sheet

EVO-STIK MIRROR ADHESIVE  
Supersedes Date: 18-Mar-2016

Revision Date 01-May-2018  
Revision Number 1.01

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 from freezing.

## 7.3. Specific end use(s)

### Other Information

Recommendation(s). 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.

Chemical Name	European Union	Ireland	United Kingdom
Calcium stearate 1592-23-0	-	TWA: 10 mg/m <sup>3</sup> STEL: 30 mg/m <sup>3</sup>	-
Methyl alcohol 67-56-1	TWA: 200 ppm TWA: 260 mg/m <sup>3</sup> S*	TWA: 200 ppm TWA: 260 mg/m <sup>3</sup> STEL: 600 ppm STEL: 780 mg/m <sup>3</sup> Skin	STEL: 250 ppm STEL: 333 mg/m <sup>3</sup> TWA: 200 ppm TWA: 266 mg/m <sup>3</sup> Skin

**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). Wear chemical splash goggles and face shield when eye and face contact is possible due to splashing or spraying of material.

#### Hand Protection

Wear suitable gloves. Gloves must conform to standard EN 374. The breakthrough time of the gloves depends on the material and the thickness as well as the temperature. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves. Wear protective butyl rubber gloves. The breakthrough time for the mentioned glove material is in general greater than 480 min. Wear protective nitrile rubber gloves. Glove thickness > 0.7mm. The breakthrough time for the mentioned glove material is in general greater than 180 min.

#### Skin and Body Protection

None under normal use conditions.

#### Respiratory Protection

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. Wear a respirator conforming to EN 140 with Type A/P2 filter or better. Organic gases and vapours filter conforming to EN 14387.

#### Recommended filter type:

Brown.

**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

# Safety Data Sheet

**EVO-STIK MIRROR ADHESIVE**  
**Supersedes Date:** 18-Mar-2016

**Revision Date** 01-May-2018  
**Revision Number** 1.01

<b>Appearance</b>	Paste	
<b>Colour</b>	Grey	
<b>Odour</b>	No information available	
<b>Odour Threshold</b>	No information available	
<b>Property</b>	<b>Values</b>	<b>Remarks • Method</b>
<b>pH</b>	No information available	
<b>Melting point / freezing point</b>	No information available	
<b>Boiling point / boiling range</b>	No information available	
<b>Flash Point</b>	No information available	
<b>Evaporation Rate</b>	No information available	
<b>Flammability (solid, gas)</b>	No information available	Not applicable for liquids
<b>Flammability Limit in Air</b>		
Upper flammability limit:	No information available	
Lower flammability limit	No information available	
<b>Vapour Pressure</b>	No information available	
<b>Vapour Density</b>	No information available	
<b>Relative Density</b>	1.49 - 1.55	
<b>Water Solubility</b>	Insoluble in water	
<b>Solubility in Other Solvents</b>	No information available	
<b>Partition Coefficient</b>	No information available	
<b>Autoignition Temperature</b>	No information available	
<b>Decomposition Temperature</b>	No information available	
<b>Explosive Properties</b>	No information available	
<b>Explosive Limits</b>	No information available	
Upper	No information available	
Lower	No information available	
<b>Oxidising Properties</b>	No information available	
<b>Kinematic Viscosity</b>	No information available	
<b>Dynamic Viscosity</b>	7000 - 15000 Pa.s	@ 20 °C
<b>9.2. Other information</b>		
<b>Softening Point</b>	No information available	
<b>Molecular Weight</b>	No information available	
<b>Solvent content (%)</b>	No information available	
<b>Solid content (%)</b>	No information available	
<b>Density</b>	1.50	
<b>Bulk Density</b>	No data available	
<b>VOC content (%)</b>		

## Section 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

Product cures with moisture.

### 10.2. Chemical stability

Stable under normal conditions.

#### Explosion Data

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

Extremes of temperature and direct sunlight. Keep from freezing. Protect from moisture. Product cures with moisture.

# Safety Data Sheet

EVO-STIK MIRROR ADHESIVE  
Supersedes Date: 18-Mar-2016

Revision Date 01-May-2018  
Revision Number 1.01

## 10.5. Incompatible materials

Water.

## 10.6. Hazardous decomposition products

None under normal use and recommended storage conditions.

## **Section 11: TOXICOLOGY INFORMATION**

### 11.1. Information on toxicological effects

#### Information on likely routes of exposure

##### **Product Information**

No information or data specific to the product on this toxicological (health) effect is available.

<b>Inhalation</b>	Based on available data, the classification criteria are not met.
<b>Eye contact</b>	Based on available data, the classification criteria are not met.
<b>Skin Contact</b>	Based on available data, the classification criteria are not met.
<b>Ingestion</b>	Based on available data, the classification criteria are not met.
<b>Sensitisation</b>	No data available.

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

<b>Skin Corrosion/Irritation</b>	Not applicable.
<b>Serious eye damage/eye irritation</b>	Not applicable.
<b>Sensitisation</b>	Not applicable.
<b>Germ Cell Mutagenicity</b>	Not applicable.
<b>Carcinogenicity</b>	Not applicable.
<b>Reproductive Toxicity</b>	No information available.
<b>STOT - Single Exposure</b>	No information available.
<b>STOT - Repeated Exposure</b>	No information available.
<b>Target Organ Effects</b>	Eyes, Respiratory system, Skin.
<b>Aspiration hazard</b>	Not applicable.

#### Numerical measures of toxicity

##### **Acute Toxicity**

The following values are calculated based on chapter 3.1 of the GHS document mg/kg

ATEmix (inhalation-vapour) 408.00 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 )	-
Bis(2,2,6,6-tetramethyl-4-piperidyl)	LD50 (rat)> 2000 mg/kg	LD50 (rat) > 3 170 mg/kg	= 500 mg/m <sup>3</sup> ( Rat ) 4 h

# Safety Data Sheet

EVO-STIK MIRROR ADHESIVE  
Supersedes Date: 18-Mar-2016

Revision Date 01-May-2018  
Revision Number 1.01

sebacate 52829-07-9	OECD 423	OECD 402	
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## 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)	
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

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

Disposal should be in accordance with applicable regional, national and local laws and regulations.

#### 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

## Section 14: TRANSPORT INFORMATION

# Safety Data Sheet

EVO-STIK MIRROR ADHESIVE  
Supersedes Date: 18-Mar-2016

Revision Date 01-May-2018  
Revision Number 1.01

## ADR

14.1 UN/ID no	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 Hazard	Not applicable
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

## 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 Hazard	Not applicable
14.6 Special Provisions	None

## ICAO (air)

14.1 UN/ID no	Not regulated
14.2 Proper Shipping Name	Not regulated
14.3 Hazard Class	Not regulated
14.4 Packing Group	Not regulated
14.5 Environmental Hazard	Not applicable
14.6 Special Provisions	None

## IATA

14.1 UN/ID no	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 Hazard	Not applicable
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

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Check whether measures in accordance with Directive 94/33/EC for the protection of young people at work must be taken.

Take note of Directive 92/85/EC on the protection of pregnant and breastfeeding women at work

#### 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. 1907/2006 (REACH), Article 59)



# Safety Data Sheet

**EVO-STIK MIRROR ADHESIVE**  
**Supersedes Date:** 18-Mar-2016

**Revision Date** 01-May-2018  
**Revision Number** 1.01

## **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	Restrictions on use
Silicic acid (H <sub>4</sub> SiO <sub>4</sub> ), tetraethyl ester, reaction products with bis(acetyloxy)dioctylstannane	93925-43-0	3 20 40

## **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 applicable

## **Persistent Organic Pollutants**

Not applicable

## **15.2. Chemical safety assessment**

None

## **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**

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 and personal protection

TWA TWA (time-weighted average)

STEL

STEL (Short Term Exposure Limit)

Ceiling Maximum limit value

\*

Skin designation

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

### **Key literature references and sources for data**

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

**Prepared By** Product Safety & Regulatory Affairs

**Revision Date** 01-May-2018

### **Indication of changes**

**Revision Note** SDS sections updated: 3, 11.

# Safety Data Sheet

**EVO-STIK MIRROR ADHESIVE**  
**Supersedes Date:** 18-Mar-2016

**Revision Date** 01-May-2018  
**Revision Number** 1.01

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<b>Training Advice</b>	When working with hazardous materials, regular training of operators is required by law
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<b>Further information</b>	No information available
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**This 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**