

# Safety Data Sheet

Material: 60003095

**SILICONE HEAT SINK  
PASTE P 12**

Version: 3.6 (REG\_EUROPE)

Date of print: 18.02.2013

Date of last alteration: 10.12.2012

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

### 1.1 Product identifier

Commercial product name: **SILICONE HEAT SINK  
PASTE P 12**

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

Industrial.

Use of substance / preparation:  
Auxiliary agent for: electronic

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

Manufacturer/distributor: BEDEK GmbH & Co. KG  
Street/POB-No.: Mönchsrother Str. 54  
State/postal code/city: D 91550 Dinkelsbühl  
Telephone: +49 9581 57 35-0  
Telefax: +49 9851 57 35-57

Information about the Safety Data Sheet: Telephone +49 9851 57 35-0  
Telefax +49 9851 57 35-57  
eMail info@bedek.de

### 1.4 Emergency telephone number

Emergency Information: **Plant fire brigade +49 9851 57 35-0**  
Emergency Information (internat.): **National Response Center +49 621 60-43333**

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Classification (67/548/EEC, 1999/45/EC):

R-Phrase	Description
R-	-

This product is not a dangerous preparation within the meaning of Directive 1999/45/EC.

### 2.2 Label elements

Labelling (67/548/EEC, 1999/45/EC):

R-Phrase	Description
R-	-

S-Phrase	Description
S-	-

Special identification instructions:  
Safety data sheet available for professional users on request.

### 2.3 Other hazards

No data are available.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

not applicable

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## 3.2 Mixtures

### 3.2.1 Chemical characterization (preparation)

Polydimethylsiloxane and auxiliary

### 3.2.2 Hazardous ingredients

EC-No.	CAS No.	Material	Content %	Warning Label (EC)	
				Symbol	R-Phrases*
215-222-5	1314-13-2	zinc oxide	<70	N	R50/53

\*Classification codes are explained in section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

**General information:**

In case of accident or if you feel unwell seek medical advice (show label or SDS where possible).

**After inhalation:**

Material cannot be inhaled under normal conditions.

**After contact with the skin:**

Wipe off excess material with cloth or paper. Wash with plenty of water or water and soap. In the event of a visible skin change or other complaints, seek medical advice (show label or SDS where possible).

**After contact with the eyes:**

Rinse immediately with plenty of water. Seek medical advice in case of continuous irritation.

**After swallowing:**

Give several small portions of water to drink. Do not induce vomiting.

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

Any relevant information can be found in other parts of this section.

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

No data are available.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media:**

water spray , extinguishing powder , alcohol-resistant foam , carbon dioxide , sand .

**Extinguishing media which must not be used for safety reasons:**

water jet .

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

-

### 5.3 Advice for firefighters

**Special protective equipment for fire fighting:**

Use respiratory protection independent of recirculated air.

## SECTION 6: Accidental release measures

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

No special measures required.

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### 6.2 Environmental precautions

Prevent material from entering sewers or surface waters.

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

Scoop up large quantities after dusting surfaces with sand or Fuller's earth to prevent sticking. Sweep or scrape up the spilled material and place in an appropriate chemical waste container. Clean any slippery coating that remains using a detergent / soap solution or another biodegradable cleaner. Apply sand or other inert granular material to improve traction.

### 6.4 Reference to other sections

Relevant information in other sections have to be considered. This applies in particular for information given on personal protective equipment (section 8) and on disposal (section 13).

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

**Precautions for safe handling:**

No special protective measures required.

**Precautions against fire and explosion:**

No special precautions against fire and explosion required.

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

**Conditions for storage rooms and vessels:**

none known

**Advice for storage of incompatible materials:**

not applicable

**Further information for storage:**

Keep container tightly closed. Store in a dry and cool place.

### 7.3 Specific end use(s)

No data are available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

**Maximum airborne concentrations at the workplace:**

not applicable

### 8.2 Exposure controls

#### 8.2.1 Exposure in the work place limited and controlled

**General protection and hygiene measures:**

Observe standard industrial hygiene practices for the handling of chemical substances. Do not eat or drink when handling.

**Personal protection equipment:**

**Respiratory protection**

not required .

**Hand protection**

Recommendation: Protective gloves made of butyl rubber . Gloves suitable for up to 60 minutes' use. The selection of appropriate gloves not only depends on the material, but also on other quality characteristics, and may vary depending on the manufacturer. Please observe information from your glove supplier in terms of permeability and breakthrough time.

**Eye protection**

Recommendation: protective goggles .

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## 8.2.2 Exposure to the environment limited and controlled

Prevent material from entering surface waters and soil.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

**General information:**

Physical state / form.....: paste  
 Colour .....: white  
 Odour .....: odourless

**Important information about the protection of health, safety and the environment:**

Property:	Value:	Method:
Melting point / melting range .....	not applicable	
Boiling point / boiling range .....	not applicable	
Flash point.....	not applicable	
Ignition temperature .....	> 400 °C	(DIN 51794)
Lower explosion limit (LEL) .....	not applicable	
Upper explosion limit (UEL).....	not applicable	
Vapour pressure.....	not applicable	
Density .....	2,1 g/cm <sup>3</sup> at 25 °C, at 1013 hPa	(DIN 51757)
Water solubility / miscibility.....	virtually insoluble at 20 °C	
pH-Value .....	not applicable	
Viscosity (dynamic):.....	not applicable	

### 9.2 Other information

Thermal decomposition.....: > 250 °C

## SECTION 10: Stability and reactivity

### 10.1 – 10.3 Reactivity ;Chemical stability ;Possibility of hazardous reactions

**10.3** If stored and handled in accordance with standard industrial practices no hazardous reactions are known.  
 Relevant information can possibly be found in other parts of this section.

### 10.4 Conditions to avoid

none known

### 10.5 Incompatible materials

none known

### 10.6 Hazardous decomposition products

If stored and handled properly: none known . Measurements have shown the formation of small amounts of formaldehyde at temperatures above about 150 °C (302 °F) through oxidation.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### 11.1.1 Acute toxicity

**Assessment:**

Based on the available data acute toxic effects are not expected after single oral exposure.

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**Product details:**

Route of exposure	Result/Effect	Species/Test system	Source
oral	LD <sub>50</sub> : > 2000 mg/kg	rat	Conclusion by analogy

**Acute toxicity estimate (ATE):**

ATE<sub>mix</sub> (oral): > 2000 mg/kg

**11.1.2 Skin corrosion/irritation**

**Assessment:**

For this endpoint no toxicological test data is available for the whole product.

**11.1.3 Serious eye damage / eye irritation**

**Assessment:**

For this endpoint no toxicological test data is available for the whole product.

**11.1.4 Respiratory or skin sensitization**

**Assessment:**

For this endpoint no toxicological test data is available for the whole product.

**11.1.5 Germ cell mutagenicity**

**Assessment:**

For this endpoint no toxicological test data is available for the whole product.

**11.1.6 Carcinogenicity**

**Assessment:**

For this endpoint no toxicological test data is available for the whole product.

**11.1.7 Reproductive toxicity**

**Assessment:**

For this endpoint no toxicological test data is available for the whole product.

**11.1.8 Specific target organ toxicity (single exposure)**

**Assessment:**

For this endpoint no toxicological test data is available for the whole product.

**11.1.9 Specific target organ toxicity (repeated exposure)**

**Assessment:**

For this endpoint no toxicological test data is available for the whole product.

**11.1.10 Aspiration hazard**

**Assessment:**

Based on the physical-chemical properties of the product no aspiration hazard must be expected.

**SECTION 12: Ecological information**

**12.1 Toxicity**

**Assessment:**

No expected damaging effects to aquatic organisms.

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**Product details:**

Result/Effect	Species/Test system	Source
ErC50: > 100 mg/l	static Desmodesmus subspicatus (72 h)	Conclusion by analogy OECD 201

**12.2 Persistence and degradability**

**Assessment:**

Biologically not degradable. Insoluble in water. Separation by sedimentation.

**12.3 Bioaccumulative potential**

**Assessment:**

No adverse effects expected.

**12.4 Mobility in soil**

**Assessment:**

Insoluble in water. No adverse effects expected.

**12.5 Other adverse effects**

none known

## SECTION 13: Disposal considerations

**13.1 Waste treatment methods**

**13.1.1 Material**

**Recommendation:**

Material that cannot be used or chemically reprocessed should be disposed of at an approved facility in accordance with any applicable governmental regulations.

**13.1.2 Uncleaned packaging**

**Recommendation:**

Containers should be completely emptied before recycling as specified in government regulations. Empty containers should be sent to an approved recycling facility.

## SECTION 14: Transport information

**14.1 – 14.4 UN number ;UN proper shipping name ;Transport hazard class(es) ;Packing group**

**14.1**

**Road ADR:**

Valuation .....: Not regulated for transport

**Railway RID:**

Valuation .....: Not regulated for transport

**Transport by sea IMDG-Code:**

Valuation .....: Not regulated for transport

**Air transport ICAO-TI/IATA-DGR:**

Valuation .....: Not regulated for transport

**14.5 Environmental hazards**

Hazardous to the environment: no

**14.6 Special precautions for user**

Relevant information in other sections have to be considered.

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## 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Bulk transport in tankers is not intended.

## SECTION 15: Regulatory information

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

National and local regulations must be observed.

For information on labelling please refer to section 2 of this document.

### 15.2 Other international regulations

#### Details of international registration status:

Listed on or in accordance with the following inventories:

EINECS - Europe

ECL - Korea

ENCS - Japan

AICS - Australia

IECSC - China

DSL - Canada

PICCS - Philippines

TSCA - USA

## SECTION 16: Other information

### 16.1 Material

The details in this document are based on the state of our knowledge at the time of revision. They do not constitute an assurance of the described product properties in terms of statutory warranty requirements.

The providing of this document to a recipient does not relieve the recipient of his or her responsibility toward compliance with all laws and stipulations applicable to the product. This applies in particular to the further sale or distribution of the product or substances or items containing the product, in other jurisdictions and with regard to the protection of third-party intellectual property rights. If the described product is processed or mixed with other substances or materials, the details stated in this document cannot be conferred to the resultant new product unless this has been expressly mentioned. If the product is repackaged, the recipient is obligated to additionally provide the required safety-related information.

All deliveries are subject to the SILICONES Health Care Policy, which is available at [www.bedek.de](http://www.bedek.de)

### 16.2 Further information:

Commas appearing in numerical data denote a decimal point. Vertical lines in the left-hand margin indicate changes compared with the previous version. This version supersedes all previous versions.

R-Phrase	Description
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- End of Safety Data Sheet -