

**BOSTIK ARDATEC 1K FLEX**  
Supersedes Date: 20-Jul-2017

Revision Date 11-Feb-2019  
Revision Number 1.01

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

### 1.1. Product Identifier

**Product Name** BOSTIK ARDATEC 1K FLEX  
**Pure substance/mixture** Mixture

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

**Recommended use** Building and construction work. Fillers, putties, plasters, modelling clay.  
**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** No information available

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

<b>Skin corrosion/irritation</b>	Category 2 - (H315)
<b>Serious eye damage/eye irritation</b>	Category 1 - (H318)

### 2.2. Label Elements

Contains: Cement, portland, chemicals (Chromium VI reduced)



**Signal word**  
DANGER

#### Hazard statements

H315 - Causes skin irritation  
H318 - Causes serious eye damage

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## Precautionary statements

P102 - Keep out of reach of children  
P280 - Wear protective gloves/protective clothing/eye protection/face protection  
P302 + P352 - IF ON SKIN: Wash with plenty of water and soap  
P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P310 - Immediately call a POISON CENTER or doctor  
P501 - Dispose of contents/ container to an approved waste disposal plant

## Additional information

Cement product for which the amount of chromium VI was decreased to < 0,0002 % by a reduction agent (related to the total dry weight).

## 2.3. Other Hazards

Product dust may be irritating to eyes, skin and respiratory system  
When cement reacts with water a strong alkaline solution is produced. Prolonged contact with wet cement or wet concrete may cause serious burns because they develop without pain being felt e.g. when kneeling in wet cement even when wearing trousers  
Frequent inhalation of large quantities of cement dust over a long period of time increases the risk of developing lung disease

## 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
Quartz	238-878-4	14808-60-7	40 - <80	^		Exempt
Cement, portland, chemicals (Chromium VI reduced)	266-043-4	65997-15-1	10 - <20	STOT SE 3 (H335) Skin Irrit. 2 (H315) Eye Dam. 1 (H318)		No data available
Quartz (fine fraction)	238-878-4	14808-60-7	0.1- <1	STOT RE 1 (H372)		Exempt
Silica, amorphous	231-545-4	7631-86-9	0.1- <1	No data available		01-2119379499-16-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

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## 4.1. Description of first aid measures

<b>General advice</b>	If medical advice is needed, have product container or label at hand.
<b>Inhalation</b>	Remove to fresh air. Get medical attention immediately if symptoms occur.
<b>Eye contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Consult an ophthalmologist.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Do NOT induce vomiting. Rinse mouth thoroughly with water. Drink 1 or 2 glasses of water. Call a doctor.
<b>Self-protection of the first aider</b>	Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

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

<b>Symptoms</b>	Causes serious eye damage. Inhalation of dust in high concentration may cause irritation of respiratory system. Irritating to skin.
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## 4.3. Indication of any immediate medical attention and special treatment needed

<b>Note to doctors</b>	Treat symptomatically.
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## **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>Unsuitable extinguishing media</b>	Full water jet. Do not scatter spilled material with high pressure water streams.

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

<b>Specific hazards arising from the chemical</b>	Non-combustible.
<b>Hazardous Combustion Products</b>	None.

### 5.3. Advice for firefighters

<b>Special protective equipment for fire-fighters</b>	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.
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## **SECTION 6: Accidental release measures**

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

<b>Personal precautions</b>	Avoid generation of dust. Avoid breathing dust/fume/gas/mist/vapours/spray. Use personal protective equipment as required. Do not get in eyes, on skin, or on clothing.
<b>Other information</b>	Refer to protective measures listed in Sections 7 and 8.
<b>For emergency responders</b>	Use personal protection recommended in Section 8.

### 6.2. Environmental precautions

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**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** Cover powder spill with plastic sheet or tarp to minimise spreading and keep powder dry. Prevent dust cloud.

**Methods for cleaning up** Take up mechanically, placing in appropriate containers for disposal.

## 6.4. Reference to other sections

**Reference to other sections** See section 8 for more information. See section 13 for more information.

## **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

**Advice on safe handling** Ensure adequate ventilation. Avoid generation of dust. Avoid breathing dust/fume/gas/mist/vapours/spray. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

**General hygiene considerations** Keep away from food, drink and animal feedingstuffs. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Take off all contaminated clothing and wash it before reuse.

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

**Storage Conditions** Keep the packing dry and well sealed to prevent contamination and absorption of humidity. After absorption of moisture or exceeding the shelf life the reducing agent for chromate will lose its efficiency and sensitisation by skin contact may occur.

### 7.3. Specific end use(s)

**Specific Use(s)**  
Building and construction work. Fillers, putties, plasters, modelling clay.

**Risk Management Methods (RMM)** The information required is contained in this Safety Data Sheet.

**Other information** Observe technical data sheet.

## **SECTION 8: Exposure controls/Personal protection**

### 8.1. Control parameters

#### Exposure Limits

**Only European Community Occupational Exposure Limits will be shown in this document. Please refer to regional SDS for further information.**

Chemical Name	European Union
Quartz 14808-60-7	TWA: 0.1 mg/m <sup>3</sup>
Quartz (fine fraction) 14808-60-7	TWA: 0.1 mg/m <sup>3</sup>
Silica, amorphous 7631-86-9	TWA: 0.1 mg/m <sup>3</sup>

**Derived No Effect Level (DNEL)** No information available

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**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** Tight sealing safety goggles, Face protection shield. Eye protection must conform to standard EN 166.

**Hand protection** Wear suitable gloves. Gloves must conform to standard EN 374. Recommended Use: Nitrile rubber. 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 240 min. Unsuitable gloves materials: Leather.

**Skin and body protection** Wear suitable protective clothing.

**Respiratory protection** Avoid generation of dust. In case of inadequate ventilation wear respiratory protection. Particle filter device (DIN EN 143).

**Recommended filter type:** High efficiency particulate air filter.

**Environmental exposure controls** Do not allow into any sewer, on the ground or into any body of water.

## SECTION 9: Physical and chemical properties

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

**Physical State** Solid  
**Appearance** Powder  
**Colour** Grey  
**Odour** Characteristic  
**Odour Threshold** No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	No data available	
pH (as aqueous solution)	> 11	
Melting point / freezing point	No data available	
Boiling point / boiling range	No data available	
Flash Point	Not applicable	No data available
Evaporation Rate	No data available	Not applicable
Flammability (solid, gas)	No data available	
Flammability Limit in Air		
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Vapour Pressure	No data available	
Vapour Density	No data available	
Relative Density	No data available	
Water Solubility	Product cures with moisture	
Solubility(ies)	No data available	
Partition coefficient	No data available	
Autoignition Temperature	No data available	
Decomposition Temperature	No data available	
Kinematic Viscosity	No data available	
Dynamic Viscosity	No data available	
Explosive properties	No data available	
Oxidising properties	No data available	

### 9.2. Other information

**Solid content (%)** 100  
**Softening Point** No information available  
**Molecular Weight** No information available

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VOC (volatile organic compound)	0 g/L / 0 %
Density	No information available
Bulk Density	0.9 - 1.2 g/cm <sup>3</sup>

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reactivity Product cures with moisture.

### 10.2. Chemical stability

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 under normal processing.

### 10.4. Conditions to avoid

Conditions to avoid Product cures with moisture.

### 10.5. Incompatible materials

Incompatible materials Strong acids. Strong bases. Strong oxidising agents.

### 10.6. Hazardous decomposition products

Hazardous decomposition products None under normal use conditions. Stable under recommended storage conditions.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Information on likely routes of exposure

#### Product information

Inhalation Inhalation of dust in high concentration may cause irritation of respiratory system.

Eye contact Causes serious eye damage.

Skin contact Causes skin irritation.

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

#### Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Redness. Burning. May cause blindness.

#### Numerical measures of toxicity

#### Acute Toxicity

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Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Quartz 14808-60-7	>2000 mg/kg ( Rat )		
Quartz (fine fraction) 14808-60-7	>2000 mg/kg ( Rat )		
Silica, amorphous 7631-86-9	= 7900 mg/kg ( Rat )	> 5000 mg/kg ( Rabbit )	> 2.2 mg/L ( Rat ) 1 h

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

<b>Skin corrosion/irritation</b>	Causes skin irritation.
<b>Serious eye damage/eye irritation</b>	Causes serious eye damage.
<b>Respiratory or skin sensitisation</b>	Based on available data, the classification criteria are not met.
<b>Germ cell mutagenicity</b>	Based on available data, the classification criteria are not met.
<b>Carcinogenicity</b>	Based on available data, the classification criteria are not met.
<b>Reproductive toxicity</b>	Based on available data, the classification criteria are not met.
<b>STOT - single exposure</b>	Based on available data, the classification criteria are not met.
<b>STOT - repeated exposure</b>	Based on available data, the classification criteria are not met.
<b>Aspiration hazard</b>	Based on available data, the classification criteria are not met.

## **SECTION 12: Ecological information**

### 12.1. Toxicity

#### **Ecotoxicity**

Chemical Name	Algae/aquatic plants	Fish	Toxicity to Micro-organisms	Crustacea	M-Factor
Silica, amorphous 7631-86-9	EC50: =440mg/L (72h, Pseudokirchneriella subcapitata)	LC50: =5000mg/L (96h, Brachydanio rerio)	-	EC50: =7600mg/L (48h, Ceriodaphnia dubia)	-

### 12.2. Persistence and degradability

<b>Persistence and degradability</b>	No information available.
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#### **Component Information**

##### **Silica, amorphous (7631-86-9)**

Method	Exposure time	Value	Results
			The methods for determining biodegradability are not applicable to inorganic substances

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## 12.3. Bioaccumulative potential

**Bioaccumulative potential** No information available.

Chemical Name	Partition coefficient	Bioconcentration factor (BCF)
Quartz 14808-60-7	-	0

## 12.4. Mobility in soil

**Mobility in soil** No information available.

## 12.5. Results of PBT and vPvB assessment

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

Chemical Name	PBT and vPvB assessment
Silica, amorphous 7631-86-9	The substance is not PBT / vPvB PBT assessment does not apply

## 12.6. Other adverse effects

**Other Adverse Effects** No information available.

## **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

**Waste from residues/unused products** Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable.

**Contaminated packaging** Do not reuse empty containers. Handle contaminated packages in the same way as the product itself.

**European Waste Catalogue** 17 09 04 mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03

**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 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



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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 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)

##### **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
Cement, portland, chemicals (Chromium VI reduced)	65997-15-1	item 47

##### **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

#### National Regulations

##### France

##### **Occupational Illnesses (R-463-3, France)**

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Chemical Name	French RG number
Quartz 14808-60-7	RG 25
Cement, portland, chemicals (Chromium VI reduced) 65997-15-1	RG 8, RG 10
Quartz (fine fraction) 14808-60-7	RG 25
Silica, amorphous 7631-86-9	RG 25

## Germany

### **Ordinance on Industrial Safety and Health - Germany - BetrSichV**

No flammable liquids in accordance with BetrSichV

**Water hazard class (WGK)** WGK 1

**TRGS - 510 Storage Class** Storage Class 13 : Non-combustible solids

## Netherlands

### **List of Carcinogenic, mutagenic and reproductive toxin substances in accordance with Inspectorate SZW (Netherlands)**

Chemical Name	Netherlands
Quartz 14808-60-7	Present (respirable dust, crystalline)
Quartz (fine fraction) 14808-60-7	Present (respirable dust, crystalline)

## 15.2. Chemical safety assessment

Chemical Safety Assessments have been carried out by the Reach registrants for substances registered at >10 tpa. No Chemical Safety Assessment has been carried out for this mixture

## **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**

H335 - May cause respiratory irritation  
H315 - Causes skin irritation  
H318 - Causes serious eye damage

#### **Legend**

SVHC: Substances of Very High Concern for Authorisation:

#### **Legend SECTION 8: Exposure controls/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

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## Indication of changes

**Revision note** SDS sections updated.

**Training Advice** No information available

**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**