

SAFETY DATA SHEET

BOSTIK 410 Flex

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

1.1 Product identifier

Product name : Bostik 410 Flex

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

Identified uses : Fibre Reinforced Repairing Mortar

1.3 Details of the supplier of the safety data sheet

Manufacturer : Bostik Turkey, Bostik Kimya San. Ve Tic. A.S

Mecidiyeköy Mh Oğuz Sok No:4A/7 Zemin Kat
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1.4 Emergency telephone number

Bostik TR : +90 212 942 98 00 (office hours)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Physical hazards : Not Classified.

Health hazards : Skin Irrit. 2 - H315; Eye Dam. 1 - H318, STOT SE 3 - H335, Skin Sens. 1 - H317

Environmental hazards : Not Classified.

The Full Text for all hazard statements are displayed in section 16.

2.2 Label elements

Label In Accordance With (EC) No 1272/2008

Ingredients : Portland Cement, Calcium hydroxide

Pictogram





Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 453/2010

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GHS05* GHS07

Signal word : Danger

Hazard statements : H315 Causes skin irritation.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.
H317 May cause an allergic skin reaction.

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.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 Call a POISON CENTER or doctor if you feel unwell.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P271 Use only outdoors or in a well-ventilated area.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P270 Do not eat, drink or smoke when using this product.
P337+P313 If eye irritation persists: Get medical advice/attention.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

Special packaging requirements

Containers to be fitted with child-resistant fastenings: Yes, applicable. Not mandatory.
Tactile warning of danger : Yes, applicable. Not mandatory.

2.3 Other hazards

Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII	: Not applicable.
Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	: Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Substance/mixture : Mixture

Name	EC No.	CAS No.	Content (w/w)	Classification (EC) No 1272/2008
Portland Cement	266-043-4	65997-15-1	15-40%	Skin Irrit. 2 - H315 Skin Sens. 1 - H317 Eye Dam. 1 - H318 STOT SE 3 - H335
Quartz (SiO ₂)	238-878-4	14808-60-7	30-70%	Not Classified



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Calcium Carbonate	215-279-6	1317-65-3	10-50%	Not Classified
Calcium hydroxide	215-279-6	1317-65-3	≤4	Skin Irrit. 2 - H315 Eye Dam. 1 - H318 STOT SE 3 - H335

The Full Text for all hazard statements are displayed in section 16.

Composition Comments

The data shown are in accordance with the latest EC Directives.

SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation

Move the exposed person to fresh air at once. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate breathing apparatus. If not breathing, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if any discomfort continues.

Ingestion

Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

Skin contact

Remove affected person from source of contamination. Remove contaminated clothing. Flush skin thoroughly with water. Get medical attention if irritation persists after washing.

Eye contact

Remove victim immediately from source of exposure. Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Get medical attention immediately. Continue to rinse.

Protection of first aiders

First aid personnel should wear appropriate protective equipment during any rescue. Wash contaminated clothing thoroughly with water before removing it from the affected person, or wear gloves. It may be dangerous for first aid personnel to carry out mouth-to-mouth resuscitation.



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4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

- Inhalation** : May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system.
- Ingestion** : May cause burns to mouth, throat and stomach.
- Skin contact** : Causes irritation or severe burns
- Eye contact** : Causes serious eye damage.

Over-exposure signs/symptoms

- Inhalation** : No specific data
- Ingestion** : No specific data
- Skin contact** : No specific data
- Eye contact** : No specific data

4.3 Indication of any immediate medical attention and special treatment needed

No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Extinguishing media

Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

Unsuitable extinguishing media

No data available

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

5.3 Advice for firefighters



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Special protective actions for fire-fighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Use water spray to keep fire-exposed containers cool. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. Avoid breathing fire vapours.

Special protective equipment for fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

No action shall be taken without appropriate training or involving any personal risk. Keep unnecessary and unprotected personnel away from the spillage. Do not touch or walk into spilled material. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

6.2 Environmental precautions

Avoid discharge into drains or watercourses or onto the ground. Avoid discharge to the aquatic environment. Inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil or air).

6.3 Methods and material for containment and cleaning up

Large Spillages: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Absorb in vermiculite, dry sand or earth and place into containers. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.

Small Spillages: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble.

Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

6.4 Reference to other sections

For personal protection, see section 8.

See section 11 for additional information on health hazards. For waste disposal, see section 13.

SECTION 7: Handling and storage



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7.1 Precautions for safe handling

Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Prevent formation of dust. Provide suction extractors if dust is formed. Do not breathe dust or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from acids. Empty containers retain product residue and can be hazardous. Do not reuse container.

Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Change work clothing daily before leaving workplace.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10 of SDS) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

7.3 Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
Portland Cement	8mg/m ³ The amount of dust in the respiratory tract. (Average 8 hours)
Quartz (SiO ₂)	<u>10mg/m³</u> %SiO ₂ +2 The amount of dust in the respiratory tract. (Average 8 hours)
Calcium Carbonate	5mg/m ³ The amount of dust in the respiratory tract. (Average 8 hours)
Calcium hydroxide	5mg/m ³ The amount of dust in the respiratory tract. (Average 8 hours)

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Recommended monitoring procedures

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment

8.2 Exposure controls

Information provided are the advices on the application of the product during the production phase.

Protective equipment



Process Conditions

Provide eyewash station.

Engineering measures

If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Respiratory equipment

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with European Standard EN374. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended.

Eye protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment for eye and face protection should comply with European Standard EN166. Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.



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Hygiene measures

Provide eyewash station and safety shower. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Clean equipment and the work area every day. Good personal hygiene procedures should be implemented. Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke.

Skin protection

Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible.

Environmental Exposure Controls

Keep container tightly sealed when not in use. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	: Powder
Colour	: White
Odour	: Not Applicable
Solubility	: No data available.
Initial boiling point and boiling range	: Not Applicable.
pH Value - solution	: >11
Viscosity, Dynamic	: Not Applicable.
Decomposition temperature	: No data available.
Flash point	: No data available.
Specific Gravity	: 1,6 kg/dm ³
Auto Ignition Temperature (°C)	: No data available.

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity



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10.1 Reactivity

See Section: 10.3

10.2 Chemical stability

Stable under normal temperature conditions and recommended use. Stable under the prescribed storage conditions.

10.3 Possibility of hazardous reactions

When arc welding vessels containing aqueous solutions of this material take care to control any explosion risk from hydrogen evolved by electrolysis. Aqueous solutions will react with aluminium evolving hydrogen gas which can form an explosive mixture with air. Can react violently if in contact with acids. Can react with sugar residues to form carbon monoxide

10.4 Conditions to avoid

See Section: 10.3

10.5 Incompatible materials

See Section: 10.3

10.6 Hazardous decomposition products

None known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Portland Cement

- Short Term Effects

Eye Contact

Cement is a severe eye irritant. Mild exposure can cause soreness. Gross exposures or untreated mild exposures can lead to chemical burning and ulceration of the eye.

Skin

Cement powder or any cement/water mixture may cause irritant contact dermatitis, allergic (chromium) dermatitis, and/or burns.

Ingestion

The swallowing of small amounts of cement or any cement/water mixtures is unlikely to cause any significant reaction. Larger doses may result in irritation to the gastro intestinal tract.

Inhalation

Cement powder may cause inflammation of mucous membranes.

- Chronic Effects

High repeated exposures in excess of the OEL have been linked with rhinitis and coughing. Skin exposure has been linked to allergic (chromium) dermatitis. Allergic dermatitis more commonly arises through contact with cement/water mixtures than dry cement.

Germ cell mutagenicity (in vitro - in vivo):

No information available.

Carcinogenicity:

No information available.



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Reproductive toxicity (Fertility – Developmental):

No information available.

SECTION 12: Ecological information

12.1 Toxicity

Portland Cement.

The addition of cements to water will, the pH to rise and may therefore be toxic to aquatic life in some circumstances.

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

12.6 Other adverse effects

No information required.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information

The generation of waste should be minimised or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements. When handling waste, the safety precautions applying to handling of the product

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should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.

Disposal methods

Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents. Waste packaging should be collected for reuse or recycling. Incineration or landfill should only be considered when recycling is not feasible.

SECTION 14: Transport information

The product is not classified as hazardous for transport purposes.

- 14.1** UN Number : Not applicable.
14.2 UN proper shipping name : Not applicable.
14.3 Transport hazard class(es) : Not applicable.
14.4 Packing group : Not applicable.
14.5 Environmental hazards : Not applicable.
14.6 Special precautions for user : Not applicable.
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code : Not applicable.

Special precautions for user: Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

SECTION 15: Regulatory information

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

- Workplace Exposure Limits EH40.
- Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.
- The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).
- Chemicals (Hazard Information & Packaging) Regulations.

15.2 Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee

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for any specific product features and shall not establish a legally valid contractual relationship.

Information Sources

This SDS is prepared based on the information received from the producers of raw materials used in the mixture.

Hazard Statements In Full

- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.

Abbreviations and acronyms:

- EC: European Inventory of Existing Commercial Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
- Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
- Skin Sens. 1: Sensitisation – Skin, Hazard Category 1
- STOT SE 3: Specific target organ toxicity – Single exposure, Hazard uses.
- Eye Irrit. 2: Eye corrosion/irritation, Hazard Category 2

Notice to reader

Unless otherwise specified in section 1, Bostik Products are intended for industrial application only. Keep out of the reach of children.

Further Information

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.