



**MATERIAL SAFETY DATA SHEET**  
*according to 1907/2006/EC, Article 31*

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**SECTION 1 – Identification of substance**

**Product details:** Product Code FCMMF

**Trade name:** FLEX-C-MENT™ Micro Flex

**Article Number:** 00010

**Application of the substance / the preparation:** Cement based mixture

**Manufacturer/Supplier**

DBS Insaat Taah Kimya San ve Tic Ltd Sti

Akse Mah 471 Sok No.15 Cayirova / Gebze – KOCAELI /TURKEY

Tel : +90 262 744 96 32

Fax : +90 262 744 27 14

e-mail : info@dekorbeton.com

**Emergency information:** +90 262 744 96 32

**SECTION 2- Hazards identification**



Xi : Irritant

R36 irritating to eyes

R37 irritating to respiratory system

R38 irritating to skin

R43 may cause sensitization by skin contact

**Skin:** (Acute) Exposure to dry Micro Flex may cause drying of the skin with consequent mild irritation or more significant effects attributable to aggravation of other conditions. Discomfort or pain cannot be relied upon to alert a person to hazardous skin exposure.(Chronic) Dry Micro Flex coming in contact with wet skin or exposure to wet Micro Flex may cause severe skin effects including thickening, cracking or fissuring of the skin. Prolonged exposure can cause severe skin damage in the form of chemical (caustic) burns. (Acute/Chronic) Some individuals may exhibit an allergic response upon exposure to Micro Flex. The response may appear in a variety of forms ranging from a mild rash to severe skin ulcers.

**Inhalation:** Excessive exposure to dust cause irritation of nose and throat. Pre-existing upper respiratory and lung diseases may be aggravated by inhalation. (Chronic) Inhalation exposure to free crystalline silica may cause delayed lung injury including silicosis, a disabling and potentially fatal lung disease, and/or cause or aggravate other lung diseases or conditions.

**Eyes:** Acute/Chronic) Exposure to airborne dust may cause immediate or delayed irritation or inflammation of the cornea. Eye contact by large amounts of dry powder or splashes of wet Micro Flex may cause effects ranging from moderate eye irritation to chemical burns or blindness.

**Ingestion:** (Acute/Chronic) Internal discomfort or ill effects are possible if large quantities are swallowed

**Carcinogenicity:** Micro Flex is not recognized as a carcinogen by the NTP, OSHA, or IARC. However, it may contain trace amounts of heavy metals recognized as carcinogens by these organizations. In addition, it also contains crystalline silica which IARC classifies as a known human carcinogen (Group I). The NTP, in its ninth Annual Report on Carcinogens, classified “silica crystalline (repairable)” as a known carcinogen.

**Hazardous Ingredients:**Portland cement, Ca SO<sub>4</sub>, Mg O, Ca O**SECTION 3 - Composition/information on ingredients**

This product consists of a heterogeneous mixture of Portland cement, sand and silica. The major compounds are:

	<b>Cas No:</b>	<b>EC No:</b>	<b>Pre-Registration Ref. Number</b>
Portland Cement	65997-15-1	266-043-4	05-2114741031-66-0000
CaSO <sub>4</sub>	7778-18-9	231-900-3	05-2114741032-64-0000
CaO	1305-78-8	215-138-9	05-2114741033-62-0000
MgO	1309-48-4	215-171-9	05-2114741035-58-0000
Silicon Di Oxide	69012-64-2	273-761-1	05-2114741037-54-0000
Dolomite	16389-88-1	240-440-2	05-2114682744-37-0000

Due to the use of ingredients mined from the earth's crust, trace amounts of naturally occurring, potentially harmful constituents may be detected during analysis.

**SECTION 4- First aid measures**

**FLEX-C-MENTTM Micro Flex** is a cementations mixture of cement, sand, etc. When in contact with moisture in eyes or on skin, or when mixed with water, it becomes highly caustic (pH>12) and will damage or burn (as severely as third degree) the eyes or skin. Inhalation may cause irritation to the moist mucous membranes of the nose, throat and upper respiratory system or may cause or may aggravate certain lung diseases or conditions. Use exposure controls or personal protection methods described in Section 12.

**Eyes:** Immediately flush eye thoroughly with water. Continue flushing eye for at least 15 minutes, including under lids, to remove all particles. Call physician immediately.

**Skin:** Wash skin with cool water and pH-neutral soap or a mild detergent. Seek medical treatment if irritation or inflammation develops or persists. Seek immediate medical treatment in the event of burns.

**Inhalation:** Remove person to fresh air. If breathing is difficult, administer oxygen. If not breathing, give artificial respiration. Seek medical help if coughing and other symptoms do not subside. Inhalation of large amounts of Micro Flex requires immediate medical attention.

**Ingestion:** Do not induce vomiting. If conscious, have victim drink plenty of water and call a physician immediately.

**SECTION 5- Fire-fighting measures**

**Flammability Class:** Not applicable

**Extinguishing Media:** Not applicable

**Special firefighting procedures:** Not applicable

**Unusual Fire & Explosion Hazards:** None Known.

**Permissible Exposure Level:** Not applicable

**Mixture HMIS RATING**

**Health = 1      Fire = 0      Reactivity = 0**

**SECTION 6 - Accidental release measures**

Contain material to prevent contamination of soil, surface water or ground water. Use dry clean-up methods that do not disperse dust into the air or entry into surface water. Material can be used if not contaminated. Place in an appropriate labeled container for disposal or use. Avoid inhalation of dust and contact with skin and eyes. Use exposure control and personal protection methods as described in Section 8.

**SECTION 7 – Handling and Storage**

Keep dry until used. Handle and store in a manner so that airborne dust does not exceed applicable exposure limits. Use adequate ventilation and dust collection. Use exposure control and personal protection methods as described in Section 8.

### ***SECTION 8-Exposure Controls/Personal Protection***

***Eye Protection:*** Wear safety glasses with side shields or goggles to avoid contact with eyes. In extreme dusty environments and unpredictable environments, wear tight fitting unvented or indirectly vented goggles to avoid eye irritation or injury. Contact lenses should not be worn when handling cement or cement containing products..

***General protective and hygienic measures:***

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

***Respiratory protection:***

Use local exhaust or general dilution ventilation to control dust Levels below applicable exposure limits.

Minimize dispersal of dust into air. If local or general ventilation is not adequate to control dust levels below applicable exposure limits or when dust causes irritation or discomfort, use MSHA / NIOSH approved respirators.

***Protection of skin:*** Wear impervious abrasion and alkali-resistant gloves, boots, long sleeved shirt, long pants or other protective clothing to prevent skin contact. Promptly remove clothing dusty with Micro Flex or clothing dampened with moisture mixed with Micro Flex, and launder before re-use. If contact occurs, wash areas contacted by material with pH neutral soap and water.

***Ventilation:*** General ventilation is not recommended during normal use. Local ventilation may be required during certain operations to prevent inhalation of dust.

### ***SECTION 9-Physical and Chemical Properties***

***Appearance/Odor:*** Gray, odorless

***Physical State:*** Solid (powder mix with sand and silica)

***Vapor Pressure:*** Not applicable

***Vapor Density:*** Not applicable

***Ph (In Water):*** 12-13

***Solubility In Water:*** Slightly (0.1%-1.0%) (ASTM D 1293-95)

### ***SECTION 10 - Stability and Reactivity***

***Stability:*** Product is stable. Keep dry until used

***Conditions To Avoid:*** Unintentional contact with water. Contact with water will result in hydration and produces (caustic) calcium hydroxide.

***Incompatibility:*** Wet Micro Flex is alkaline. As such, it is incompatible with acids, ammonium salts and aluminum metal.

***Hazardous Decomposition:*** Will not occur

***Hazardous Polymerization:*** Will not occur

### ***SECTION 11 - Toxicological information***

See Section 2 for Hazard Identification. No recognized unusual toxicity to plants and animals.

Conditions aggravated by exposure: Eye disease, skin disorders and Chronic Respiratory conditions.

### ***SECTION 12 – Ecological Information***

No specific studies have been conducted by DBS on the ecotoxicity or environmental fate of this material; however, commonly available data on the material indicate that uncontrolled releases to soil, groundwater, or surface waters could entail acute and/or chronic ecological effects, depending on the quantity and concentration of such releases. Accordingly, all appropriate measures should be taken to avoid uncontrolled releases to the environment, and any spills or other uncontrolled releases which may occur should be contained and cleaned up immediately in accordance with Section 6.

### ***SECTION 13 - Disposal considerations***

Do not dump into any sewers, on the ground or into any body of water. All disposal methods must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliances with applicable laws are the responsibility solely of the waste generator.

#### **SECTION 14 – Transport Information**

##### **U.S. Department of Transportation Ground (49 CFR):**

*Proper shipping name:* Not regulated

*Hazard class or division:* None

*Identification number:* None

*Packing group:* None

##### **International Air Transportation (ICAO/IATA):**

*Proper shipping name:* Not regulated

*Hazard class or division:* None

*Identification number:* None

*Packing group:* None

##### **Water Transportation (IMO/IMDG):**

*Proper shipping name:* Not regulated

*Hazard class or division:* None

*Identification number:* None

*Packing group:* None

*Exceptions:* None

*Marine pollutant:* None known

#### **SECTION 15 - Regulatory Information**

##### ***Product related hazard information:***

The product has been classified in accordance with directives on irritant materials.

*Hazard symbols:* Irritant

##### ***Risk phrases:***

Irritating to eyes and skin.

May cause sensitization by skin contact.

Harmful: danger of serious damage to health by prolonged exposure through inhalation.

Harmful: may cause damage if swallowed.

Vapors may cause drowsiness and dizziness.

##### ***Safety phrases:***

**S2** keep out of reach of children

**S13** keep away from food, drink and animal feeding stuffs

**S20** when using do not eat or drink

**S24/25** avoid contact with skin and eye

**S26** in case of contact with eyes, rinse immediately with plenty of water and seek medical advice

**S28** after contact with skin, wash immediately with plenty of soap-suds

**S37/39** wear suitable gloves and eye/face protection

#### **SECTION 16 – Other Information**

The data contained herein are furnished for information only and are believed to be reliable. However, DBS LTD does not assume responsibility for any results obtained by persons over whose methods DBS LTD has no control. It is the user's responsibility to determine the suitability of DBS's products or any production methods mentioned herein for a particular purpose, and to adopt such precautions as may be advisable for the protection of property and persons against any hazards that may be involved in the handling and use of any of DBS's products. In light of the foregoing, DBS LTD specifically disclaims all warranties, express or implied, including warranties of merchantability and fitness for a particular purpose, arising from sale or use of DBS LTD's products. DBS LTD further disclaims any liability for consequential or incidental damages of any kind, including lost profits.