



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

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**SECTION 1 – Identification of substance**

**Product details:** Product Code FCMLC

**Trade name:** FLEX-C-MENT™ Liquid Colors

**Article Number:** 000013

**Application of the substance / the preparation:** Liquid - Ironoxide Pigments

**Manufacturer/Supplier**

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**SECTION 2- Hazards identification**



Xi : Irritant

R22 harmful if swallowed

R36 irritating to eyes

R37 irritating to respiratory system

R38 irritating to skin

R43 may cause sensitization by skin contact

**Skin:** This material may cause skin irritation or rash upon prolonged or repeated contact.

**Inhalation:** Excessive exposure to vapors or spray mists can cause irritation of eyes, nose and throat.

**Eyes:** This material may be an eye irritant.

**Primary Route (S) Of Entry:** Inhalation of vapors (especially if sprayed or heated).

**SECTION 3 - Composition/information on ingredients**

· **Chemical characterization :** Water based dilution

· **Description:** Mixture of substances listed below with nonhazardous additions.

|                      | <b>Cas No:</b> | <b>EC No:</b> | <b>Pre-Registration Ref. Number</b> |
|----------------------|----------------|---------------|-------------------------------------|
| Iron hydroxide oxide | 20344-49-4     | 243-746-4     | 05-2115117488-43-0000               |
| Diiron trioxide      | 1309-37-1      | 215-168-2     | 05-2115117821-55-0000               |
| Triiron tetraoxide   | 1317-61-9      | 215-277-5     | 05-2115118310-67-0000               |
| Titanium dioxide     | 13463-67-7     | 236-675-5     | 05-2115118582-52-0000               |
| Water                | 7732-18-5      | 231-791-2     | 05-2115121801-61-0000               |

**SECTION 4- First aid measures**

**After inhalation:** In case of unconsciousness place patient stably in side position for transportation.

**After skin contact:** Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.

**After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

**After swallowing:** If symptoms persist consult doctor.

### ***SECTION 5- Fire-fighting measures***

· **Suitable extinguishing agents:**

CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· **Protective equipment:**

Because fire may produce thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or positive-pressure mode.

**Mixture HMIS RATING**

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

### ***SECTION 6 - Accidental release measures***

· **Person-related safety precautions:** Not required.

· **Measures for environmental protection:** No special measures required.

· **Measures for cleaning/collecting:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

### ***SECTION 7 – Handling and Storage***

· **Handling:** No special measures required

· **Information for safe handling:** No special precautions are necessary if used correctly.

· **Information about protection against explosions and fires:** No special measures required.

· **Storage:** No special measures required

· **Requirements to be met by storerooms and receptacles:** No special requirements.

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:** Keep receptacle tightly sealed.

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

· **Additional information about design of technical systems:** No further data; see item 7.

· **Components with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

· **Breathing equipment:** Not required.

· **Protection of hands:**

#### Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests, no recommendation to the glove material can be given for the product.

Select the glove material upon consideration of the penetration times, rates of diffusion and the degradation.

· **Material of gloves** The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several

substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material** The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:** Tightly sealed goggles

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

#### · **General Information**

**Form:** Fluid

**Color:** According to product specification

**Odor:** Characteristic

#### · **Change in condition**

**Melting point/Melting range:** Undetermined.

**Boiling point/Boiling range:** Undetermined.

- **Flash point:** Not applicable.

- **Auto igniting:** Product is not self igniting.

- **Danger of explosion:** Product does not present an explosion hazard.

- **Vapor pressure at 20°C (68°F):** 23.0 hPa (17 mm Hg)

- **Density at 20°C (68°F):** 1.20 g/cm<sup>3</sup>

#### · **Solubility in / Miscibility with**

**Water:** Miscible

- **Solvent content:** 0.0 %

**Organic solvents:** 0.0 %

**Water:** 70.0 %

- **Solids content (Iron oxide Pigments):** 30.0 %

- **Volatile Organic Compounds:** Not determined

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

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

- **Dangerous reactions** No dangerous reactions known.

- **Dangerous products of decomposition:** No dangerous decomposition products known.

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

#### · **Acute toxicity:**

#### · **Primary irritant effect:**

- **on the skin:** Irritant to skin and mucous membranes.

- **on the eye:** Irritating effect.

- **Sensitization:** No sensitizing effects known.

#### · **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

#### **Irritant**

### ***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. Releases of volatile components to the atmosphere are not believed to entail significant ecological consequences provided such releases are within the exposure levels set forth in this document.

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*

Information provided is for unused product only.

Recommended method of disposal: Dispose of in accordance with Federal, State and local regulations.

### SECTION 14 – Transport Information

- **DOT regulations:** N/A
- **Hazard class:** N/A
- **Limited Quantity Exemption:** No Limited Quantity exemption applies for this shipping class.
- **U.S. Domestic Ground Shipments:** Same as listed for Standard Shipments above.
- **U.S. Domestic Ground Non-Bulk (119 gal or less per container) Shipments:** Same as listed for Standard Shipments above.
- **Emergency Response Guide (ERG) Number:** Not determined
- **Land transport ADR/RID (cross-border):**
- **ADR/RID class:** N/A
- **Maritime transport IMDG:**
- **IMDG Class:** N/A
- **Marine pollutant:** No
- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** N/A

### SECTION 15 - Regulatory Information

· **Sara**

· **Section 355 (extremely hazardous substances):**

*None of the ingredient is listed.*

· **Section 313 (Specific toxic chemical listings):**

*This product may contain 1 or more toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR part 372. If so, the chemicals are listed below.*

*None of the ingredients is listed.*

· **TSCA (Toxic Substances Control Act):**

*All ingredients are listed.*

· **Proposition 65**

· **Chemicals known to the State of California (Prop. 65) to cause cancer:**

*None of the ingredients is listed.*

· **Chemicals known to the State of California (Prop. 65) to cause reproductive toxicity:**

*None of the ingredients is listed.*

· **Carcinogenicity categories:** N/A

· **EPA (Environmental Protection Agency)**

*None of the ingredients is listed.*

· **IARC (International Agency for Research on Cancer)**

*None of the ingredients is listed.*

· **NTP (National Toxicology Program)**

*None of the ingredients is listed.*

· **TLV (Threshold Limit Value established by ACGIH)**

*None of the ingredients is listed.*

· **MAK (German Maximum Workplace Concentration)**

*None of the ingredients is listed.*

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

*None of the ingredients is listed.*

· **OSHA-Ca (Occupational Safety & Health Administration)**

*None of the ingredients is listed.*

· **Product related hazard information:**

*The product has been classified and marked in accordance with directives on hazardous materials.*

· **Hazard symbols:** Xi Irritant

· **Risk phrases:** 36/38 Irritating to eyes and skin.

**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.