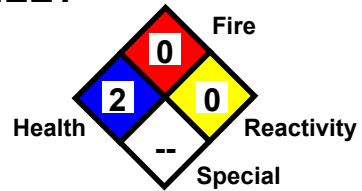


# MATERIAL SAFETY DATA SHEET



**Issue Date:** 2/08

**Supersedes:** 9/07

**NFPA 704 DESIGNATION HAZARD RATING**

4 = Extreme      3 = High      2 = Moderate  
1 = Slight      0 = Insignificant

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identity: **Flexobase™**  
 Product Use: **Flexible Mortar**  
 Manufactured By: **Sealoflex® Inc.** **Chemtrec**  
 2520 Oscar Johnson Drive **800-424-9300**  
 Charleston, SC 29405  
 PHONE: 843 554-6466 FAX: 843 554-6458

## 2. COMPOSITION & INFORMATION ON INGREDIENTS

Component	% weight	CAS #
Portland Cement	20.0 – 40.0	65997-15-1
Silica Sand	50.0 – 70.0	14808-60-7
Vinyl Polymer	4.0 – 12.0	Proprietary
Additives	<1.0	Proprietary

## 3. HAZARDS IDENTIFICATION

**EXPOSURE LIMITS (IF APPLICABLE)**

Component	Regulation	Exposure	Value
Portland Cement Respirable Dust Total Dust	OSHA	TWA	5mg/m <sup>3</sup>
	OSHA	TLV	15mg/m <sup>3</sup>
	ACGIH	TWA	10mg/m <sup>3</sup>
Sand (crystalline silica)	OSHA	TWA	10% SiO <sub>2</sub> +2
	ACGIH	TWA	0.025 mg/m <sup>3</sup>
	NIOSH	TWA	0.05 mg/m <sup>3</sup>

**POTENTIAL HEALTH EFFECTS:**

**PRIMARY ROUTES OF ENTRY:** Eye  
Skin  
Inhalation

**POTENTIAL HEALTH EFFECTS:**

**EYE CONTACT:** POTENTIAL HEALTH EFFECTS:

**EYE CONTACT:** Eye contact with wet or dry Flexobase may cause burning and possible corneal edema. Crystalline silica (quartz) may cause abrasion of the cornea.

**SKIN CONTACT:** Direct contact with wet Flexobase may cause extensive burns resulting in permanent skin damage.

**INGESTION:** Ingestion of dry or unhardened Flexobase causes burns to the gastrointestinal tract.

**INHALATION:** Inhalation of crystalline silica (quartz) can cause silicosis, fibrosis of the lungs and increase the risk of tuberculosis. Silicosis may be progressive and lead to disability and death. Crystalline silica inhaled from occupational sources in sufficient concentrations is classified as a carcinogen. There is evidence that exposure to crystalline silica or the disease silicosis is associated with the increased incidence of scleroderma, an autoimmune disorder manifested by fibrosis of the skin and internal organs. Exposure to airborne Flexobase dust may cause upper respiratory tract irritation

**4. FIRST AID MEASURES**

- EYE CONTACT:** Gently lift and hold eyelids apart and flush eyes immediately and continuously with large amounts of water. If symptoms persist or there is any visual difficulty, seek medical attention.
- SKIN CONTACT:** Immediately flush skin with plenty of clean running water while removing contaminated clothing. Continue for at least 15 minutes. If symptoms persist, seek medical attention.
- INHALATION:** If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet and seek medical attention. There is no specific treatment because the health effects associated with silica are chronic. If gross inhalation of Flexobase occurs, remove the person to fresh air, perform artificial respiration as needed, and obtain medical attention as needed.
- INGESTION:** **DO NOT** induce vomiting. Administer 4 to 8 ounces of water or milk. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

**5. FIRE FIGHTING MEASURES**

- GENERAL:** Flexobase is not flammable.
- FLASHPOINT AND METHOD:** Not Applicable
- FLAMMABLE LIMITS:** Lower: Not Applicable Upper: Not Applicable
- AUTOIGNITION TEMPERATURE:** Not Applicable
- HAZARDOUS COMBUSTION PRODUCTS:** Oxides of carbon and nitrogen, various hydrocarbons.
- EXTINGUISHING MEDIA:** Water, Foam, CO<sub>2</sub>, dry chemical
- FIRE FIGHTING INSTRUCTIONS:** Avoid exposing skin to wet Flexobase. Do not release runoff materials to sewers or waterways. Flexobase reacts with water and cures within hours and may clog sewers and waterways.
- UNUSUAL FIRE AND EXPLOSION HAZARDS:** None reported.

**6. ACCIDENTAL RELEASE MEASURES**

- SPILL:** Wear personal protective equipment described in Section 8. Collect material using methods, such as a HEPA vacuum, that do not produce dust. Place the Flexobase in an appropriate covered container and dispose of according to federal, state, and local regulations.

**7. HANDLING AND STORAGE**

- STORAGE TEMPERATURE:** Normal temperatures do not affect this product.
- STORAGE:** Keep container tightly closed and dry.
- HANDLING:** Open in well ventilated areas. Prevent skin and eye contact. Dispose of according to local regulations. Do not breathe dust created during the handling of this product. Silica may be present without a visible cloud. Use good housekeeping procedures to prevent the accumulation of Flexobase in the workplace. Be aware of the potential health risks associated with the use of this product and the appropriate personal protective equipment and engineering controls to limit exposure.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

EXPOSURE GUIDELINES: **Exposure to airborne crystalline silica shall not exceed the 8 hour TWA (see Section 2).**

VENTILATION: **Use local exhaust as required to maintain exposures below the occupational exposure limits**

RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT:

RESPIRATORY: **If the workplace exposure limit(s) is exceeded, a NIOSH/MSHA approved respirator is advised.**

EYES: **Safety glassed with side shields, tight fitting goggles.**

SKIN: **Wear impervious gloves and clothing.**

OTHER: **Provide sufficient mechanical general and/or local exhaust ventilation to maintain exposure below guidelines.**

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical State	<b>Gray Powder</b>	Bulk Density	<b>No Data</b>
Odor	<b>Mild</b>	Vapor Pressure	<b>Not Applicable</b>
Odor Threshold	<b>Not Applicable</b>	Vapor Density	<b>Not Applicable</b>
Molecular Formula	<b>No Data</b>	Evaporation Rate (n-Butyl Acetate=1)	<b>Not Applicable</b>
Molecular Weight	<b>No Data</b>	VOC content	<b>&lt; 1%</b>
Boiling Point	<b>Not Applicable</b>	% Volatiles	<b>&lt; 1%</b>
Freezing Point	<b>Not Applicable</b>	Solubility in Water	<b>Dispersible</b>
Specific Gravity	<b>1.26</b>	Viscosity (cps)	<b>Not Applicable</b>
Density (lbs/gal)	<b>10.5</b>	pH	<b>Not Applicable</b>

**10. STABILITY & REACTIVITY**

GENERAL: **This product is stable under normal conditions.**

CONDITIONS TO AVOID: **Must be kept dry.**

INCOMPATIBLE MATERIAL: **Mineral acids, strong oxidizing and reducing agents.**

HAZARDOUS POLYMERIZATION: **Will not occur.**

HAZARDOUS DECOMPOSITION PRODUCTS: **May form oxides of carbon and silicon tetrafluoride**

**11. TOXICOLOGICAL INFORMATION**

CHRONIC/CARCINOGENICITY:  
**Contains Silica sand, known Human Carcinogen (Category 1)**  
**NTP - Listed On The National Toxicology Program**  
**Listed In the IARC Monographs**

**12. ECOLOGICAL INFORMATION**

**There is no data available for this material.**

**13. DISPOSAL CONSIDERATIONS**

RCRA 40 CFR 261 CLASSIFICATION: **Not Classified**

U.S. EPA WASTE NUMBER/DESCRIPTION: **None**

DISPOPSAL METHOD: **Can be disposed of as common waste in accordance with local regulations.**

CONTAINER DISPOSAL: **Empty container retains potentially hazardous residue. Observe all hazard precautions.**

**14. TRANSPORTATION INFORMATION**

DOT INFORMATION – 49 CFR 172.101

DESCRIPTION: **Not Applicable**

CONTAINER MODE: **Fifty pound paper bags.**

NOS COMPONENT: **Not Applicable**

RQ (REPORTABLE QUANTITY) – 49 CFR 172.101: **Not Applicable**

**15. REGULATORY INFORMATION**

WORKPLACE CLASSIFICATION:

**This material is considered hazardous under OSHA Communication Standard 29CFR1910.1200.**

**This material is a “controlled product under the Canadian Workplace Hazardous Materials Information System (WHIMS).**

SARA TITLE III: SECTION 311/312 (40CFR370)

**This material qualifies as a hazardous chemical with delayed health effects under 29CFR1910.1200.**

SARA TITLE III: SECTION 313 (40CFR372)

**This material does not contain a chemical listed in Section 313 at or above the de minimis concentrations.**

CERCLA (40CFR302.4)

**Releases of this material to air, land, or water are not reportable to the National Response Center under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) or to state and local emergency planning committees under the Superfund Amendments and Reauthorization Act (SARA) Title III Section 304.**

U.S. TOXIC SUBSTANCES CONTROL ACT (TSCA)

**All components of this material are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.**

CALIFORNIA (PROPOSITION 65)

**A component of this product, crystalline silica (quartz) is classified as a substance known to the state of California to cause cancer:**

COMPONENT	CAS NUMBER
Crystalline Silica (Quartz)	14808-60-7

CANADIAN ENVIRONMENTAL PROTECTION ACT

**Not listed**

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS):

**Material is considered to be a hazardous under the Hazardous Products Act as defined by the Controlled Products Regulations (Class D2A – Materials causing other toxic effects and Class E - Corrosive material) and is therefore subject to the labeling and MSDS requirements of WHMIS.**

**16. OTHER INFORMATION**

HMIS HAZARD RATING	HEALTH	FIRE	REACTIVITY	PROTECTIVE EQUIPMENT
	2	0	0	E

LEGEND

ACGIH	American Conference of Governmental Industrial Hygienists
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Levels
STEL	Short Term Exposure Limit
TLV	Threshold Limit Value
TWA	Time Weighted Average
VOC	Volatile Organic Compounds

**PRODUCT IDENTITY: Flexobase™**

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*compiled from sources believed to be reliable; it is the responsibility of the user to investigate and verify its validity. The buyer assumes all responsibility of using and handling the product in accordance with applicable federal, state and local regulations.*