# SAFETY DATA SHEET
## RESIDENTIAL GRADE FIRE CAULK

## SECTION 1. IDENTIFICATION

**Product name:** Residential Grade Fire Caulk
**Product code:** F4P FIRE BLOCK 0250-8648
**Synonyms:** Silicate-based caulk
**REACH Registration Number:** No data available.
**Relevant identified uses of the substance or mixture and uses advised against**
**General use:** Firestopping Caulk/ Type V residential construction.
**Uses advised against:** None known.
**Details of the supplier and of the safety data sheet**
**Manufacturer/Distributor:** F4P, 11675 SW Tom Mackie Blvd, Port St. Lucie, FL 34987
**Emergency telephone number: CHEMTREC 1-800-424-9300**
**Poison Control telephone number: 1-800-222-1222**

## SECTION 2. HAZARDS IDENTIFICATIONTION

**Classification of the substance or mixture**

**Product definition:** Mixture.

**Classification in accordance with 29 CFR 1910 (OSHA HCS)**

Not a dangerous substance according to OSHA or to European Union Legislation.

**Label Elements**

Not a dangerous substance according to GHS.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Substances** Notapplicable.

**Mixtures**

| % by Weight | Ingredient | CAS # | EC # | Index # | GHS Classification I |
|---|---|---|---|---|---|
| 15 - 40 | Sodium Silicate | 1344-09-8 | 215-687-4 | - | - |
| 30 - 70 | Kaolin Clay* | 1332-58-7 | 310-194-1 | - | - |

*Contains <1% crystalline silica (quartz) and <1% Titanium Dioxide
There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.



**Revision Date:** November 28, 2023

## SECTION 4. FIRST AID MEASURES

**Description of first aid measures**

**Inhalation:** If product vapor causes respiratory irritation or distress, move the exposed person to fresh air immediately. If breathing is difficult or irregular, administer oxygen; if respiratory arrest occurs, start artificial respiration by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. If symptoms persist, seek medical attention.

**Eye contact:** Do not rub eyes. Immediately flush eyes with large amounts of water for 15 minutes, occasionally lifting upper and lower lids. Remove contact lenses, if present and easy to do, after first 2 minutes and continue rinsing. Obtain immediate medical attention, preferably from an ophthalmologist.

**Skin contact:** Remove contaminated clothing. Quickly and gently remove excess product with a dry cloth or paper towel. Flush skin with lukewarm water for 15 minutes. Wash affected area with soap and water. Clean contaminated clothing and shoes before reuse. If irritation persists, seek medical advice.

**Ingestion:** Rinse mouth with water if the victim is conscious. Remove dentures, if present. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs naturally, have the victim lean forward to reduce the risk of aspiration of material into the lungs. Never give anything by mouth to an unconscious or convulsing person. Do not leave the victim unattended. Get medical attention immediately.

**Most important symptoms and effects, both acute and delayed**

**Potential health symptoms and effects**

**Eye contact:** Causes eye irritation. Symptoms may include redness, itching, swelling, tearing and pain. Causes mechanical irritation of the cornea.

**Skin contact:** May cause skin irritation with localized redness, itching and discomfort.

**Inhalation:** Vapor may cause irritation of the upper respiratory tract.

**Ingestion:** May cause irritation of the gastrointestinal system with nausea, vomiting and constipation.

**Chronic:** Persons with preexisting skin disorders or respiratory impairment may be more susceptible to the effects of this material. Chronic skin exposure may dry skin or cause dermatitis. Titanium Dioxide is a suspected animal carcinogen. Crystalline Silica (quartz) has been determined to be carcinogenic as respirable dust. Refer to Section 11.2.

**Indication of any immediate medical attention and special treatment needed**

**Advice to Doctor and Hospital Personnel**

Treatsymptomaticallyandsupportively.

## SECTION 5. FIRE-FIGHTING MEASURES

**Extinguishable media**

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| **Suitable methods of extinction:** | Use extinguishing media such as water fog or water spray, dry chemical, carbon dioxide and foam. |
| **Unsuitable methods of extinction:** | None known. |
| **Special hazards arising from the substance or mixture:** | Closed containers may explode due to the buildup of pressure when exposed to extreme heat. During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent or may be delayed. Obtain medical attention. |
| **Explosion hazards:** | Material does not present an explosion hazard. |
| **Advice for firefighters:** | Full protective equipment including self-contained breathing apparatus should be used. Water may be used to cool closed containers to prevent pressure buildup and possible autoignition or explosion when exposed to extreme heat. If possible, firefighters should control runoff water to prevent environmental contamination. Fire residues and contaminated extinguishing water must be disposed of in accordance with local regulations. |

## SECTION 6. ACCIDENTAL RELEASE MEASURES

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| **Personal precautions, protective equipment and emergency procedures:** | Evacuate non-essential personnel. Remove all sources of ignition. Ventilate the area. Wear appropriate protective clothing and equipment designated in Section 8. Spilled material creates a slip hazard. |
| **Environmental precautions:** | Avoid dispersal of spilled material and prevent contact with soil and entry into drains, sewers or waterways. |
| **Methods and materials for containment and cleaning up:** | Cover drains and contain spill. Cover spill with non-combustible absorbent. Wipe or scrape up and contain for salvage or disposal. Clean area as appropriate since spilled material, even in small quantities, may present a slip hazard. Final cleaning may require use of steam or washing with detergents. Place saturated absorbent or cleaning materials into an approved container for proper disposal. Observe possible material restrictions (refer to Sections 7.2 and 10.5). Dispose of in accordance with national, state and local regulations. |
| **Reference to other sections:** | For indications about waste treatment, see Section 13. |

## SECTION 7. HANDLING AND STORAGE

**Precautions for safe handling:** Observe label precautions. Wear all appropriate protective equipment specified in Section 8. Do not get in eyes or on skin or clothing. If normal use of material presents a respiratory hazard, use only adequate ventilation or wear appropriate respiratory protection.

**Advice on protection against fire and explosion:** Product does not present a fire or explosion hazard.

**Conditions for safe storage, including any incompatibilities:** Keep containers tightly closed in cool, dry, well-ventilated storage areas. Transfer only to approved containers having correct labeling. Protect containers against physical damage. Keep containers tightly closed. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not reuse empty containers as they may retain product residues. Use appropriate containment to avoid environmental contamination. Ventilate closed areas. Do not take internally. Keep out of reach of children.

**Specific end uses:** Apart from the uses mentioned in Section 1.2, no other specific uses are stipulated.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters**

**Occupational Exposure Limits**

| CAS # | Ingredient | OSHA PEL - TWA | ACGIH TLV | NIOSH |
|---|---|---|---|---|
| 1344-09-8 | Sodium Silicate | 5 mg/m3 Respirable Fraction* 15 mg/m3 Total Dust | 10 mg/m3 Inhalable Particulate 3 mg/m3 Respirable Fraction | - |
| 1332-58-7 | Kaolin Clay | 15 mg/m3 (total dust) 5 mg/m3 (respirable fraction) | 2 mg/m3 (respirable fraction) | 10 mg/m3 (total dust) 5 mg/m3 (respirable fraction) |
| 13463-67-7 | Titanium Dioxide | 10 mg/m3 (total dust) 5 mg/m3 (respirable fraction) | 10 ppm (as dust) | - |
| 14808-60-7 | Crystalline Silica | 10 mg/m3 (respirable dust) 50 pg/m3 (respirable dust)** | 0.025 mg/m3 (respirable fraction) | 0.05 mg/m3 (respirable fraction) |

*Related to particles; otherwise not regulated

**PEL for construction applications

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**Exposure controls**

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| **Engineering Measures:** | Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. Use adequate ventilation. Local exhaust is preferable. Refer to section 7.1. |
| **Individual protection measures:** | Wear protective clothing to prevent repeated or prolonged contact with product. Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the representative supplier. |
| **Hygiene measures:** | Facilities storing or using this material should be equipped with an eyewash station and safety shower. Change contaminated clothing. Preventive skin protection is recommended. Wash hands thoroughly after use, before eating, drinking, smoking or using the lavatory. |
| **Eye/face protection:** | Wear protective goggles or safety glasses with unperforated side shields during use. Refer to 29 CFR 1910.133, ANSI Z87.1 or European Standard EN 166. It is recommended that contact lenses be removed before using this sealant. Do not handle lenses until all sealant has been cleaned from the fingertips, nails and cuticles. Residual sealant may remain on fingers for several days and transfer to lenses, causing severe eye irritation. |
| **Hand protection:** | Wear Nitrile rubber or Neoprene gloves or those recommended by glove supplier for protection against materials in Section 3. Gloves should be impermeable to chemicals and oil. Breakthrough time of selected gloves must be greater than the intended use period. |
| **Other protective equipment:** | Long sleeve shirts and trousers without cuffs; boots if the situation calls for them. |
| **Respiratory protection:** | None needed under ambient conditions with adequate local exhaust. Always use an approved respirator when vapors are generated. Where risk assessment shows air-purifying respirators are appropriate use a full-faced respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-faced supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).<br>NOTE: This material may contain materials classified as nuisance particulates (listed as "Dust") which may be present at hazardous levels only during sanding, abrading or removal of dried films. If no specific dusts are listed in Section 8, the applicable limits for unknown nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction). |
| **Environmental exposure controls:** | Do not empty into drains. |


**Safety Glasses**


**Gloves**

PPE must not be considered a long-term solution to exposure control. PPE usage must be accompanied by employer programs to properly select, maintain, clean, fit and use. Consult a competent industrial hygiene resource to determine hazard potential and/or the PPE manufacturers to ensure adequate protection.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

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| **Appearance:** | Opaque red paste. |
| **Odor:** | Mild. |
| **Odor threshold:** | No data available. |
| **Molecular weight:** | Not applicable. |
| **Chemical formula:** | Not applicable. |
| **pH:** | Not applicable. |
| **Freezing/melting point:** | No data available. |
| **Initial boiling point:** | No data available. |
| **Evaporation rate:** | No data available. |
| **Flammability (solid, gas):** | Slower than ether. |
| **Flash point:** | Not applicable. |
| **Auto-ignition temperature:** | No data available. |
| **Decomposition temperature:** | No data available. |
| **Viscosity:** | 1.76 - 1.81 |
| **Lower and upper explosive (flammable) limits:** | No data available. |
| **Vapor pressure:** | No data available. |
| **Vapor density:** | >1 (Air = 1) |
| **Specific gravity:** | 1.76 - 1.81 |
| **Solubility in water:** | No data available. |
| **Partition coefficient: noctanol/ water:** | Not determined. |
| **Oxidizing Properties:** | Not applicable. |
| **Explosive Properties:** | Not applicable. |
| **Volatiles by Weight @ 21 °F:** | 35 - 39% |
| **VOC Content by Volume:** | 0 g/l |
| **Other data:** | No data available. |

## SECTION 10. STABILITY AND REACTIVITY

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| **Reactivity:** | No special reactivity has been reported. |
| **Chemical stability:** | Stable under recommended storage conditions. |
| **Possibility of hazardous reactions:** | Hazardous polymerization does not occur. |
| **Conditions to avoid:** | High temperatures, incompatible materials. |
| **Incompatible materials:** | Acids, oxidizing agents, ammonium salts, chemically active metals. |
| **Hazardous decomposition products:** | Thermal decomposition products include silicone oxides. |

## SECTION 11. TOXICOLOGICAL INFORMATION

**Information on toxicological effects**

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| **Acute Oral Toxicity:** | Expected to have low acute oral toxicity. |
| **Acute inhalation toxicity:** | Expected to have low acute inhalation toxicity. |
| **Acute dermal toxicity:** | Expected to have low acute dermal toxicity. |
| **Skin irritation:** | May cause skin irritation. |
| **Eye irritation** | Causes serious eye irritation. |
| **Sensitization:** | No data available. |
| **Genotoxicity:** | No data available. |
| **Mutagenicity:** | No data available. |
| **Specific organ toxicity - single exposure:** | No data available. |

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| **Specific organ toxicity - repeated exposure** | No data available. |
| **Aspiration hazard:** | No data available. |
| **Further information:** | Titanium Dioxide: IARC Group 2B Carcinogen - Possibly carcinogenic to humans. Not listed as a carcinogen by ACGIH, OSHA or NTP. The IARC summary concluded, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium is bound to other materials such as paint".<br><br>Crystalline silica (quartz) is considered a hazard by inhalation and there may be a relationship between silicosis and certain cancers.<br><br>IARC Group 1 carcinogen - Carcinogenic to humans (listed under Crystalline Silica inhaled in the form of quartz or cristobalite from occupational sources. ACGIH A2 carcinogen - Suspected human carcinogen; NTP - Known carcinogen (select carcinogen); NIOSH - Potential occupational carcinogen. No data is available regarding the mutagenicity or teratogenicity of this product nor is there available data that indicates that it causes adverse developmental or fertility effects.<br><br>Handle in accordance with good industrial hygiene and safety practice. |

## SECTION 12. ECOLOGICAL INFORMATION

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| **Toxicity:** | The ecotoxicity of this product has not been evaluated. It is expected to have low toxicity to aquatic organisms with little impact on the aquatic environment based on its composition. |
| **Persistence and degradability:** | Organic materials in this product is expected to biodegrade over time. |
| **Bioaccumulative potential:** | Not expected to bioaccumulate. |
| **Mobility in soil:** | No data available. |
| **Results of PBT and vPvB assessment:** | No data available. |
| **Other adverse effects:** | Do not allow material to run into surface waters, wastewater or soil.<br>An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. |

## SECTION 13. DISPOSAL CONSIDERATIONS

**Waste treatment methods**

**Methods of disposal:** The generation of waste should be avoided or minimized whenever possible. Although this product is classified as non-hazardous under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261 this material and its container should be disposed of in a safe way as empty containers may contain product residue. Leave chemicals in original containers. No mixing with other waste. Handle unclean containers like the product itself. Incinerate in an approved facility. Do not incinerate closed container. Dispose of in accordance with the Directive 2008/98/EC as well as other national, federal, state/provincial and local laws and regulations.

**RCRA P-Series:** No listing.

**RCRA U-Series:** No listing.

## SECTION 14. TRANSPORT INFORMATION

Transportation information provided is for reference only. Customer is urged to consult 49 CFR 100 - 177, IMDG, IATA, EC, United Nations **TDG** and WHMIS (Canada) **TDG** information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

**NOT REGULATED FOR TRANSPORT**

## SECTION 15. REGULATORY INFORMATION

**Safety, health and environmental regulations/legislation specific for substance or mixture**
**U. S. Federal Regulations**

**OSHA Hazard Communication Standard:** This material is not classified as hazardous in accordance with OSHA 29 CFR 1910-1200.

**Toxic Substance Control Act (TSCA) Inventory:** All components of this product are listed or exempt from listing on the TSCA Inventory. This product is not subject to TSCA 12(b) Export Notification.

**Drug Enforcement Administration (DEA) List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.4(f)(2) and Chemical Code Number:** Nonelisted.

**Drug Enforcement Administration (DEA) Lists 1 & 2, Exempt Chemical Mixtures (21 CFR 1310.12(c)) and Code Number:** Nonelisted.

**Department of Homeland Security (DHS) Chemical Facility Anti-Terrorism Standards (CFATS) Chemicals:** Nonelisted.

**Superfund Amendments and Reauthorization Act (SARA)**

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| **SARA Section 311/312 Hazard Categories:** | Chronic Health Hazard |
| **SARA 313 Information:** | None of the components of this product are subject to the reporting requirements established by Section 313 of the Emergency Planning and Community Right-to Know Act of 1986. |
| **SARA 302/304 Extremely Hazardous Substance:** | None of the components of the product are subject to the reporting requirements of these sections of Title III of SARA. |
| **SARA 302/304 Emergency Planning & Notification:** | None of the components of the product are subject to the reporting requirements of these sections of Title III of SARA. |
| **Comprehensive Response Compensation and Liability Act (CERCLA):** | This product contains no CERCLA reportable substances. |
| **Clean Air Act (CAA):** | This product does not contain any substances listed as Hazardous Air Pollutants (HAPs) designated in CAA Section 112 (b).<br>This product does not contain any Class 1 Ozone depletors.<br>This product does not contain any Class 2 Ozone depletors. |
| **Clean Water Act (CWA):** | None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA.<br>None of the chemicals in this product are listed as Toxic Pollutants under the CWA. |

**U.S. State Regulations**

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| **California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986:** | This product contains chemical(s) known to the State of California to cause cancer and birth defects or other reproductive harm. |
| **Other U.S. State Inventories:** | Kaolin Clay (CAS#1332-58-7) is listed on the following State Hazardous Substance Inventories, Right-to-Know lists and/or Air Quality/Air Pollutants lists: ID, MN, NJ, PA, RI, WA.<br>Titanium Dioxide (CAS#113463-67-7) is listed on the following State Hazardous Substance Inventories, Right-to-Know lists and/or Air Quality/Air Pollutants lists: IL, MA, MN, NJ, PA, RI.<br>Crystalline silica (as quartz), contained at —0.1%, is listed on the following State Hazardous Substance Inventories, Right-to-Know lists and/or Air Quality/Air Pollutants lists: ID, MA, NJ, PA, RI, WA. |

**Canada**

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| **WHMIS Hazard Symbol and Classification:** | Uncontrolled product according to WHMIS classification criteria. |
| **Canadian National Pollutant Release Inventory (NPRI):** | None of the components of this product are listed on the **NPRI**. |

**European Economic Community**

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| **WGK, Germany (Water danger/ protection):** | 1 (low hazard to waters) |
| **Chemical safety assessment:** | For this product a chemical safety assessment was not carried out. |

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## SECTION 16. OTHER INFORMATION

**Hazardous Material Information System (HMIS)**

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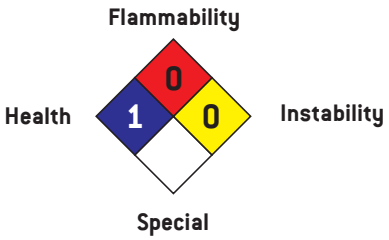
| Health • | 1 |
| Flammability | 0 |
| Physical hazards | 0 |
| Personal Protection | B |

**HMIS Hazard Rating Legend**
0 = Minimal 1 = Slight 2 = Moderate 3 = Serious
4 = Severe * = Chronic Health Hazard

**NFPA Hazard Rating Legend**
0 = Insignificant 1 = Slight 2 = Moderate
3 = High 4 = Extreme

**National Fire Protection Association (NFPA)**




**Abbreviation Key**

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|---|---|
| **ACGIH** | American Conference of Governmental Industrial Hygienists |
| **ADR** | Accord Dangereux Routier (European regulations concerning the international transport of dangerous goods by road) |
| **CAS** | Chemical Abstract Services |
| **CFR** | Code of Federal Regulations |
| **DOT** | Department of Transportation |
| **EMS-Guide** | Emergency Response Procedures for Ships Carrying Dangerous Goods |
| **EPA** | Environmental Protection Agency |
| **ERG** | Emergency Response Guide Book |
| **FDA** | Food and Drug Administration |
| **GHS** | Globally Harmonized System of Classification and Labelling of Chemicals (GHS) |
| **HCS** | Hazard Communication Standard |
| **IARC** | International Agency for Research on Cancer |
| **IATA** | International Air Transport Association half maximal |
| **ICAO** | International Civil Aviation Organization |
| **IDLH** | Immediately Dangerous to Life and Health |
| **IMDG** | International Maritime Dangerous Goods |
| **IMO** | International Maritime Organization |
| **mppcf** | Millions of Particles Per Cubic Foot |
| **NA** | North America |
| **NAERG** | North American Emergency Response Guide Book |
| **NIOSH** | National Institute for Occupational Safety |
| **NTP** | National Toxicology Program |
| **OSHA** | Occupational Safety and Health Administration |
| **PBT** | Persistent, Bioaccumulating and Toxic |
| **PEL** | Permissible exposure limit |
| **PMCC** | Pensky-Martens Closed Cup |
| **ppm** | Parts Per Million |
| **RCRA** | Resource Conservation and Recovery Act |
| **RID** | Dangerous Goods by Rail |
| **RQ** | Reportable Quantity |
| **TCC/Tag** | Tagliabue Closed Cup |
| **TLV** | Threshold Limit Value |
| **TSCA** | Toxic Substance Control Act |
| **TWA** | Time-weighted Average |
| **UN** | United Nations |
| **VOC** | Volatile Organic Compounds |
| **vPvB** | Very Persistent and Very Bioaccumulating |
| **WHMIS** | Workplace Hazardous Materials Information System |

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