# SAFETY DATA SHEET

## Section 1: COMPANY AND PRODUCT IDENTIFICATION

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| **Company Name** | Penguin Pottery LLC |
| **Address** | 193 A St, Unit 42, Wilder, VT 05088 |
| **Emergency Contact** | IN CASE OF EMERGENCY PLEASE CONTACT YOUR REGIONAL / LOCAL POISON CONTROL CENTER. 1-800-222-1222 |
| **Phone** | 603-200-3042 |
| **Email** | support@penguinpottery.com |
| **Website** | www.penguinpottery.com |
| **Product name** | Penguin Pottery - Gentoo Series - Cape Brown - Low Fire Glaze Cone 06-04 for Low Fire Clay - Ceramic Glaze Pottery (1 Pint \| 16 oz \| 473 ml) |
| **Product use/description** | Ceramic glaze |
| **Product Identifier Codes** | PP-GZ-L-1083-16OZ |
| **Restrictions on use** | Non-Cosmetic Use: Not for ingestion or use in cosmetics. Food-Contact Limitation: Do not use on food-contact surfaces unless it has been fired to maturity. Form Limitation: Intended for use only in liquid form as supplied. |
| **Regulatory Basis** | OSHA Hazard Communication Standard (29 CFR 1910.1200), GHS classification |

## Section 2: HAZARDS IDENTIFICATION

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| **Classification** | Classification according to OSHA Hazard Communication Standard (29 CFR 1910.1200) and GHS Rev. 3. Not classified as hazardous under GHS. This product has been evaluated under the Labeling of Hazardous Art Materials Act (LHAMA, 16 CFR 1500) in accordance with ASTM D-4236 by a board-certified toxicologist, who determined that the product requires no acute or chronic hazard labeling. |
| **Hazard statement** | No signal word, hazard pictogram, or hazard statement is required for this product. Under reasonably foreseeable conditions of use as sold, the product is unlikely to produce skin, eye, or respiratory irritation. Avoid eye contact as a matter of good practice; see Section 4 for first-aid measures. |
| **Signal word** | None required in current form. |
| **Precautionary statement** | Avoid eye contact. Wash hands after handling. Avoid generating dust from dried residue. Use local exhaust ventilation if spraying. |
| **Important Usage Instruction** | This product is intended for use only in liquid form as supplied. Do not intentionally dry, sand, grind, or otherwise process dried residue into airborne dust. If product begins to dry out, reconstitute with water before use. Airborne dust from dried residue may contain respirable crystalline silica and should be avoided. |
| **Pictogram(s) by GHS** | None |
| **Other Hazards** | No hazards otherwise classified. Under reasonably foreseeable conditions of manipulation or use of the product as sold, this product is unlikely to produce a chronic toxicity hazard, including skin, eye, or respiratory irritation. As a matter of good work practice, avoid generating airborne dust from dried residue and avoid inhaling mist from spray applications. |

## Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

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| **Trade Secret Notice** | Detailed formulation is proprietary information. The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret in accordance with 29 CFR 1910.1200(i). |

## Section 4: FIRST AID MEASURES

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| **On inhalation** | Move to fresh air if mist or spray causes irritation. Seek medical attention if symptoms persist. |
| **On skin contact** | Wash with soap and water. Remove contaminated clothing. |
| **On eye contact** | Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Get medical attention if irritation persists. |
| **On ingestion** | Rinse mouth. Do not induce vomiting. Get medical advice if unwell. |
| **Acute/delayed symptoms** | No acute or delayed symptoms are expected under reasonably foreseeable conditions of use of the product as sold. Chronic adverse health effects are unlikely except after long-term daily use, poor work practices, and poor hygiene. |
| **Medical advice** | Treat symptomatically. |
| **Special treatment needed** | None normally required. |

## Section 5: FIREFIGHTING MEASURES

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| **Suitable extinguishing media** | Product is not flammable. Use fire-extinguishing media appropriate for surrounding materials. Water spray, foam, dry chemical, CO2. |
| **Unsuitable extinguishing media** | None known |
| **Specific hazards arising from the chemical** | Product is water-based; not flammable. Combustion of organic components may produce CO, CO2. |
| **Protective equipment for firefighters** | Standard protective gear and SCBA if in enclosed space |
| **Special precautions for fire fighters** | Prevent runoff from entering drains or waterways |
| **Will hazardous combustion occur?** | No |

## Section 6: ACCIDENTAL RELEASE MEASURES

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| **Personal precautions** | Avoid inhalation of dust and contact with eyes. Use personal protective equipment as recommended in this section. Ensure adequate ventilation during cleanup. |
| **Environmental precautions** | Prevent significant releases into waterways |
| **Methods for cleaning up** | Contain and absorb with inert material. Collect into containers for disposal. Rinse area with water. Avoid creating dried dust during cleanup. |
| **Recommended personal protective equipment** | Gloves, safety glasses, and respiratory protection if dried dust is present. |

## Section 7: HANDLING AND STORAGE

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| **Safe handling** | This product is intended for use only in liquid form as supplied. Do not intentionally dry, sand, grind, or otherwise process dried residue into airborne dust. If product begins to dry out, reconstitute with water before use. Airborne dust from dried residue may contain respirable crystalline silica and should be avoided. Avoid eye contact. Use with adequate ventilation if spraying. Avoid drying residue on surfaces. |
| **Safe storage** | Keep container tightly closed. Store in cool, dry location. Protect from freezing and excessive heat. |
| **Known incompatibilities** | Strong acids/bases, strong oxidizers |

## Section 8: EXPOSURE CONTROL AND PERSONAL PROTECTION

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| **Engineer Control** | Ensure adequate ventilation when spraying. Occupational exposure limits for respirable crystalline silica: OSHA PEL 50 µg/m³ TWA, ACGIH TLV 25 µg/m³ TWA, NIOSH REL 50 µg/m³ TWA. |
| **Respiratory Protection** | Use local exhaust ventilation to control airborne mist or dust. Respiratory protection recommended if airborne dust or mist exceeds exposure limits for nuisance dust or crystalline silica (OSHA PEL). |
| **Protective Gloves** | Gloves are not required but can help prevent dry skin |
| **Protective Glasses** | Appropriate eye protection or safety glasses to keep mist out of eyes if spray application is used |

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

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| **Physical state/appearance** | Liquid slurry |
| **Color** | Varies by glaze |
| **Odor** | Slight / none |
| **Odor threshold** | Not determined |
| **pH** | 7-9 (typical) |
| **Boiling point/range** | >100°C (>212°F) |
| **Freezing point/range** | 0°C (32°F) |
| **Flash point** | Not applicable |
| **Evaporation rate** | Not determined |
| **Vapor density** | Not determined |
| **Solubility(ies)** | Dispersible in water |
| **Vapor pressure** | Not determined |
| **Relative density** | 1.4-1.7 (typical) |
| **Viscosity** | Not determined |
| **Partition coefficient (n-octanol/water)** | Not determined |
| **Explosive properties** | None |
| **Flammability (solid, gas)** | Not applicable |
| **Flammability limit in air (upper/lower)** | Not determined |
| **Autoignition temperature** | Not determined |
| **Decomposition temperature** | Not determined |

## Section 10: STABILITY AND REACTIVITY

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| **Chemical stability** | Stable under normal conditions |
| **Conditions to avoid** | Freezing, excessive heat |
| **Incompatible materials** | Strong acids/bases, strong oxidizers |
| **Hazardous decomposition products** | CO, CO2 from organics |
| **Possibility of hazardous reactions** | None known |
| **Reactivity** | Non-reactive under normal use |
| **Hazardous polymerization** | Will not occur |

## Section 11: TOXICOLOGICAL INFORMATION

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| **Information on likely routes of exposure** | Eye contact, skin contact, inhalation of mist during spraying. |
| **Eye contact - serious eye damage or irritation** | May cause mild irritation. |

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| **Skin contact - skin corrosion, sensitization or irritation** | May cause mild irritation on prolonged contact |
| **Ingestion - carcinogenicity/aspiration hazard** | Low toxicity; ingestion may cause gastrointestinal discomfort |
| **Inhalation - respiratory sensitization/toxicity** | Mist may cause mild irritation; dried dust may cause chronic lung effects if inhaled over prolonged periods |
| **Symptoms related to the physical chemical and toxicological characteristics** | No symptoms are expected under reasonably foreseeable conditions of use of the product as sold. Transient irritation may occur from direct eye contact or from inhaling mist during spray application; use adequate ventilation when spraying and avoid generating airborne dust from dried residue as a matter of good work practice. |
| **Information on toxicological effects** | No acute or chronic toxicological effects are expected from use of the product as sold. A LHAMA toxicological risk assessment performed in accordance with ASTM D-4236 concluded that the product is unlikely to produce a chronic toxicity hazard, including skin, eye, or respiratory irritation. |
| **Delayed or immediate effects** | Under reasonably foreseeable conditions of manipulation or use of the product as sold, no delayed or immediate adverse health effects are expected. Chronic adverse health effects are unlikely except after long-term daily use, poor work practices, and poor hygiene. |
| **Germ cell mutagenicity** | No data available |
| **Specific target organ toxicity (single exposure)** | No data available |
| **Specific target organ toxicity (repeated exposure)** | No data available |
| **Chemicals listed on NTP, IARC or OSHA as a carcinogen** | Some components are listed by regulatory agencies as carcinogens; however, a LHAMA toxicological risk assessment performed in accordance with ASTM D-4236 determined that these components do not pose a cancer risk as formulated in this product. |
| **Additional information** | These water-based, premixed products are non-toxic during recommended use. As with any silica-containing material, do not process dried residue into airborne dust, and avoid prolonged inhalation of respirable dust as a matter of good work practice. |

## Section 12: ECOLOGICAL INFORMATION (NON-MANDATORY)

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| **Ecotoxicity** | No components are expected to be acutely hazardous to aquatic life at use concentrations. |
| **Persistence and degradability** | Inorganic components are stable |
| **Bioaccumulative potential** | Low |
| **Mobility in soil** | Limited mobility; settles in sediment |
| **Other adverse effects** | Avoid uncontrolled releases |

## Section 13: DISPOSAL CONSIDERATIONS (NON-MANDATORY)

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| **Disposal instructions** | Dispose of in accordance with local, regional, and national regulations. |
| **Local disposal regulations** | Follow municipal waste disposal guidelines |
| **Hazardous waste code** | Not applicable. |
| **Contaminated packaging** | Empty containers may contain residue; rinse before disposal or recycling. |
| **Waste residues** | Collect and dispose of non-hazardous waste unless contaminated. |

## Section 14: TRANSPORTATION INFORMATION (NON-MANDATORY)

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| **UN/ID number (DOT)** | Not regulated |
| **UN/ID number (IMDG)** | Not regulated |
| **UN/ID number (IATA)** | Not regulated |
| **Proper shipping name** | Not applicable |

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|---|---|
| **Transport hazard class (DOT)** | N/A |
| **Transport hazard class (IMDG)** | N/A |
| **Transport hazard class (IATA)** | N/A |
| **Packing group (DOT)** | N/A |
| **Packing group (IMDG)** | N/A |
| **Packing group (IATA)** | N/A |
| **Environmental provisions** | No data |
| **Special precautions** | None |
| **Transport in bulk according to Annex II of MARPOL 73/78 and IBC Code** | No data |
| **Emergency Response Guide Number** | No data |
| **Pictograms (US)** | None |
| **Pictograms (IATA)** | None |
| **Pictograms (IMDG: Marine Pollutant)** | None |

## Section 15: REGULATORY INFORMATION (NON-MANDATORY)

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| **TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)** | All components are listed or exempt |
| **CERCLA (Superfund) reportable quantity (lbs.) (40 CFR 302.4)** | Not regulated |
| **OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)** | No component of this product is present in a form or concentration that triggers an OSHA specifically regulated substance standard (29 CFR 1910.1001-1050) for the product as supplied. |
| **Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A)** | Not regulated |
| **SARA 304 Emergency release notification** | Not regulated |
| **SARA 311/312 (40 CFR 370) Hazardous Chemical** | Not a hazardous chemical under SARA 311/312 (40 CFR 370). No acute or chronic hazard categories apply to the product as supplied. |
| **SARA 313 (TRI reporting)** | No reportable ingredients |
| **Drug Enforcement Administration (DEA) (21 CFR 1308.11-15)** | Not regulated |
| **Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List** | Not regulated |
| **Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)** | Not regulated |
| **Safe Drinking Water Act (SDWA)** | Not regulated |
| **Canadian Domestic Substances List (DSL)** | Not regulated |
| **TSCA** | This product is manufactured in compliance with all provisions of the Toxic Substances Control Act, 15 U.S.C. 2601 et. Seq. |
| **FDA** | 21 CFR 175.105 |
| **SARA/Title III** | This product does not contain any substances at or above the reported threshold under Section 313, based on available data. |

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| **Conforms to ASTM D-4236** | Conforms to ASTM D-4236. The formulation of this product has been reviewed by a board-certified toxicologist in accordance with ASTM D-4236 and the Labeling of Hazardous Art Materials Act (LHAMA, 16 CFR 1500), who determined that no acute or chronic health hazard labeling is required. The evaluation is on file with the producer and is available to the U.S. Consumer Product Safety Commission upon request. |
| **California Proposition 65 Warning** | No California Proposition 65 warning is required for this product. The Proposition 65 listing for crystalline silica applies to airborne particles of respirable size, which this water-borne liquid product does not generate as supplied and used as directed. |
| **HMIS III Rating** | Health=1, Flammability=0, Reactivity=0 |

## Section 16: OTHER INFORMATION

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| **Usage Warning** | This product is intended for use only in liquid form as supplied. Do not intentionally dry, sand, grind, or otherwise process dried residue into airborne dust. If product begins to dry out, reconstitute with water before use. Airborne dust from dried residue may contain respirable crystalline silica and should be avoided. |
| **Disclaimer** | Prepared according to OSHA HCS 2012. The recommendations and information contained in this SDS are compiled from sources believed to represent the most current information available when the SDS was prepared. However, the manufacturer / distributor of this product does not provide any warranty, guarantee of representation as to the correctness or sufficiency of this information. If this material is used in large amounts and/or an unusual manner, the user is obliged to determine what safety measures are appropriate, including the applicable and relevant workplace and environmental regulations pertaining to handling, use and disposal. |
| **Abbreviation: ACGIH** | American Conference of Governmental Industrial Hygienists |
| **Abbreviation: ASTM** | American Society for Testing and Materials |
| **Abbreviation: CAS** | Chemical Abstract Service |
| **Abbreviation: CFR** | Code of Federal Regulations |
| **Abbreviation: DOT** | Department of Transportation |
| **Abbreviation: GHS** | Globally Harmonized System of Classification and Labelling of Chemicals |
| **Abbreviation: HMIS** | Hazardous Materials Identification System |
| **Abbreviation: IARC** | International Agency for Research on Cancer |
| **Abbreviation: NTP** | National Toxicology Program |
| **Abbreviation: OSHA** | Occupational Safety and Health Administration |
| **Abbreviation: PEL** | Permissible Exposure Limit (set by OSHA) |
| **Abbreviation: SDS** | Safety Data Sheet |
| **Abbreviation: TSCA** | Toxic Substances Control Act |
| **Abbreviation: TWA** | Time-Weighted Average (typically over 8 hours) |
| **Date Created** | 2024-01-01 |
| **Date Updated** | 2026-08-03 |