

## SAFETY DATA SHEET

31548-0156

**Section 1: COMPANY AND PRODUCT IDENTIFICATION**

<b>Company Name</b>	Penguin Pottery LLC
<b>Address</b>	193 A St, Unit 42, Wilder, VT 05088
<b>Emergency Contact</b>	IN CASE OF EMERGENCY PLEASE CONTACT YOUR REGIONAL / LOCAL POISON CONTROL CENTER. 1-800-222-1222
<b>Phone</b>	603-200-3042
<b>Email</b>	support@penguinpottery.com
<b>Website</b>	www.penguinpottery.com
<b>Product name</b>	Penguin Pottery Glazes - CMC Gum Solution - Add to Ceramic Glazes to Improve Brushability - 16oz
<b>Product use/description</b>	Add to Ceramic Glazes to Improve Brushability
<b>Product Identifier Codes</b>	PP-CH-GUMSOL
<b>Restrictions on use</b>	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.
<b>Regulatory Basis</b>	OSHA Hazard Communication Standard (29 CFR 1910.1200), GHS classification

**Section 2: HAZARDS IDENTIFICATION**

<b>Classification</b>	Classification according to OSHA Hazard Communication Standard (29 CFR 1910.1200) and GHS Rev. 3. Not classified as hazardous under GHS based on available data for components in liquid form. Dried residue may contain respirable crystalline silica which is classified under GHS as Carcinogen Category 1A by inhalation.
<b>Hazard statement</b>	No signal word or pictograms required. May cause eye irritation.
<b>Signal word</b>	None required in current form.
<b>Precautionary statement</b>	Avoid eye contact. Wash hands after handling. Avoid generating dust from dried residue. Use local exhaust ventilation if spraying.
<b>Important Usage Instruction</b>	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.
<b>Pictogram(s) by GHS</b>	None
<b>Other Hazards</b>	Dried dust may contain respirable crystalline silica which is classified as a carcinogen by inhalation. This hazard does not apply to the liquid product as supplied. Avoid inhaling dried glaze dust or mist from spray applications.

**Section 3: COMPOSITION / INFORMATION ON INGREDIENTS**

<b>Trade Secret Notice</b>	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).
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**Section 4: FIRST AID MEASURES**

<b>On inhalation</b>	Move to fresh air if mist or spray causes irritation. Seek medical attention if symptoms persist.
<b>On skin contact</b>	Wash with soap and water. Remove contaminated clothing.
<b>On eye contact</b>	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Get medical attention if irritation persists.
<b>On ingestion</b>	Rinse mouth. Do not induce vomiting. Get medical advice if unwell.
<b>Acute/delayed symptoms</b>	Chronic inhalation of respirable crystalline silica dust (from dried residue) may cause silicosis and lung cancer. This hazard does not apply to the liquid product as supplied.
<b>Medical advice</b>	Treat symptomatically.
<b>Special treatment needed</b>	None normally required.

**Section 5: FIREFIGHTING MEASURES**

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

**Section 6: ACCIDENTAL RELEASE MEASURES**

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

**Section 7: HANDLING AND STORAGE**

<b>Safe handling</b>	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.
<b>Safe storage</b>	Keep container tightly closed. Store in cool, dry location. Protect from freezing and excessive heat.
<b>Known incompatibilities</b>	Strong acids/bases, strong oxidizers

**Section 8: EXPOSURE CONTROL AND PERSONAL PROTECTION**

<b>Engineer Control</b>	Ensure adequate ventilation when spraying
<b>Respiratory Protection</b>	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).
<b>Protective Gloves</b>	Gloves are not required but can help prevent dry skin
<b>Protective Glasses</b>	Appropriate eye protection or safety glasses to keep mist out of eyes if spray application is used

**Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

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

**Section 10: STABILITY AND REACTIVITY**

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

<b>Section 11: TOXICOLOGICAL INFORMATION</b>	
<b>Information on likely routes of exposure</b>	Eye contact, skin contact, inhalation of mist during spraying.
<b>Eye contact - serious eye damage or irritation</b>	May cause mild irritation.
<b>Skin contact - skin corrosion, sensitization or irritation</b>	May cause mild irritation on prolonged contact
<b>Ingestion - carcinogenicity/aspiration hazard</b>	Low toxicity; ingestion may cause gastrointestinal discomfort
<b>Inhalation - respiratory sensitization/toxicity</b>	Mist may cause mild irritation; dried dust may cause chronic lung effects if inhaled over prolonged periods
<b>Symptoms related to the physical chemical and toxicological characteristics</b>	Eye irritation; respiratory irritation from mist; coughing; in cases of long-term exposure to dried dust, risk of silicosis
<b>Information on toxicological effects</b>	No acute toxicological effects known for the liquid mixture. For effects of chronic exposure to dried residue, see 'Delayed or immediate effects' regarding respirable crystalline silica.
<b>Delayed or immediate effects</b>	Chronic exposure to respirable crystalline silica dust (from dried residue) may cause lung disease. This hazard does not apply to the liquid product as supplied.
<b>Germ cell mutagenicity</b>	No data available
<b>Specific target organ toxicity (single exposure)</b>	No data available
<b>Specific target organ toxicity (repeated exposure)</b>	No data available
<b>Chemicals listed on NTP, IARC or OSHA as a carcinogen</b>	Respirable crystalline silica (quartz) is listed by IARC and NTP as carcinogenic by inhalation. This hazard does not apply to the liquid product as supplied.
<b>Additional information</b>	These mixtures contain silica. Extensive inhalation during a prolonged period of time is the route of entry into the body that can lead to the development of silicosis. These water-based, premixed products are non-toxic during recommended use.

<b>Section 12: ECOLOGICAL INFORMATION (NON-MANDATORY)</b>	
<b>Ecotoxicity</b>	No components are expected to be acutely hazardous to aquatic life at use concentrations.
<b>Persistence and degradability</b>	Inorganic components are stable
<b>Bioaccumulative potential</b>	Low
<b>Mobility in soil</b>	Limited mobility; settles in sediment
<b>Other adverse effects</b>	Avoid uncontrolled releases

<b>Section 13: DISPOSAL CONSIDERATIONS (NON-MANDATORY)</b>	
<b>Disposal instructions</b>	Dispose of in accordance with local, regional, and national regulations.
<b>Local disposal regulations</b>	Follow municipal waste disposal guidelines
<b>Hazardous waste code</b>	Not applicable.
<b>Contaminated packaging</b>	Empty containers may contain residue; rinse before disposal or recycling.
<b>Waste residues</b>	Collect and dispose of non-hazardous waste unless contaminated.

<b>Section 14: TRANSPORTATION INFORMATION (NON-MANDATORY)</b>	
<b>UN/ID number (DOT)</b>	Not regulated
<b>UN/ID number (IMDG)</b>	Not regulated
<b>UN/ID number (IATA)</b>	Not regulated
<b>Proper shipping name</b>	Not applicable
<b>Transport hazard class (DOT)</b>	N/A
<b>Transport hazard class (IMDG)</b>	N/A
<b>Transport hazard class (IATA)</b>	N/A
<b>Packing group (DOT)</b>	N/A
<b>Packing group (IMDG)</b>	N/A
<b>Packing group (IATA)</b>	N/A
<b>Environmental provisions</b>	No data
<b>Special precautions</b>	None
<b>Transport in bulk according to Annex II of MARPOL 73/78 and IBC Code</b>	No data
<b>Emergency Response Guide Number</b>	No data
<b>Pictograms (US)</b>	None
<b>Pictograms (IATA)</b>	None
<b>Pictograms (IMDG: Marine Pollutant)</b>	None

<b>Section 15: REGULATORY INFORMATION (NON-MANDATORY)</b>	
<b>TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)</b>	All components are listed or exempt
<b>CERCLA (Superfund) reportable quantity (lbs.) (40 CFR 302.4)</b>	Not regulated
<b>OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)</b>	Respirable crystalline silica (quartz) is listed as a carcinogen by inhalation. This hazard does not apply to the liquid product as supplied.
<b>Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A)</b>	Not regulated
<b>SARA 304 Emergency release notification</b>	Not regulated
<b>SARA 311/312 (40 CFR 370) Hazardous Chemical</b>	No acute hazard; chronic hazard (carcinogenicity) applies only to airborne dust from dried residue. This hazard does not apply to the liquid product as supplied.
<b>SARA 313 (TRI reporting)</b>	No reportable ingredients
<b>Drug Enforcement Administration (DEA) (21 CFR 1308.11-15)</b>	Not regulated
<b>Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List</b>	Not regulated
<b>Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)</b>	Not regulated
<b>Safe Drinking Water Act (SDWA)</b>	Not regulated
<b>Canadian Domestic Substances List (DSL)</b>	Not regulated
<b>TSCA</b>	This product is manufactured in compliance with all provisions of the Toxic Substances Control Act, 15 U.S.C. 2601 et. Seq.
<b>FDA</b>	21 CFR 175.105
<b>SARA/Title III</b>	This product does not contain any substances at or above the reported threshold under Section 313, based on available data.
<b>Conforms to ASTM D-4236</b>	This product has been evaluated by a toxicologist and is non-toxic in its supplied liquid form. In accordance with LHAMA, chronic hazard warnings for crystalline silica (quartz) are provided for the product in its dried state.
<b>California Proposition 65 Warning</b>	WARNING: This product, when dried and processed into airborne dust, can expose you to Crystalline Silica (Quartz), which is known to the State of California to cause cancer. For more information, go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> . This hazard does not apply to the liquid product as supplied.
<b>HMIS III Rating</b>	Health=1, Flammability=0, Reactivity=0

<b>Section 16: OTHER INFORMATION</b>	
<b>Usage Warning</b>	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.
<b>Disclaimer</b>	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.
<b>Abbreviation: ACGIH</b>	American Conference of Governmental Industrial Hygienists
<b>Abbreviation: ASTM</b>	American Society for Testing and Materials
<b>Abbreviation: CAS</b>	Chemical Abstract Service
<b>Abbreviation: CFR</b>	Code of Federal Regulations
<b>Abbreviation: DOT</b>	Department of Transportation
<b>Abbreviation: GHS</b>	Globally Harmonized System of Classification and Labelling of Chemicals
<b>Abbreviation: HMIS</b>	Hazardous Materials Identification System
<b>Abbreviation: IARC</b>	International Agency for Research on Cancer
<b>Abbreviation: NTP</b>	National Toxicology Program
<b>Abbreviation: OSHA</b>	Occupational Safety and Health Administration
<b>Abbreviation: PEL</b>	Permissible Exposure Limit (set by OSHA)
<b>Abbreviation: SDS</b>	Safety Data Sheet
<b>Abbreviation: TSCA</b>	Toxic Substances Control Act
<b>Abbreviation: TWA</b>	Time-Weighted Average (typically over 8 hours)
<b>Date Created</b>	2024-01-01
<b>Date Updated</b>	2026-05-05