SAFETY DATA SHEET

31548-0101

Section 1: COMPANY AND PRODUCT IDENTIFICATION

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 - DrainSaver - Separates Clay and Glaze Particles from Dirty Water - Prevents Costly Plumbing Repairs - 1 lb
Product use/description	DrainSaver separates clay and glaze particles from clay water.
Product Identifier Codes	PP-CH-DSAVER-1LB
Restrictions on use	Not for ingestion or use in cosmetics; do not use on food-contact surfaces unless fired to maturity.
Regulatory Basis	OSHA Hazard Communication Standard (29 CFR 1910.1200), GHS classification

Section 2: HAZARDS IDENTIFICATION

Classification	Classification according to OSHA Hazard Communication Standard (29 CFR 1910.1200) and GHS Rev. 3: Serious Eye Damage, Category 1 (Eye Dam. 1). Specific Target Organ Toxicity, Single Exposure (STOT SE), Category 3 (Respiratory Tract Irritation).
Hazard statement	H318: Causes serious eye damage. H335: May cause respiratory irritation.
Signal word	Danger
Precautionary statement	P260: Do not breathe dust. P264: Wash hands thoroughly after handling. P271: Use only outdoors or in a well-ventilated area. P280: Wear eye protection/face protection and protective gloves. P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310: Immediately call a POISON CENTER or doctor. P312: Call a POISON CENTER or doctor if you feel unwell. P501: Dispose of contents/container in accordance with local regulations.
Pictogram(s) by GHS	GHS05 (Corrosion), GHS07 (Exclamation Mark) 
Other Hazards	The primary hazard is contact of the dry powder or dust with eyes, which can cause serious irreversible damage. Inhalation of dust causes respiratory tract irritation. When dissolved in water, the resulting solution is mildly acidic (pH 3-4) due to hydrolysis. Dust may be generated from dried, uncleaned spills. No chronic inhalation disease (e.g., silicosis, lung cancer) hazard is associated with this product.

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Trade Secret Notice	This product contains aluminum sulfate as the active ingredient. The composition is listed below.

Section 4: FIRST AID MEASURES	
On inhalation	Move person to fresh air and keep comfortable for breathing. If coughing, sneezing, or shortness of breath persists, seek medical advice/attention.
On skin contact	Brush off loose powder. Wash affected area thoroughly with soap and water. Get medical attention if irritation develops and persists.
On eye contact	Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Remove contact lenses if present and easy to do. Continue rinsing. Get immediate medical advice/attention.
On ingestion	Rinse mouth with water. Do not induce vomiting. Call a poison center or get medical advice/attention if you feel unwell.
Acute/delayed symptoms	Immediate effects include serious eye damage and respiratory tract irritation. No significant delayed or chronic health effects are anticipated from normal use with appropriate PPE. Aluminum sulfate is not classified as a carcinogen or reproductive toxicant.
Special treatment needed	For significant eye contact, immediate medical attention is required. For inhalation exposure, treat symptomatically. If respiratory symptoms are severe or persistent, seek medical attention.

Section 5: FIREFIGHTING MEASURES	
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 a dry inorganic powder; not flammable. At high temperatures (>770°C), decomposes to aluminum oxide (Al_2O_3) and sulfur trioxide (SO_3).
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	
Personal precautions	Ensure adequate ventilation. Evacuate unnecessary personnel from the area. Wear the personal protective equipment specified in Section 8 of this SDS (including an N95 respirator, safety glasses/goggles, and gloves) before initiating cleanup. Avoid any action that creates airborne dust.
Environmental precautions	Do not allow large quantities of powder to enter drains or waterways.
Methods for cleaning up	Contain the spill to prevent it from spreading. Clean up spills promptly using a method that does not generate airborne dust. Do not dry sweep. Recommended cleanup methods: Wet Method: Gently mist the spilled powder with water to dampen it. Once dampened, scoop or wipe up the material and place it in a sealed container for disposal. HEPA Vacuum: Use an industrial vacuum cleaner equipped with a HEPA filter to collect the spilled material. Place recovered material into a properly labeled, sealed container for disposal according to local regulations.

Section 7: HANDLING AND STORAGE	
Safe handling	Read this entire SDS and understand all hazards before handling the product. Handle the dry powders only in a well-ventilated area, preferably with local exhaust ventilation. Avoid creating airborne dust. When mixing, slowly and gently add the powder to the liquid to minimize dusting. Wear the personal protective equipment (PPE) as specified in Section 8, including a respirator, eye protection, and gloves. After application, do not sand, scrape, or grind the dried or fired glaze, as this can release hazardous respirable dust containing crystalline silica. Wash hands thoroughly after handling. Do not eat, drink, or smoke in the work area.
Safe storage	Store in a cool, dry, well-ventilated location away from children and pets. Keep containers tightly closed when not in use. Protect the liquid medium from freezing. Store away from incompatible materials such as strong acids, bases, and oxidizing agents.

Section 8: EXPOSURE CONTROL AND PERSONAL PROTECTION	
Engineer Control	OSHA Permissible Exposure Limit (PEL) for aluminum compounds (as Al): 2 mg/m³ (respirable fraction, 8-hour TWA); 5 mg/m³ (total dust, 8-hour TWA). ACGIH TLV: 1 mg/m³ (respirable fraction). Handle dry powder only in a well-ventilated area. Whenever possible, use local exhaust ventilation to capture dust at the source. Ensure work surfaces are easy to clean.
Respiratory Protection	A NIOSH-approved particulate respirator (e.g., an N95, N100, or P100 series) is REQUIRED when handling, weighing, or mixing the dry powders. Ensure the respirator is properly fitted and used in accordance with the manufacturer's instructions.
Protective Gloves	Gloves (e.g., nitrile or latex) are recommended to prevent skin contact and for good hygiene.
Protective Glasses	Safety glasses with side shields or, preferably, safety goggles are REQUIRED when handling the dry powders to prevent eye contact with airborne dust.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES	
Physical state/appearance	Fine, dry powder mixture.
Color	Off-white
Odor	Slight / none
Odor threshold	Not applicable
Boiling point/range	Not applicable
Freezing point/range	Not applicable
Flash point	Not applicable (inorganic material, not combustible)
Solubility(ies)	Soluble in water (~31 g/100 mL at 0°C; ~89 g/100 mL at 100°C); aqueous solution is mildly acidic (pH 3-4)
Explosive properties	None
Flammability (solid, gas)	Not flammable
Vapor pressure	Not applicable
Vapor density	Not applicable
Relative density	Approx. 2.71 (water = 1)
Decomposition temperature	Decomposes at approximately 770°C, releasing sulfur trioxide (SO_3) and aluminum oxide (Al_2O_3)
Viscosity	Not applicable (dry powder)

Section 10: STABILITY AND REACTIVITY	
Chemical stability	Stable under normal conditions, storage and transport.
Conditions to avoid	Generation of dust.
Incompatible materials	Strong acids/bases, strong oxidizers
Hazardous decomposition products	None expected under normal conditions. At high temperatures (>770°C), decomposes to aluminum oxide (Al_2O_3) and sulfur trioxide (SO_3).
Possibility of hazardous reactions	None known
Reactivity	Not reactive under normal conditions. Reacts with strong bases to form aluminum hydroxide precipitate. Aqueous solution is mildly acidic due to hydrolysis. May be corrosive to some metals.

Section 11: TOXICOLOGICAL INFORMATION	
Information on likely routes of exposure	The primary routes of exposure are inhalation of dust and eye contact. Skin contact and ingestion are secondary routes.
Eye contact - serious eye damage or irritation	Causes serious eye damage (Category 1, H318). Direct contact with dry powder or dust can cause irreversible corneal damage and severe inflammation. Immediate flushing with water for at least 15 minutes is critical. Seek immediate medical attention.
Skin contact - skin corrosion, sensitization or irritation	Not classified. May cause mechanical irritation or dryness from prolonged contact.
Ingestion - carcinogenicity/aspiration hazard	Not classified. Considered to have low acute toxicity (LD50 Rat > 2000 mg/kg)
Inhalation - respiratory sensitization/toxicity	Acute exposure to dust may cause respiratory tract irritation, coughing, and sneezing (STOT SE Category 3, H335). Aluminum sulfate is not classified as a respiratory sensitizer or carcinogen. No chronic lung disease (e.g., silicosis) hazard is associated with this product.
Symptoms related to the physical chemical and toxicological characteristics	Serious eye damage upon contact with dry powder or dust; respiratory tract irritation (coughing, sneezing) from dust inhalation; gastrointestinal irritation if ingested.
Delayed or immediate effects	Immediate (Acute) Effects: Serious irreversible eye damage and respiratory tract irritation upon exposure to airborne dust. Delayed (Chronic) Effects: Aluminum sulfate is not classified as a carcinogen, mutagen, or reproductive toxicant. Prolonged high-level dust exposure may cause bronchial irritation. In individuals with severely impaired kidney function, chronic aluminum accumulation may cause neurotoxicity and bone disease, but this is not anticipated from normal occupational use.
Germ cell mutagenicity	Not classified
Chemicals listed on NTP, IARC or OSHA as a carcinogen	Aluminum sulfate (CAS 10043-01-3) is not listed by IARC, NTP, or OSHA as a carcinogen. No components of this product are listed as carcinogens.
Additional information	Aluminum sulfate is not classified as a carcinogen by any major regulatory authority (IARC, NTP, OSHA). Mutagenicity testing (Ames test, mammalian cell mutation assay, micronucleus assay) has returned negative results. The primary hazards are serious eye damage from direct contact and respiratory tract irritation from dust inhalation.

Section 12: ECOLOGICAL INFORMATION (NON-MANDATORY)	
Ecotoxicity	The mineral components of this product are not expected to be hazardous to the aquatic environment. Large releases may increase the turbidity (cloudiness) of waterways.
Persistence and degradability	The inorganic components are stable and are not biodegradable.
Bioaccumulative potential	Low
Mobility in soil	This material has limited mobility in soil. In water, the powder components will settle as sediment.
Other adverse effects	Avoid uncontrolled releases

Section 13: DISPOSAL CONSIDERATIONS (NON-MANDATORY)	
Disposal instructions	The user is responsible for proper disposal. Dispose of unused dry powder and empty containers in accordance with all applicable local, state, and federal regulations. Aluminum sulfate is not classified as a hazardous waste under U.S. RCRA regulations (40 CFR 261). Do not allow large quantities to enter drains or waterways.
Local disposal regulations	Follow municipal waste disposal guidelines
Hazardous waste code	This product, as supplied, is not considered a hazardous waste under U.S. RCRA regulations (40 CFR 261). However, disposal regulations may vary by location.
Contaminated packaging	Ensure containers are completely empty before recycling or disposal. Powder residue in empty containers should be handled with the same precautions as the bulk product.
Waste residues	Collect and dispose of non-hazardous waste unless contaminated.

Section 14: TRANSPORTATION INFORMATION (NON-MANDATORY)	
UN/ID number (DOT)	Not regulated
UN/ID number (IMDG)	Not regulated
UN/ID number (IATA)	Not regulated
Proper shipping name	Not applicable
Transport hazard class (DOT)	Not applicable
Transport hazard class (IMDG)	Not applicable
Transport hazard class (IATA)	Not applicable
Packing group (DOT)	Not applicable
Packing group (IMDG)	Not applicable
Packing group (IATA)	Not applicable
Environmental provisions	Not applicable
Special precautions	Ensure containers are sealed to prevent dust release during transport.

Section 15: REGULATORY INFORMATION (NON-MANDATORY)	
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)	This product is considered a 'Hazardous Chemical' under the OSHA Hazard Communication Standard (29 CFR 1910.1200) due to its classification as Serious Eye Damage Category 1 (H318) and STOT SE Category 3 (H335). No components are subject to OSHA specifically regulated substance standards (29 CFR 1910.1001-1050). Aluminum sulfate is not subject to the OSHA Respirable Crystalline Silica standard (29 CFR 1910.1053).
TSCA	All components are listed on the TSCA Inventory or are exempt.
SARA Title III: Section 302 (EHS)	No components listed.
SARA 311/312 (40 CFR 370) Hazardous Chemical	Immediate (Acute) Health Hazard: Yes (Serious Eye Damage, Respiratory Tract Irritation). Delayed (Chronic) Health Hazard: No.
SARA 313 (TRI reporting)	No components are subject to reporting thresholds.
CERCLA (Superfund) reportable quantity (lbs.) (40 CFR 302.4)	No components listed with an RQ.
California Proposition 65 Warning	This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm. No Proposition 65 warning is required.
State Right-to-Know	Aluminum Sulfate (CAS 10043-01-3) may be listed on various state right-to-know lists (e.g., Pennsylvania, New Jersey, Massachusetts). Check applicable state regulations for reporting requirements.

Section 16: OTHER INFORMATION	
Disclaimer	This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety, and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. Penguin Pottery assumes no liability for injury to the vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in this data sheet. Furthermore, Penguin Pottery assumes no liability for injury to the vendee or third persons proximately caused by abnormal use of the material, even if reasonable safety procedures are followed. All buyers/users assume all risks associated with the use of the material.
Date Created	23-Oct-25
Date Updated	2026-04-07
HMIS III Rating	Health: 3 (3 = Serious Hazard), Flammability: 0, Physical Hazard: 0, Personal Protection: B (Safety goggles or face shield, gloves)