



MATERIAL SAFETY DATA SHEET

SECTION I – PRODUCT AND COMPANY IDENTIFICATION

The Earth Pigments Company, LLC

PO Box 1172
Cortaro, AZ 85652
Phone: 520-682-8928

Product Name: **"MINERAL" BLUE, CODE# VB-001-D**

Product Description: (Green shade) Powdered Blue Pigment

Product Use: As an acid/alkaline stable, ***non heavy metal***, blue for coloring stucco, pool plaster, mortars and various thermoplastic and thermo set polymers found in coatings, plastics and polyester/composites.

Duke University School of Medicine has determined that VB-001-D, blue does not require health hazard labeling for artist materials governed under ASTM's labeling provision # D-4236.

SECTION II – COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>CAS#</u>	<u>% (By Weight)</u>
1. Hydrous Magnesium Aluminum Silicate (Natural Clay)	12174-11-7	89-94%
2. Proprietary Pigment	N/A	5-10%
3. Crystalline Silica	14808-60-7	< 1%

- Balance of raw materials are non hazardous, proprietary and/or constitute less than 1% of total formula.

SECTION III – PHYSICAL & CHEMICAL PROPERTIES

- Physical Properties: Solid powder
- Appearance/Odor: Blue/odorless
- Specific gravity: 1.96
- ph range: 8-9
- Boiling Point: N/A
- Melting Point: N/A
- Solubility in Water: Very slight
- Vapor density: N/A
- Vapor Pressure: N/A
- Volatiles by volume: N/A

SECTION IV – FIRE & EXPLOSION HAZARDS

HMIS CODE: Health: -1- Flammability: -0- Reactivity: -0-

-General Information: As in any fire, wear a self contained breathing apparatus in pressure demand MSHA/NIOSH and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

-Extinguishing Media: Use the agent most appropriate to extinguish fire. Use water spray, dry chemical, carbon dioxide, or appropriate foam.

-Flash Point: Pigment is not flammable.

-Auto Ignition temperature: N/A

-Explosion Limits (Upper/Lower): N/A

SECTION V – REACTIVITY DATA

-Stability: Stable under normal temperatures and pressures.

-Hazardous Polymerization: Has not been reported.

-Incompatibility: Strong oxidizing agents.

-Conditions to Avoid: Incompatible materials such as strong oxidants.

-Hazardous Decomposition Products: Nitrogen oxides, carbon monoxides, irritating and toxic fumes and gases, carbon dioxide, hydrogen chloride.

SECTION VI – TOXICOLOGICAL PROPERTIES

-Routes of Entry: Inhalation, eye contact and ingestion.

Mineral Blue, VB-001-D, may contain crystalline silica. IARC has concluded that there is limited evidence for the carcinogenicity of crystalline silica to humans and sufficient evidence for the carcinogenicity of crystalline silica to experimental animals (IARC Class 2A). The NTP has concluded that "silica, crystalline (respirable) may reasonably be anticipated to be a carcinogen, based on sufficient evidence for the carcinogenicity of respirable crystalline silica in experimental animals and limited evidence in humans.

SECTION VII – PRECAUTIONS FOR SAFE USE & HANDLING

-Ventilation: Good general ventilation is sufficient in most cases.

-Skin Protection: Lab coat and plastic gloves.

-Respiratory Protection: Respiratory protection necessary if ventilation is inadequate.

-Eye Protection: Wear appropriate eye glasses or chemical safety goggles.

-Clothing: Wear appropriate protective gloves to prevent skin exposure.

-Handling: Avoid creating and breathing dust. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

-Storage: Store in a cool, dry, well ventilated area. Keep container closed when not in use.

-Spills/Leaks: Clean up spills immediately. Use dust less methods (vacuum) and place in closeable container for disposal.

-Waste Disposal: Dispose of in accordance with federal, state and local regulations.

-Other Precautions: Use dustless systems for handling, storage and clean up so that airborne dust does not exceed the PEL. Use adequate ventilation and dust collection. Practice good housekeeping. Do not permit dust to collect in walls, floors, sills, ledges,

machinery or equipment. Maintain, clean and fit test respirators in accordance with OSHA regulations. Maintain and test ventilation and dust collection equipment. Wash or vacuum clothing which has become dusty.

SECTION VIII – EMERGENCY FIRST AID PROCEDURES

-Inhalation: Remove person immediately to fresh air. If breathing has stopped, use CPR and call for emergency medical attention. If symptoms persist, obtain medical attention immediately.

-Eye Contact: Flush with large amounts of water for at least 15 minutes and seek medical attention if irritation persists.

-Skin Contact: Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing.

-Ingestion: Seek medical attention.

SECTION IX – REGULATORY INFORMATION

TSCA:

CAS# 14808-60-7 is listed on the TSCA inventory

CAS# 12174-11-7 is a natural material clay and is listed on the TSCA inventory.

SECTION X – PREPARATION OF M.S.D.S.

The information contained herein is based on current knowledge and experience; no responsibility is accepted that the information is sufficient or correct in all cases. Users should consider these data only as supplement to other information. Users should make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials, the safety and health of employees and customer, and the protection of the environment.

Prepared By: William G. Osborne Jr.

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