



MATERIAL SAFETY DATA SHEET

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IN CASE OF SPILL EMERGENCY, DAY OR NIGHT, CALL CHEMTREC 1-800-424-9300

SECTION I PRODUCT IDENTIFICATION

IDENTITY: ER 5050 BLUE – CONCRETE & MORTAR PIGMENTS

SECTION II COMPOSITIONAL INFORMATION

<u>Ingredients</u>	<u>CAS Reg. No.</u>	<u>OSHA</u>	<u>TWA/TLV</u>	<u>ACGIH</u>
Sodium Alumino Sulphosilicate (EINECS)	57455-37-5 101357-30-6	5mg/m ³ (Total)		10 mg/m ³ (Respirable)

SECTION III PHYSICAL PROPERTY INFORMATION

Melting (Boiling) Point:	n.a.	Evaporation Rate (butyl acetate=1):	0
Freezing Point:	n.a.	Vapor Pressure (mm Hg):	n.a.
Percent Volatiles (By Weight):	n.a.	Vapor Density (air=1):	n.a.
Solubility in Water:	Insoluble	Specific Gravity (water=1):	2.25 – 2.35
Appearance-Color-Odor:	Fine-Blue- Odorless Powder	Viscosity:	n.a.
Ph:	6 to 9		

SECTION IV FIRE AND EXPLOSION HAZARD INFORMATION

Flash Point:	Non-flammable
Flammable Limits:	LEL: Non-flammable UEL: Non-flammable
Extinguishing Media:	Use standard fire fighting techniques to extinguish fires involving this material, i.e., water spray, dry chemicals or carbon dioxide.
Special Fire Fighting Procedures:	In fires sustained by other combustible material these products may undergo chemical change with the evolution of heat and toxic, irritant sulphur dioxide gas. Suitable breathing apparatus should therefore be worn by firefighters.
Unusual fire and explosion hazards:	None

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SECTION V	HEALTH HAZARD INFORMATION
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EFFECTS OF OVEREXPOSURE

Inhalation: None expected but may cause minor irritation to respiratory tract.

Skin Contact: Non-irritant and non-sensitizing, but may cause discomfort.

Eye Contact: May cause discomfort.

Medical Conditions Aggravated by Exposure: Persons suffering from chronic respiratory diseases may be at increased risk.

EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Remove to fresh air.

Skin Contact: Wash affected area.

Eye Contact: Flush eyes with potable water.

SECTION VI	REACTIVITY INFORMATION
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General Stability Considerations: Stable to 662° F (350° C).

Incompatibility (materials to avoid): Acids

Hazardous Combustion or Decomposition Products: Contact with acids liberates hydrogen sulphide, a highly flammable, toxic gas. At temperatures above 752° F (400°C) in the presence of air, an exothermic reaction can occur with an evolution of sulphur dioxide.

Hazardous Polymerization: Will not occur.

SECTION VII	SPILL OR LEAK PROCEDURE INFORMATION
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Spill or Leak Procedures: No special precautions are necessary unless contact with acid or fire occurs, in which case suitable breathing apparatus should be worn. Sweep up spills. Avoid contact with acids. Do not flush into drains.

Waste Disposal Method: Dispose of in accordance with Federal, State and Local regulations. Pigments should not be washed into wastewater or drains; and should not be disposed of where there is a risk of contact with acids. In case of an accidental major discharge into drains, flush with copious amounts of water to dilute any acidic conditions which may prevail.

SECTION VIII	PERSONAL PROTECTION INFORMATION
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Ventilation: Sufficient to maintain workplace concentration below TLV.

Respiratory Protection: Use of a NIOSH approved dust respirator is recommended when exposure limits may be exceeded.

Eye Protection: Safety glasses or goggles.

Hand Protection: Gloves appropriate for job.

Skin Protection: If discomfort is noted, wear long sleeve shirt.

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SECTION IX	STORAGE AND HANDLING INFORMATION
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Precautions to be Taken in Handling: Do not mix with acids. Avoid excessive dust generation and use appropriate dust control measures where necessary.

Precautions to be Taken in Storage: Do not store near acids. Do not store in areas where there is a risk of fire. Store in a dry, well-ventilated area.

SECTION X	TOXICITY INFORMATION
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Acute Oral Toxicity: LD50 more than 10,000 mg/kg.

Reported Human Effects: This product is non-toxic. ER 5050 pigment is the synthetic equivalent of the naturally occurring mineral Lapis Lazuli. It is extremely stable except under acidic conditions when it will decompose to white siliceous material with the evolution of hydrogen sulphide. ER 5050 Blue pigment poses no threat to the environment, if disposed of responsibly.

Carcinogenicity Information: Not listed with NTP, IARC or OSHA as a known or suspected carcinogen.

SECTION XI	REGULATORY INFORMATION
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TOXIC SUBSTANCES CONTROL ACT (TSCA): All components of this product are listed or are excluded from listing on the Chemical Substance Inventory (CSI) list (40CFR 710).

CERCLA INFORMATION (40CFR 117, 302.4): Releases of this material to air, land or water are not reportable to the National Response Center under the Comprehensive Environmental Response, Compensation and Liability Act or to state and local emergency planning committees under the Superfund Amendments and Reauthorization Act (SARA) Title III Section 304.

STATE RIGHT-TO-KNOW LAWS: California Proposition 65. ER 5050 Blue pigment may contain the following chemicals in the indicated typical amounts:

Arsenic	less than 3 ppm
Cadmium	less than 0.5 ppm
Chromium	12 ppm
Mercury	less than 1 ppm
Lead	17 ppm
Beryllium	not detected
Nickel	less than 1 ppm

TRANSPORTATION CLASSIFICATION: US DOT: Non-regulated. Do not transport with acids.

HAZARDOUS RATING: (HMIS and El Rey Information)

Health/Toxicity	1
Flammability	0
Reactivity	0
Personal Protection	E

SCALE:

4 = Extreme
3 = High
2 = Moderate
1 = Slight
0 = Insignificant

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SECTION XI (Continued)

REGULATORY INFORMATION

NOTE: HMIS, NFPA, and El Rey ratings involve data and interpretations that may vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard.

To deal adequately with the safe handling of this material, all the information contained in this MSDS must be considered. Hazardous Materials Identification System (HMIS) is a registered trademark of the National Paint and Coatings Association.

SECTION XII

ADDITIONAL INFORMATION

n.e. = Not established; n.a. = Not applicable/not available; n.d. = Not determined; NOS = Not Otherwise Specified; RQ = Reportable Quantity; resp. = Respirable dust; TLV - Threshold Limit Value; PEL = Permissible Exposure Limit; STEL - Short Term Exposure Limits (15 minutes); TWA - Time Weighted Average (8 hour); ANSI - American National Standards Institute; REL - Recommended Exposure Limits (developed by the NIOSH); NIOSH - National Institute for Occupational Safety and Health; OSHA - Occupational Safety and Health Administration; ACGIH = American Conference of Governmental Industrial Hygienists; LEL = Lower Explosive Limit; UEL = Upper Explosive Limit; ppm = parts per million; TSCA = Toxic Substance Control Act; SARA = Superfund Amendments and Reauthorization Act; DOT = Department of Transportation; WHMIS = Workplace Hazardous Materials Information System (Canadian).

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Date: 9/27/00