

MATERIAL SAFETY DATA SHEET

Diamond Mortar

PRODUCT NAME: NP110 PART A (DIAMOND MORTAR)
PRODUCT CODE: 110 A
HMS CODES: H F R P
1* 1 0 G

SECTION 1 – DISTRIBUTOR IDENTIFICATION

DISTRIBUTOR'S NAME: SUPERIOR EPOXIES & COATINGS, INC.
ADDRESS: 2527 Lantrac Court
Decatur, GA 30035

NON-EMERGENCY PRODUCT INFO: 1-800-543-3516
EMERGENCY PHONE: 1-800-424-9300 (CHEMTREC, 24 Hours)
DATE REVISED: 01-01-01

SECTION 2 – HAZARDOUS INGREDIENTS/SARA III INFORMATION

OCCUPATIONAL EXPOSURE LIMITS

HAZARDOUS COMPONENTS	CAS NUMBER	OSHA PEL	ACGIH TLV	OSHA STEL	VAPOR PRESSURE mm Hg	@ TEMP	WEIGHT PERCENT
Modified Diglycidyl Ether of Bisphenol A	25068-38-6	None	None	None	1.0	356 F	
Alryl Glycidyl Ether	68609-97-2	None	None	None	N/A	N/A	
Hydrocarbon Resin	Non-Hazardous	None	None	None	N/A	N/A	
Alyklated Phenol Hydroxy Modified Resin	Non-Hazardous	None	None	None	N/A	N/A	
Benzyl Alcohol	100-51-6	None	None	None	1.0	136 F	
*Glycol Ether 2-Butoxyethanol	111-76-2	25 ppm	25 ppm	None	10.0	97 F	< 0.5%
Stoddard Solvent	8052-41-3	100 ppm	100 ppm	None	2.0	68 F	
1,3,5-Trimethyl Benzene	108-67-8	None	None	None	1.0	48 F	
*Cumene	98-82-8	50 ppm	50 ppm	100 ppm	1.0	37 F	< 0.5%
*Xylene	1330-20-7	100 ppm	100 ppm	150 ppm	5.1	68 F	< 0.5%
*Isobutyl Alcohol	78-83-1	50 ppm	50 ppm	None	1.0	16 F	< 0.5%

* Indicated toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

SECTION III – PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING RANGE: 200 to 401 °F
SPECIFIC GRAVITY (H₂O=1): 1.1
VAPOR DENSITY: N/A
EVAPORATION RATE: N/A
SOLUBILITY IN WATER: Negligible
APPEARANCE AND ODOR: Low Viscosity Liquid in Both Clear and Colors

SECTION IV – FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 200+ °F
METHOD USED: SETA FLASH
FLAMMABLE LIMITS IN AIR BY VOLUME
LOWER: N/A **UPPER:** N/A

EXTINGUISHING MEDIA: Foam, Alcohol Foam, CO₂, Dry Chemical, Water Fog

SPECIAL FIREFIGHTING PROCEDURES

Do not enter confined fire area without full bunker gear including a positive pressure NIOSH approved self-contained breathing apparatus. Cool all fire exposed containers with water.

UNUSUAL FIRE AND EXPLOSION HAZARDS

No unusual fire hazards known.

SECTION V – REACTIVITY DATA

STABILITY: Stable
CONDITIONS TO AVOID: Avoid excessive heat or open flames

INCOMPATIBILITY (MATERIALS TO AVOID)

Can react vigorously with strong oxidizing agents and strong lewis acids or mineral acids.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS

CO₂, Aldehydes, Acids. Reaction with some curing agents can generate large amounts of heat.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION VI – HEALTH HAZARD DATA

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

No guide for control known, however, exposure to heated vapors can cause irritation to the nose, throat or mucous membranes.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Skin: May cause irritation or allergic skin response. Eyes: May cause irritation but no corneal injury is likely.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Not likely to be absorbed in toxic amounts.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

This material has a probable low acute oral toxicity.

HEALTH HAZARDS (ACUTE AND CHRONIC)

Epoxy resins can cause sensitization by exposure through contact or high concentrations of vapor. Eyes: Injury is unlikely but stain for evidence of corneal injury.

CARCINOGENICITY:

NTP? NO IARC MONOGRAPHS? NO OSHA REGULATED? NO

No listed ingredients of this product are regulated as carcinogens.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

Respiratory conditions or other allergic response.

EMERGENCY AND FIRST AID PROCEDURES

Eyes: Flush eyes with water for at least fifteen minutes and consult a physician. Skin: Skin contact will normally cause no more than irritation but wash affected area with soap and water and remove contaminated clothing promptly. Inhalation: Remove victim to fresh air area and administer oxygen if necessary. Ingestion: Low in toxicity, induce vomiting only if large amounts of material are ingested, otherwise do not induce vomiting. In either case immediately consult with a physician.

SECTION VIII – CONTROL MEASTURES

RESPIRATORY PROTECTION

Use a NIOSH approved respirator as required to prevent over-exposure to vapor in accordance with 29 CFR 1910.134. General exhaust is usually sufficient in lieu of NIOSH respirator.

VENTILATION

General exhaust is usually sufficient to control vapors and exposure hazards.

PROTECTIVE GLOVES

Impervious gloves – neoprene or rubber.

EYE PROTECTION

Splash goggles or glasses with side shields.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT

Wear body covering clothing and other coverings as necessary such as apron and appropriate footwear to avoid contact with

material.

WORK / HYGIENIC PRACTICES

Observe good general hygienic practices.

SECTION IX – DISCLAIMER

DISCLAIMER

The information contained herein is based on the data available to us and is believed to be accurate. However, no warranty is expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. No responsibility is assumed for injury from the use of this product

- END -

MATERIAL SAFETY DATA SHEET

Diamond Mortar

PRODUCT NAME: NP110 PART B (DIAMOND MORTAR)
PRODUCT CODE: 110 B
HMS CODES: H F R P
2* 1 0 G

SECTION I – DISTRIBUTOR IDENTIFICATION

DISTRIBUTOR'S NAME: SUPERIOR EPOXIES & COATINGS, INC.
ADDRESS: 2527 Lantrac Court
Decatur, GA 30035

NON-EMERGENCY PRODUCT INFO: 1-800-543-3516
EMERGENCY PHONE: **1-800-424-9300** (CHEMTREC, 24 Hours)
DATE REVISED: 01-01-01

SECTION II – HAZARDOUS INGREDIENTS/SARA III INFORMATION

OCCUPATIONAL EXPOSURE LIMITS

HAZARDOUS COMPONENTS	CAS NUMBER	OSHA PEL	ACGIH TLV	OSHA STEL	VAPOR PRESSURE mm Hg	@ TEMP	WEIGHT PERCENT
N,N-BIS (Aminoethyl)-1,2-Ethanediamine	112-24-3	None	None	None	N/A	N/A	
Propoxylated Triethylenetetramine	26950-63-0	None	None	None	N/A	N/A	

*** No toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372 are present ***

SECTION III – PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING RANGE: N/A
SPECIFIC GRAVITY (H2O=1): 1.0
VAPOR DENSITY: N/A
EVAPORATION RATE: N/A
SOLUBILITY IN WATER: Negligible
APPEARANCE AND ODOR: Amber clear liquid with amine odor

SECTION IV – FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 200+ °F
METHOD USED: SETA FLASH
FLAMMABLE LIMITS IN AIR BY VOLUME
LOWER: N/A **UPPER:** N/A

EXTINGUISHING MEDIA: Foam, Alcohol Foam, CO2, Water Fog

SPECIAL FIREFIGHTING PROCEDURES

Toxic fumes will be evolved when this material is involved in a fire. A self-contained breathing apparatus should be available for fire fighters. Cool fire exposed containers with water.

UNUSUAL FIRE AND EXPLOSION HAZARDS

No unusual fire hazards known.

SECTION V – REACTIVITY DATA

STABILITY: Stable

CONDITIONS TO AVOID: Avoid contact with open flames and all sources of ignitions and sparks

INCOMPATIBILITY (MATERIALS TO AVOID)

Avoid contact with strong oxidizing agents, mineral acids and epoxy resins in uncontrolled amounts.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS

CO, CO₂, NO_x.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION VI – HEALTH HAZARD DATA

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

High concentrations of vapor can cause irritation to the respiratory tract, nausea and dizziness.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Will cause burns to the skin and eyes. High vapor concentrations can cause severe irritation to the eyes.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

None known.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Liquid can cause severe damage to mucous membranes if swallowed.

HEALTH HAZARDS (ACUTE AND CHRONIC)

Prolonged or repeated exposure may cause asthma and skin sensitization or other allergic responses.

CARCINOGENICITY:

NTP? NO IARC MONOGRAPHS? NO OSHA REGULATED? NO

No listed ingredients of this product are regulated as carcinogens.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

Respiratory conditions or other allergic ailments.

EMERGENCY AND FIRST AID PROCEDURES

Eyes: Immediately flush with large amounts of water for at least 15 minutes while lifting upper and lower lids. Get immediate medical assistance. Skin: Flush skin with water for at least 15 minutes and remove all contaminated clothing immediately. Get medical attention if reddening or swelling occurs. Inhalation: Remove to fresh air if effects persist and administer oxygen if necessary. Ingestion: Do not induce vomiting. Dilute by giving water or milk to drink if victim is conscious. Get medical attention immediately.

SECTION VII – PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Avoid contact with material. Wear the appropriate safety equipment. Stop spill at source, dyke area to prevent spreading. Pump liquid to salvage tank. Take up remainder with clay or other absorbent and place in disposal containers.

WASTE DISPOSAL METHOD

Dispose of material as a hazardous waste according to federal, state, and local regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Avoid all skin contact. Avoid breathing vapors. Reseal partially used containers. Properly label all containers. Wash with soap and water before eating, drinking, smoking, or using toilet facilities. Observe conditions of good industrial hygiene and safe working practices.

OTHER PRECAUTIONS

Mixed materials contain the hazards of all the components, therefore, read the KSDS of all components to become familiar with all hazards prior to using this product.

SECTION VIII – CONTROL MEASTURES

RESPIRATORY PROTECTION

NIOSH approved respirator protection required in the absence of proper environmental controls. For emergencies a self-contained breathing apparatus or a full face respirator is recommended.

VENTILATION

Avoid breathing vapors. Ventilation must be sufficient to control vapors.

PROTECTIVE GLOVES

Impervious gloves – neoprene or rubber.

EYE PROTECTION

Splash proof goggles or safety glasses with side shields.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT

Clean body covering clothing as well as apron, footwear, or other equipment should be used as deemed necessary to avoid contact with the material.

WORK / HYGIENIC PRACTICES

Observe general good hygienic practices.

SECTION IX – DISCLAIMER

DISCLAIMER

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MATERIAL SAFETY DATA SHEET

Diamond Mortar

PRODUCT NAME: NP110 PART C (DIAMOND MORTAR)
PRODUCT CODE: 110 C
HMS CODES: H F R P
2* 0 0 E

SECTION I – DISTRIBUTOR IDENTIFICATION

DISTRIBUTOR'S NAME: FEDERAL TECHNICAL SERVICES, INC.
ADDRESS: 980 Kenmill Drive N.W.
Marietta, GA 30060

NON-EMERGENCY PRODUCT INFO: 1-800-543-3516
EMERGENCY PHONE: **1-800-424-9300** (CHEMTREC, 24 Hours)
DATE REVISED: 01-01-01

SECTION II – HAZARDOUS INGREDIENTS/SARA III INFORMATION

OCCUPATIONAL EXPOSURE LIMITS

HAZARDOUS COMPONENTS	CAS NUMBER	OSHA PEL	ACGIH TLV	OSHA STEL	VAPOR PRESSURE mm Hg	@ TEMP	WEIGHT PERCENT
Silicon Dioxide	14808-60-7	10mg/m3	.1mg/m3	.1mg/m3	N/A	N/A	100.00

*** No toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372 are present ***

Follow OSHA Hazard communication rule 29 CFR Sections 1910.1200, 1915.99, 1917.28, 1918.59, and state and local community right to know laws. We recommend that smoking be prohibited in areas where respirators must be used.

SECTION III – PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT: N/A
SPECIFIC GRAVITY (H₂O=1): 2.6
VAPOR DENSITY: N/A
EVAPORATION RATE: N/A
SOLUBILITY IN WATER: Insoluble in water
APPEARANCE AND ODOR: White or tan sand granular crushed or ground – no odor

SECTION IV – FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: N/A
METHOD USED: N/A
FLAMMABLE LIMITS IN AIR BY VOLUME
LOWER: N/A **UPPER:** N/A

EXTINGUISHING MEDIA: Other

SPECIAL FIREFIGHTING PROCEDURES

Crystalline silica is neither a fire nor an explosion hazard.

UNUSUAL FIRE AND EXPLOSION HAZARDS

No unusual fire hazards known.

SECTION V – REACTIVITY DATA

STABILITY: Stable

CONDITIONS TO AVOID:

Contact with powerful oxidizing agents such as fluorine, chlorine, trifluoride, manganese trioxide, oxygen trifluoride.

INCOMPATIBILITY (MATERIALS TO AVOID)

Can react vigorously with strong oxidizing agents – see conditions to avoid.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS

Silica will dissolve in hydrochloric acid to form a corrosive gas – silicon tetra fluoride.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION VI – HEALTH HAZARD DATA

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Prolonged exposure to respirable crystalline quartz may cause delayed lung injury (silicosis), acute or rapidly developing silicosis may occur in a short period of time in heavy exposure in some applications such as sand blasting.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE

May cause reddening of the eyes or eye irritation from airborne particles.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

None known.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

None known.

HEALTH HAZARDS (ACUTE AND CHRONIC)

May cause delayed silicosis or rapid silicosis in some occupations such as sandblasting. Silicosis is a form of a disabling pulmonary fibrosis which can be progressive and could lead to death. Inhalation may lead to lung scarring and massive fibrosis which could be accompanied by right heart enlargement, heart failure, or pulmonary failure. Smoking aggravates the effects of exposure.

CARCINOGENICITY:

NTP? Yes **IARC MONOGRAPHS?** Yes **OSHA REGULATED?** NO

IARC has determined that crystalline silica inhaled in the form of quartz is carcinogenic to humans (Group 1 – carcinogenic to humans). The NTP classifies respirable crystalline silica as reasonably anticipated to be a carcinogen.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

Respiratory conditions or other allergic ailments can be aggravated by exposure.

EMERGENCY AND FIRST AID PROCEDURES

Eyes: Flush eyes with water for at least fifteen minutes and consult a physician if conditions warrant. Skin: Skin contact will normally cause no health risks. Inhalation: Remove victim to fresh air area and administer oxygen if necessary, consult a physician if conditions warrant. If ingested, consult a physician.

SECTION VII – PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Wear respirator and use dustless handling equipment to clean up large spills. Place in suitable containers for disposal. Flush area with water after pickup of material.

WASTE DISPOSAL METHOD

Dispose of the material in a waste disposal site in accordance with federal, state, and local laws.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Store in a cool, dry place. Properly label all containers and reseal all partially used containers. Avoid creating any dust when working with this material.

OTHER PRECAUTIONS

Avoid breathing dust generated from the material. Observe conditions of good general hygiene and safe working practices. Provide training for your employees relating to occupational exposure to quartz dust. See ASTM standard E1132-86 standard practice for health requirements relating to exposure to quartz dust. If better than 500 X PEL use a self contained breathing apparatus. If sandblasting, use any type CB supplied air respirator with full face piece or hood.

SECTION VIII – CONTROL MEASURES

RESPIRATORY PROTECTION

Use a NIOSH approved respirator as required to prevent over-exposure to quartz dust. Provide sufficient exhaust to keep exposure levels below the ACGIH PEL.

VENTILATION

Use exhaust sufficient to maintain airborne particulates below the ACGIH PEL limits established.

PROTECTIVE GLOVES

N/A

EYE PROTECTION

Splash proof goggles or safety glasses with side shields.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT

Provide any equipment necessary to prevent the inhalation of quartz dust.

WORK / HYGIENIC PRACTICES

Observe general good hygienic practices.

SECTION IX – DISCLAIMER

DISCLAIMER

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