SHINAGAWA
SPECIALTY CERAMICS

SAFETY DATA SHEET

SHINDURAPAK™ 700 - Hardener

SDS No: 99.0017-H
Date Prepared: 02/15/2023
Revision: 1

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: SHINDURAPAK™ 700 - Hardener
GENERAL USE: Industrial Tile Adhesive
PRODUCT DESCRIPTION: Tile Adhesive
PRODUCT CODE: SHINDURAPAK™

MANUFACTURER

Shinagawa Specialty Ceramics Americas, LLC
4702 Route 982
Latrobe, PA 15650
Customer Service: 724-539-6000

24 HR. EMERGENCY TELEPHONE NUMBERS

INFOTRAC:

1-352-323-3500 (International)
1-800-535-5053 (North America)

SECTION 2: HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS
Health:

- Acute Toxicity (Oral), Category 4
- Skin Corrosion, Category 1B Eye Irritation, Category 2
- Serious Eye Damage, Category 2
- Skin Sensitization, Category 1
- Germ Cell Mutagenicity, Category 2
- Reproductive Toxicity, Category 2
- Target Organ Toxicity (Repeated exposure), Category 2

GHS LABEL PICTOGRAMS



GHS05 GHS07 GHS08

SIGNAL WORD: DANGER

HAZARD STATEMENTS

- H302: Harmful if swallowed.
- H316: Causes mild skin irritation.
- H318: Causes serious eye damage.
- H341: Suspected of causing genetic defects.
- H361: Suspected of damaging fertility. Suspected of damaging the unborn child.
- H373: May cause damage to organs through prolonged or repeated exposure.

PRECAUTIONARY STATEMENTS

Prevention:

- P103: Read label before use.
- P261: Avoid breathing dust/fume/gas/mist/vapors/spray.
- P262: Do not get in eyes, on skin, or on clothing.
- P273: Avoid release to the environment.
- P280: Wear protective gloves/protective clothing/eye protection/face protection.
- P285: In case of inadequate ventilation wear respiratory protection.

Response:
- P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
- P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P312: Call a POISON CENTER/doctor/...if you feel unwell.
- P363: Wash contaminated clothing before reuse.

Storage:
- P402+P404: Store in a dry place. Store in a closed container.

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE: Grey gritty paste
IMMEDIATE CONCERNS: Substance may be harmful if swallowed. May cause vomiting. High concentrations may lead to central nervous system effects (drowsiness, dizziness, nausea, headaches, paralysis and loss of consciousness). Contact may cause eye irritation. Prolonged or repeated contact may cause skin irritation.
POTENTIAL HEALTH EFFECTS
EYES: Serious eye damage/eye irritation
SKIN: Skin corrosion/irritation
SKIN ABSORPTION: May be absorbed through skin with prolonged and widespread contact.
INGESTION: Harmful if swallowed. May cause vomiting. May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage. May cause cardiovascular disorder and damage.
INHALATION: Prolonged or repeated exposure to fumes or mists may cause irritation.
MEDICAL CONDITIONS AGGRAVATED: Breathing problems, skin problems.
ROUTES O F ENTRY: Inhalation, ingestion, eyes, skin.
TARGET ORGAN STATEMENT: Respiratory system, lungs, skin, eyes

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
fatty acids, c18-unsatd., dimers, reaction products with polyethylenepolyamines	30 - 35	68410-23-1
3,6-diazaoctanethylenediamine	1 - 5	112-24-3
2-piperazin-1-ylethylamine	1 - 5	140-31-8
Nonylphenol	1 - 5	25154-52-3
Dibutylphthalate	1 - 5	84-74-2
Silica, Crystalline	0.01 - 1	14808-60-7

COMMENTS: Exact percentages of ingredients are proprietary and are withheld as a trade secret

SECTION 4: FIRST AID MEASURES

EYES: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists. Get medical advice/attention.
SKIN: Take off contaminated clothing. Wash with soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
INGESTION: Get immediate medical attention. Do not induce vomiting unless instructed to do so by poison center or physician.
INHALATION: Remove to fresh air. Oxygen or artificial respiration if needed. Call a physician if you feel unwell.
SIGNS AND SYMPTOMS OF OVEREXPOSURE
EYES: Treat symptoms
SKIN: Treat symptoms

SKIN ABSORPTION: Treat symptoms
INGESTION: Treat symptoms
INHALATION: Treat symptoms
ACUTE TOXICITY: Corrosive to eyes, skin and mucous membranes, which can result in strong irritation, burning and tissue damage. High vapor concentrations can cause severe eye and respiratory tract irritation, coughing and labored breathing. Prolonged or repeated contact may cause asthma, skin sensitization and other allergic responses.
NOTES TO PHYSICIAN: Treat symptomatically.

SECTION 5: FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Water spray (fog). Carbon dioxide (CO2). Dry chemical. Foam.
EXPLOSION HAZARDS: None Expected.
FIRE FIGHTING PROCEDURES: As in any fire, wear self-contained breathing apparatus operated in pressure-demand mode, (NIOSH approved or equivalent) and full protective gear.
FIRE FIGHTING EQUIPMENT: Carbon Dioxide, dry chemical or foam
FIRE EXPLOSION: None Expected.
SENSITIVE TO STATIC DISCHARGE: None
SENSITIVITY TO IMPACT: None

SECTION 6: ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Absorb spilled material and place it in appropriate container for disposal.
LARGE SPILL: Use same methods described for small spills.
ENVIRONMENTAL PRECAUTIONS
WATER SPILL: Keep out of sewers, streams and waterways.
SPECIAL PROTECTIVE EQUIPMENT: Refer to Section 8, Exposure Control/Personal Protection

SECTION 7: HANDLING AND STORAGE

GENERAL PROCEDURES: Handle in accordance with good industrial hygiene and safety practice. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wash thoroughly after handling. Use personal protection recommended in Section 8. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace.

HANDLING: Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling. Use personal protection recommended in Section 8. Avoid breathing dust or fume. Contaminated work clothing should not be allowed out of the workplace.

STORAGE: Keep containers tightly closed and in a well-ventilated place. Keep container dry.
STORAGE TEMPERATURE: 15°C (60°F) Minimum to 30°C (85°F) Maximum
SHELF LIFE: 1 Year

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)							
		EXPOSURE LIMITS					
		OSHA PEL		ACGIH TLV		Supplier OEL	
Chemical Name		ppm	mg/m3	ppm	mg/m3	ppm	mg/m3
Silica, Crystalline	TWA	250mpp	10		0.025	NL	NL
	STEL					NL	NL

ENGINEERING CONTROLS: Ensure adequate ventilation, especially in confined areas.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Wear safety glasses with side shields. Chemical splash goggles and face shield (ANSI Z87.1 or approved equivalent) are recommended.
SKIN: Coveralls or work clothes covering skin. Rubber gloves.
RESPIRATORY: Not normally needed if used in well-ventilated area. In case of insufficient ventilation, wear suitable respiratory equipment.
PROTECTIVE CLOTHING: Impervious clothing as necessary to prevent skin contact.
WORK HYGIENIC PRACTICES: Handle in accordance with good industrial hygiene and safety practice

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

ODOR: Ammonia
APPEARANCE: Smooth Thick Paste
COLOR: Black
pH: Not Determined
PERCENT VOLATILE: None known.
FLASH POINT AND METHOD: > 249°C (480°F)
Notes: Closed Container
AUTOIGNITION TEMPERATURE: > 249°C (480°F)
VAPOR PRESSURE: Not Determined
VAPOR DENSITY: Not Determined
BOILING POINT: Not Determined
FREEZING POINT: Not Determined
MELTING POINT: Not Determined
POUR POINT: Not Determined
THERMAL DECOMPOSITION: Not Determined
SOLUBILITY IN WATER: Partially
EVAPORATION RATE: Not Determined
DENSITY: Not Determined
SPECIFIC GRAVITY: 1.5
VISCOSITY: Not Determined
MOLECULAR WEIGHT: Not Determined

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: No
STABILITY: Stable
CONDITIONS TO AVOID: Extreme heat
POSSIBILITY OF HAZARDOUS REACTIONS: Not reactive under normal conditions.
HAZARDOUS DECOMPOSITION PRO DUCTS: When product burns it may form toxic materials such as carbon dioxide, carbon monoxide, various hydrocarbons, etc.
INCOMPATIBLE MATERIALS: Strong oxidizing agents, Acids, Bases, Amines

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE

Chemical Name	ORAL LD_{50}	DERMAL LD_{50}
fatty acids, c18-unsatd., dimers, reaction products with polyethylenepolyamines	> 5000 mg/kg body weight	
3,6-diazaoctanethylenediamine	2500 mg/kg (Rat)	805 mg/kg (Rabbit)

2-piperazin-1-ylethylamine	2097 mg/kg (Rat-Male)	866 mg/kg (Rabbit male)

EYE EFFECTS: Causes serious eye irritation.
SKIN EFFECTS: Causes skin irritation. May cause an allergic skin reaction.
CHRONIC: Prolonged or repeated contact may cause asthma, skin sensitization and other allergic responses.
CARCINOGENICITY

Chemical Name	NTP Status	IARC Status
Silica, Crystalline	1	1

Notes: The materials in this product do not separate from the mixture or in of themselves become airborne, therefore do not present a hazard in normal use.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICOLO GICAL INFORMATION: Not Determined
BIOACCUMULATION/ACCUMULATION: Not Determined
AQUATIC TOXICITY (ACUTE): Many aquatic species are intolerant to corrosive material such as the unreacted curing agent

SECTION 13: DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Dispose of this product in accordance with all applicable local, state and federal regulations**.**
PRODUCT DISPOSAL: Combine resin and curative. The final cured material is considered nonhazardous. Landfill sealed containers with stabilized and solidified liquids in an approved area. May be incinerated at an appropriate facility. Unreacted components are a special waste. Check local, state and national/federal regulations and comply with the most stringent requirement.
EMPTY CONTAINER: Disposal should be in accordance with applicable regional, national and local laws and regulations.
EUROPEAN WASTE CATALOGUE: 08 04 09
GENERAL COMMENTS: Combine resin and curative. The final cured material is considered nonhazardous. Landfill sealed containers with stabilized and solidified liquids in an approved area. May be incinerated at an appropriate facility. Unreacted components are a special waste. Check local, state and national/federal regulations and comply with the most stringent requirement.

SECTION 14: TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

SHIPPING NAME: Amines, solid, corrosive, N.O.S.(3,6-diazaoctanethylenediamine, 2-piperazin-1-ylethylamine, Dibutylphthalate) Marine Pollutant
PRIMARY HAZARD CLASS/DIVISION: 8
UN/NA NUMBER: 3259
PACKING GROUP: III
U.S. SURFACE FREIGHT CLASS: 55
PLACARDS: None
LABEL: Class 8
MARINE POLLUTANT #1: This product contains a chemical which is listed as a marine pollutant according to IMDG/IMO.

ROAD AND RAIL (ADR/RID)

SHIPPING NAME: Amines, solid, corrosive, N.O.S.(3,6-diazaoctanethylenediamine, 2-piperazin-1-ylethylamine, Dibutylphthalate) Marine Pollutant
UN NUMBER: 3259
PACKING GROUP: III
LABEL: Class 8
SPECIAL PROVISIONS: No special precautions.

AIR (ICAO/IATA)

SHIPPING NAME: Amines, solid, corrosive, N.O.S.(3,6-diazaoctanethylenediamine, 2-piperazin-1-ylethylamine, Dibutylphthalate) Marine Pollutant
UN NUMBER: 3259
PACKING GROUP: III
LABEL: Class 8
SPECIAL PROVISIONS: No special precautions

VESSEL (IMO /IMDG)

SHIPPING NAME: Amines, solid, corrosive, N.O.S.(3,6-diazaoctanethylenediamine, 2-piperazin-1-ylethylamine, Dibutylphthalate) Marine Pollutant
UN NUMBER: 3259
PACKING GROUP: III
LABEL: Class 8
SPECIAL PROVISIONS: No special precautions.

CANADA TRANSPORT OF DANGEROUS GOODS

SHIPPING NAME: Amines, solid, corrosive, N.O.S.(3,6-diazaoctanethylenediamine, 2-piperazin-1-ylethylamine, Dibutylphthalate) Marine Pollutant
UN/NA NUMBER: 3259
PRIMARY HAZARD CLASS/DIVISION: 8
PACKING GROUP: III
LABEL: Class 8

COMMENTS: US DOT: ERG NO. 154 May be shipped as Limited Quantities in packaging having a rated capacity gross weight of 66 lb. or less and in inner packages not over 5 kg (49 CFR 173.154 (b,2)

SECTION 15: REGULATORY INFORMATION

UNITED STATES
DOT LABEL SYMBOL AND HAZARD CLASSIFICATION



Corrosive


Marine Pollutant

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)
311/312 HAZARD CATEGORIES: Immediate & Delayed

EPCRA SECTION 313 SUPPLIER NOTIFICATION

Chemical Name	Wt.%	CAS
Dibutylphthalate	1 - 5	84-74-2

CERCLA (COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT)

Chemical Name	Wt.%	CERCLA RQ
Dibutylphthalate	1 - 5	10

TSCA (TOXIC SUBSTANCE CONTROL ACT)

Chemical Name	CAS
fatty acids, c18-unsatd., dimers, reaction products with polyethylenepolyamines	68410-23-1
3,6-diazaoctanethylenediamine	112-24-3
2-piperazin-1-ylethylamine	140-31-8
Nonylphenol	25154-52-3
Dibutylphthalate	84-74-2
Silica, Crystalline	14808-60-7

CALIFORNIA PROPOSITION 65: WARNING: Contains chemical(s) known by the State of California to cause cancer.

Chemical Name	Wt.%	Listed
Dibutylphthalate	1 - 5	• Cancer • Developmental Toxicity • Female Reproductive • Male Reproductive

CANADA
WHMIS HAZARD SYMBOL AND CLASSIFICATION



Corrosive **Toxic**

R36/37/38: Irritating to eyes, respiratory system and skin.
R43: May cause sensitization by skin contact.
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S1/2: Keep locked up and out of reach of children.
S24/25: Avoid contact with skin and eyes.
S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.
S46: If swallowed, seek medical advice immediately and show this container or label.
S51: Use only in well-ventilated areas.
S62: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

SECTION 16: OTHER INFORMATION

PREPARED BY: David Closser
REVISON DATE: 05/01/2026

HMIS™ RATING

HEALTH	*	3
FLAMMABILITY		1
PHYSICAL HAZARD		1
PERSONAL PROTECTION		*

NFPA™ 704 CODES



HMIS RATINGS NOTES: * = Section 8

Approximate HMIS and NFPA Ratings Legend:

0 = Low or None; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe

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