SHINAGAWA
SPECIALTY CERAMICS

SAFETY DATA SHEET

SHINDURAPAK™ 714 - Hardener

SDS No: 99.0028-H
Date Prepared: 10/15/2024
Revision: 1

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: SHINDURAPAK™ 714-Hardener
GENERAL USE: Industrial Tile Adhesive
PRODUCT DESCRIPTION: High Temperature 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:

- Eye Irritation, Category 2
- Serious Eye Damage, Category 2
- Skin Sensitization, Category 1

GHS LABEL PICTOGRAMS



GHS07

SIGNAL WORD: DANGER

HAZARD STATEMENTS

- H290: May be corrosive to metals
- H302: Harmful if swallowed.
- H316: Causes mild skin irritation.
- H318: Causes serious eye damage.

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: Dark Brown 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 mist may cause irritation.
MEDICAL CONDITIONS AGGRAVATED: Breathing problems, skin problems.
ROUTES OF ENTRY: Inhalation, ingestion, eyes, skin.
TARGET ORGAN STATEMENT: Respiratory system, lungs, skin, eyes

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
Silica, Crystalline	55 - 60	14808-60-7
4-nonylphenol, Branched	15 - 20	84852-15-3
Ceramic Microspheres	10 - 15	66402-68-4
Benzyl Alcohol	5 - 10	100-51-6
formaldehyde, polymer with benzenamine, hydrogenated	5 - 10	135108-88-2
cyclohexanamine, 4,4'-methylenebis-	5 - 10	1761-71-3
Diethylmethylbenzenediamine	5 - 10	68479-98-1
Polydimethylsiloxane, Silica Adduct	0.01 - 1	67762-90-7

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 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 fumes. Contaminated work clothing should not be allowed out of the workplace.

STORAGE: Keep container 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

Chemical Name	Flash Point (°C)
Benzyl Alcohol	200

ODOR: Ammonia
APPEARANCE: Smooth Thick Paste
COLOR: Tan
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: 1.67
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 a 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}	INHALATION LC_{50}
4-nonylphenol, Branched	1300 mg/kg (Rat)	3160 mg/kg (Rabbit)	
Benzyl Alcohol	1230	2000	1000
Polydimethylsiloxane, Silica Adduct	> 5000 mg/kg (Rat)		

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 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

SECTION 14: TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

SHIPPING NAME: Not regulated for transport
U.S. SURFACE FREIGHT CLASS: 55
PLACARDS: None

ROAD AND RAIL (ADR/RID)

SHIPPING NAME: Not regulated for transport

AIR (ICAO/IATA)

SHIPPING NAME: Not regulated for transport

VESSEL (IMO /IMDG)

SHIPPING NAME: Not regulated for transport

CANADA TRANSPORT OF DANGEROUS GOODS

SHIPPING NAME: Not regulated for transport

SECTION 15: REGULATORY INFORMATION

UNITED STATES

DOT LABEL SYMBOL AND HAZARD CLASSIFICATION

Not classified as hazardous

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES: Immediate & Delayed

TSCA (TOXIC SUBSTANCE CONTROL ACT)

Chemical Name	CAS
Silica, Crystalline	14808-60-7
4-nonylphenol, Branched	84852-15-3
Ceramic Microspheres	66402-68-4
Benzyl Alcohol	100-51-6
formaldehyde, polymer with benzenamine, hydrogenated	135108-88-2
cyclohexanamine, 4,4'-methylenebis-	1761-71-3
Diethylmethylbenzenediamine	68479-98-1
Polydimethylsiloxane, Silica Adduct	67762-90-7

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

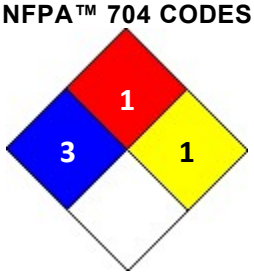
SECTION 16: OTHER INFORMATION

PREPARED BY: David Closser
REVISION 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

MANUFACTURER DISCLAIMER: The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.