



# SAFETY DATA SHEET

Resin

Wearpak 614

Date Prepared : 03/01/2023

SDS No : 99.0027/Wearpak 614

Date Revised:

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## 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Wearpak 614

**GENERAL USE:** Epoxy Resin

**PRODUCT DESCRIPTION:** High Temperature Wearing Compound

**PRODUCT CODE:** Wearpak 614 HT- Resin

### 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)

## 2. HAZARDS IDENTIFICATION

### GHS CLASSIFICATIONS

#### Health:

Skin Sensitization, Category 1

Skin Corrosion, Category 1B

Serious Eye Damage, Category 2

### GHS LABEL



Exclamation  
mark

**SIGNAL WORD:** WARNING

### HAZARD STATEMENTS

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation.

### PRECAUTIONARY STATEMENTS

#### Prevention:

P103: Read label before use.

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

P273: Avoid release to the environment.

P262: Do not get in eyes, on skin, or on clothing.

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**

**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 OF ENTRY:** Inhalation, ingestion, eyes, skin.

**TARGET ORGAN STATEMENT:** Respiratory system, lungs, skin, eyes.

**COMMENTS:** The health and safety hazards are listed separately for the resin and hardener. The final cured product is considered non-hazardous.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name	Wt. %	CAS
Ceramic Microspheres	65 - 70	66402-68-4
Bisphenol A/epichlorohydrin Resin	20 - 25	25068-38-6
phenol, polymer with formaldehyde, glycidyl ether	1 - 5	28064-14-4
Silica, Amorphous, Fumed	1 - 5	112945-52-5

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

**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:** Redness, burning sensation, tearing (watering) of the eyes.

**SKIN:** Substance may cause slight skin irritation.

**INGESTION:** Burning, irritation, upset stomach, intestinal distress.

**INHALATION:** No adverse effects anticipated. Irritation may be caused if product is above room temperature.

**NOTES TO PHYSICIAN:** Treat symptomatically.

**5. FIRE FIGHTING MEASURES**

**EXTINGUISHING MEDIA:** Water spray (fog). Carbon dioxide (CO<sub>2</sub>). Dry chemical. Foam.

**EXPLOSION HAZARDS:** None

**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

## 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.

## 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 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

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**ODOR:** Sweet

**APPEARANCE:** Gritty Paste

**COLOR:** Grey

**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:** Soluble  
**EVAPORATION RATE:** Not Determined  
**DENSITY:** Not Determined  
**SPECIFIC GRAVITY:** 2.37  
**VISCOSITY:** Not Determined  
**MOLECULAR WEIGHT:** Not Determined

## 10. STABILITY AND REACTIVITY

**REACTIVITY:** No  
**STABILITY:** Stable  
**CONDITIONS TO AVOID:** Extreme heat.  
**POSSIBILITY OF HAZARDOUS REACTIONS:** Not reactive under normal conditions.  
**HAZARDOUS DECOMPOSITION PRODUCTS:** 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.

## 11. TOXICOLOGICAL INFORMATION

### ACUTE

Chemical Name	ORAL LD <sub>50</sub>	DERMAL LD <sub>50</sub>	INHALATION LC <sub>50</sub>
Bisphenol A/epichlorohydrin Resin	> 5000 mg/kg (Rat)	> 4000 mg/kg (Rat)	
phenol, polymer with formaldehyde, glycidyl ether	> 2 (Rat) Greater than 2 g/kg.	> 2 (Rat) Greater than 2 g/kg.	> 1.7 (Rat) Greater than 1.7mg/L

**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.

## 12. ECOLOGICAL INFORMATION

**AQUATIC TOXICITY (ACUTE):** Many aquatic species are intolerant to corrosive material such as the unreacted curing agent.

## 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.

## 14. TRANSPORT INFORMATION

**DOT (DEPARTMENT OF TRANSPORTATION)**

**PROPER SHIPPING NAME:** Not regulated for transport.

**U.S. SURFACE FREIGHT CLASS:** 55

**ROAD AND RAIL (ADR/RID)**

**PROPER 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.

**15. REGULATORY INFORMATION**

**UNITED STATES**

**DOT LABEL SYMBOL AND HAZARD CLASSIFICATION**

Not classified as hazardous.

**TSCA (TOXIC SUBSTANCE CONTROL ACT)**

Chemical Name	CAS
Ceramic Microspheres	66402-68-4
Bisphenol A/epichlorohydrin Resin	25068-38-6
phenol, polymer with formaldehyde, glycidyl ether	28064-14-4

**CANADA**

**WHMIS HAZARD SYMBOL AND CLASSIFICATION**

Not classified as hazardous.

**16. OTHER INFORMATION**

**PREPARED BY:** Shani Vagnoni-Hull

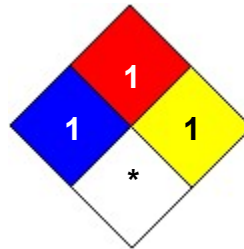
**Date Revised:** NA

**REVISION SUMMARY:** NA

**NFPA CODES**

**HMIS RATING**

<b>HEALTH</b>	*	<b>1</b>
<b>FLAMMABILITY</b>		<b>1</b>
<b>PHYSICAL HAZARD</b>		<b>1</b>
<b>PERSONAL PROTECTION</b>		*



**COMMENTS:** \* = Section 8

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