

Section 1. Identification of the substance/mixture and of the company/undertaking

Product ID: LSKA-400 (Part B)
Product Name: Epoxy steel putty resin hardener
Supplier: CSNRI | 621 Lockhaven Drive. Houston, TX 77073 | +1 281.590.8491
Emergency Phone Number: 800.424.9300 (CHEMTREC)
+1 703.741.5970 (Outside the US)
Product Description: Resin hardener
Product Use: For industrial purposes only.

Section 2. Hazards identification
Classification of the substance or mixture

Skin Irritation - Category 3
Eye Irritation - Category 2A
Skin Sensitizer - Category 1B
Carcinogenicity - Category 2
Acute toxicity, Dermal - Category 5
Acute toxicity, Oral - Category 4

Label Elements:


Signal word: Warning

Hazard statements:

H316 - Causes mild skin irritation
H319 - Causes serious eye irritation
H317 - May cause an allergic skin reaction
H351 - Suspected of causing cancer.
H302 - Harmful if swallowed.
H312 - May be harmful in contact with skin

Precautionary statement:

P261 - Avoid breathing dust/fume / gas / mist / vapours / spray.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P273 – Avoid release to the environment.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 - IF ON SKIN: Wash with plenty of water.
P321 - P333+P313 - If skin irritation or rash occurs: Get medical advice /attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P301+P312 – IF SWALLOWED: Call a Poison Center/doctor if you feel unwell.
P403 - Store in a well-ventilated place.
P410 - Protect from sunlight.
P420 - Store separately.

P501 - Dispose of contents/container in accordance with Local, State, Federal and Provincial regulations.

Other information: None known

Section 3. Composition/ Information on Ingredients

Substances:

Component	CAS #	Weight %
Mercaptan/amine blend	Trade secret	40 – 65 %
Titanium dioxide	13463-67-7	30 – 45
Benzyl alcohol	100-51-6	5 – 10
Silica precipitated	112926-00-8	1 – 5
Siloxanes and silicones, di-Me, reaction products with silica	67762-90-7	1 – 3
Silica, amorphous	7631-86-9	1 – 5
Aluminium hydroxide	21645-51-2	1 – 5

Section 4. First Aid Measures

First Aid Measures for Accidental:

Ingestion: If swallowed, do not induce vomiting unless directed to do so by a physician. Never give anything by mouth to an unconscious person. Rinse mouth with water.

Inhalation: Remove to fresh air and seek medical attention. In case of unconsciousness place patient stably inside position for transportation.

Skin Contact: Flush contaminated skin with plenty of soap and water for 15 to 20 minutes, remove contaminated shoes and clothing. Consult physician if symptoms develop.

Eye Contact: Flush with plenty of water for at least 20 minutes. Check for and remove any contact lenses. Call a doctor immediately.

Most important symptoms/effects, acute and delayed: No further relevant information available.

Indication of immediate medical attention and special treatment needed: No further relevant information available.

Section 5. Fire Fighting Measures

Suitable extinguishing media: Dry chemical, foam, carbon dioxide water spray or fog is recommended. Water spray is recommended to cool or protect exposed materials or structures.

Unsuitable extinguishing media: Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam.

Special hazards arising from the substance or mixture: No further relevant information available.

Hazardous Decomposition Materials (Under Fire Conditions): Hazardous decomposition products formed under fire conditions.

Special Protective Equipment and Precautions for Fire Fighters: Firefighters use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Protective clothing and respiratory protective device.

Section 6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures: Isolate hazard area and keep unnecessary people away. Remove all possible sources of ignition in the surrounding area. Notify authorities if any exposure to the general public or the environment occurs or is likely to occur. Cover the liquid with inert absorbent. Scoop all contaminated material into containers for proper disposal. Flush area with water to remove residues. Do not touch or walk through spilled material. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).

Environmental precautions: Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers.

Methods and materials for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of contaminated material as waste in accordance with federal state and local regulations. Ensure adequate ventilation.

Section 7. Handling and Storage

Precautions for safe handling: Open and handle receptacle with care. Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols. Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Keep container closed when not in use.

Conditions for safe storage including any incompatibilities: Keep container(s) tightly closed and properly labeled. Store in cool, dry, well-ventilated areas away from heat, direct sunlight, strong oxidizers and any incompatibilities. Store in approved containers and protect against physical damage. Keep containers securely sealed when not in use. Indoor storage should meet OSHA standards and appropriate fire codes. Containers that have been opened must be carefully resealed to prevent leakage. Empty container retain residue and may be dangerous. Do not cut, drill, grind, weld or perform similar operations on or near containers. Crystalline silica may be generated when machining cured products. Overexposure may create possible cancer and silicosis hazard.

Section 8. Exposure Controls / Personal Protection

Exposure Guidelines:

Component	OSHA TWA	NIOSH TWA	ACGIH TWA
Silica precipitated	80 mg/m ³ percent SiO ₂	-	-
Titanium dioxide	15 mg/m ³	-	10 mg/m ³

Appropriate engineering controls: Provide adequate ventilation. In case of development of vapors or dust: The use of local exhaust ventilation is recommended.

Personal protective equipment:

Hygiene measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

Respiratory Protection: If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker, a respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 and ANSI Z88.2 should be followed. Check with respiratory protective equipment suppliers. Use NIOSH approved organic vapor cartridge respirator when vapor mist exposure is likely.

Eye / Face Protection: Wear eye protection with side shields or goggles. Wear indirect-vent, impact and splash resistant goggles when working with liquids. If additional protection is needed for entire face, use in combination with a face shield.

Skin Protection: Use of gloves approved to relevant standards made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Chemical-resistant clothing is recommended to avoid prolonged contact. Avoid unnecessary skin contact. Wear gloves, long sleeved shirt, long pants and other protective clothing as required to minimize skin contact

Environmental exposure controls: Do not allow material to contaminate ground water system.

Section 9. Physical and Chemical Properties

Appearance (color):	No data available
Odour:	No data available
pH:	No data available
Melting point range:	Not applicable
Initial Boiling point/boiling range:	No data available
Flash Point:	Flash point at or above 200 °F
Evaporation rate:	No data available
Percent volatile:	No data available
Flammability (solid, gas):	No data available
Upper/lower flammability or explosive limits:	No data available
Vapour pressure:	No data available
Vapour density:	No data available
Relative density:	No data available
Specific gravity:	1.05
Solubility in water:	No data available
Partition coefficient (n-octanol/water):	Not applicable
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	No data available
Explosive properties:	No data available
VOC %:	9.25 %
VOC actual:	97.0 g/l

Section 10. Stability and Reactivity

Reactivity: No further relevant information available.

Chemical stability: Stable at normal temperature and pressure.

Possibility of hazardous reactions: Polymerization will not occur.

Conditions to avoid: Avoid contact with heat and flame.

Incompatible materials: Avoid strong oxidizing agents and acids.

Hazardous decomposition products: Hazardous decomposition products may include oxides of carbon and nitrogen, hydrocarbon fragments and organic decomposition fragments.

Section 11. Toxicological Information

Information on toxicological effects:

Acute Toxicity: No Data Available

Aspiration Hazard: No data available.

Carcinogenicity: Suspected of causing cancer

Germ Cell Mutagenicity: No data available.

Reproductive Toxicity: No data available.

Respiratory/Skin Sensitization: Inhalation of vapors may cause irritation of the respiratory tract. May cause an allergic skin reaction

Serious Eye Damage/Irritation: Corrosive to eyes and may cause severe damage including blindness. Causes serious eye irritation

Skin Corrosion/Irritation: Causes mild skin irritation

Specific Target Organ Toxicity - Repeated Exposure: No Data Available

Specific Target Organ Toxicity - Single Exposure: No Data Available

Section 12. Ecological Information

Aquatic toxicity: No data available

Mobility in soil: No data available

Persistence and degradability: data available

Bioaccumulative potential: No data available

Section 13. Disposal Considerations

Waste treatment methods: Under RCRA it is the responsibility of the user of the product to determine the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state and local laws.

Uncleaned packaging: Empty containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for any other purpose. Return drums to reclamation centers for proper cleaning and reuse. Disposal must be made according to official regulations.

Section 14. Transport Information

U.S. DOT Information: Not regulated.

IMDG Information: Not regulated.

IATA Information: Not regulated.

Section 15. Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture:

Component	Regulation list
Titanium dioxide	SARA312, IARC Carcinogen, TSCA, CA_ Prop. 65.
BEthyl alcohol	SARA312, TSCA
Silica-precipitated	SARA312, SARA313, TSCA, ACGIH, OSHA
Siloxanes and Silicones, di-Me, reaction products with silica	SARA312, TSCA,



Silica, amorphous	SARA312, IARC Carcinogen, TSCA,
Aluminium hydroxide	SARA312, TSCA,

Section 16. Other Information

Key Legend Information:

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstracts Service (division of the American Chemical Society)

HMIS: Hazardous Materials Identification System (USA)

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

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