



Material Safety Data Sheet

Product: PRK/BA Epoxy Catalyst

MSDS Date: 07-01-08
Product Name: PRK/BA Epoxy Catalyst
Manufacturer: Neptune Research, Inc.

I. Product and Company Description

Neptune Research, Inc.
1683 Latham Rd.
West Palm Beach, FL 33409

Emergency Phone Number:
800-535-5053

For Product Information:
(561) 683-6992

Product Description:
Glazing compound

Product Use:
Catalyst

Chemical Name or Synonym:
NA

Molecular Formula:
NA

II. Chemical Composition

Component	CAS#	%Composition
Mercaptan Terminated Polymer (New Jersey Trade Secret Registry 33611900-5145KP)	Trade Secret	50-100
Polyaminoamide	68410-23-1	25-50
2,4,6-tris(dimethylaminomethyl)phenol	90-72-2	10-25
Tetraethylenepentamine	112-57-2	≤2.5



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III. Hazards Identification

A. Emergency Overview:

Physical Appearance and Odor:
Liquid with rotten egg odor

B. Potential Health Effects:

Acute Eye:
Contact with eyes causes irritation.

Acute Skin:
Contact with skin causes irritation and redness.

Acute Inhalation:
May cause sensitization if inhaled.

Acute ingestion:
No exposure effects anticipated under normal work conditions. May cause gastrointestinal irritation if swallowed.

Chronic effects:
None

Medical Conditions Aggravated by Exposure:
Not Determined.

IV. First Aid Measures

First Aid Measures for Accidental:

Eye Exposure:
Hold lids apart and immediately flush eyes with plenty of water for at least 15 minutes. Seek medical advice.

Skin Exposure:
Remove contaminated clothing or shoes, wipe excess from skin and flush with plenty of water for at least 15 minutes. Use soap if available or follow by washing with soap and water. Do not reuse clothing until thoroughly cleaned. Get medical attention.



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Inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. In case of unconsciousness place patient stably in side position for transportation.

Ingestion:

Do not induce vomiting. Give one glass of water unless victim is drowsy, convulsing, or unconscious. Seek medical attention.

Notes to Physician:

Symptoms: Irritation as noted above. Skin sensitization (allergy) may be evidenced by rashes, especially hives.

V. Fire Fighting Measures

Fire Hazard Data:

Flash Point: 220°C (428°F)

Flammability Limits (vol/vol%): Lower: NA Upper: NA

Extinguishing Media:

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Use fire fighting measures that suit the environment.

Special Fire Fighting Procedures:

Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coats, gloves, and rubber boots) including a positive pressure NIOSH approved self-contained breathing apparatus.

Unusual Fire and Explosion Hazards:

Material will not burn unless preheated. Delayed lung damage (pulmonary edema) can be experienced after exposure to combustion products, sometimes hours after the exposure.

Hazardous Decomposition Materials (Under Fire Conditions):

Nitrogen oxides and other potentially hazardous nitrogen-containing compounds may be released upon combustion.

VI. Accidental Release Measures

Cleanup and Disposal of Spill:

Ensure adequate ventilation. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust and dispose of spilled materials according to the applicable Federal, State, or local regulations. Do not allow to enter sewers/surface or ground water.



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VII. Handling and Storage

Handling:

Avoid contact with skin or eyes. Avoid prolonged breathing. Even empty containers can contain residues which can contain hazardous product. Contaminated leather articles including shoes should be destroyed to prevent reuse. Heating this product above 300 Deg. F in the presence of air may cause slow oxidative decomposition; above 500 Deg. F, polymerization may occur. Some epoxy resins can produce exothermic reactions which in large masses can cause runaway polymerization. Fumes and vapors from thermal and chemical decomposition may be extremely toxic. Use either an atmosphere-supplying respirator or an air-purifying respirator for organic vapors.

Storage:

Keep in cool, dry, ventilated storage and in closed containers away from open flames, high temperatures, acids and oxidizers.

VIII. Exposure Controls / Personal Protection

Exposure Guidelines:

Not Applicable

Engineering Controls:

Not Applicable.

Respiratory Protection:

None normally required. In case of inadequate ventilation use NIOSH-approved respirator.

Eye / Face Protection:

Wear appropriate safety glasses with side shields or chemical goggles as described by OSHA's eye and face protection regulations in 29CFR 1910.133 or European Standard EN166. Use full face shield when cleaning processing fume condensates from hoods, ducts, and other surfaces.

Skin Protection:

Wear chemical resistant gloves when handling the product.

IX. Physical and Chemical Properties

Physical Appearance:	Liquid
Odor:	Rotten egg-like (mercaptans)
Boiling Point:	ND
pH:	ND



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Specific Gravity:	ND
Water Solubility:	Not miscible
Melting Point Range:	NA
Vapor Pressure:	ND
Percent Volatiles by Volume:	Negligible

X. Stability and Reactivity

Chemical Stability:

Stable under standard use and storage conditions.

Conditions to Avoid:

None

Materials / Chemicals to be Avoided:

Acids and oxidizers

Hazardous Decomposition Products:

Nitrogen oxides, carbon monoxide and unidentified organic compounds (some containing nitrogen) may be formed during thermal or oxidative decomposition or combustion.

Hazardous Polymerization:

Will not occur.

XI. Toxicological Information

Acute Effects:

For Mercaptan:

Oral LD50: 2.6 mg/kg (rat)

Dermal LD 50: >10.2 mg/kg (rabbit)

For Polyaminoamide:

Oral LD50: >2000 mg/kg (rat)

Dermal LD 50: >2000 mg/kg (rabbit)

For Tetraethylenepentamine:

Dermal LD 50: 660 mg/kg (rabbit)

Acute Eye Irritation:

Contact with eyes causes irritation.



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Acute Skin Irritation:

Contact with skin causes irritation and redness.

Acute Dermal Toxicity:

Not Determined

Acute Respiratory Irritation:

May cause sensitization if inhaled.

Acute Ingestion Toxicity:

No hazard in normal industrial use. May cause gastrointestinal irritation if swallowed.

Acute Inhalation Toxicity:

May cause sensitization if inhaled.

Chronic Toxicity:

Not Determined

XII. Ecological Information

Ecotoxicological Information:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Chemical Fate Information:

Not Determined

XIII. Disposal Considerations

Waste Disposal Method:

Discard any product, residue, disposable container or liner in full compliance with federal, state, and local regulations.

Container Handling and Disposal:

Dispose of container and unused contents in accordance with federal, state, and local regulations.

XIV. Transportation Information

US Department of Transportation Shipping Name:

US Department of Transportation	Proper Shipping Name	Not Regulated
	Hazard Class	Not Regulated
	ID Number	Not Regulated
	Packaging Group	Not Regulated



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	Label Statement	Not Regulated
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XV. Regulatory Information

Federal Regulations:

SARA Title III Hazard Classes:

Fire Hazard:	NO
Reactive Hazard:	NO
Release of Pressure:	NO
Acute Health Hazard:	NO
Chronic Health Hazard:	NO

Other Federal Regulations:

State Regulations:
None

Canada Regulations:

Classification: Not Classified

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

XVI. Other Information

National Fire Protection Association Hazard Ratings – NFPA(R):

Health Hazard:	0
Flammability:	0
Reactivity:	0

Key Legend Information:

N/A – Not Applicable

ND – Not Determined

ACGIH – American Conference of Governmental Industrial Hygienists

OSHA – Occupational Safety and Health Administration

TLV – Threshold Limit Value

PEL – Permissible Exposure Limit

TWA – Time Weighted Average

STEL – Short Term Exposure Limit



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NTP – National Toxicology Program

IARC – International Agency for Research on Cancer

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