

SECTION 1 - MATERIAL IDENTIFICATION

PRODUCT NAME - High Temp Infu-Cure Hardener

PRODUCT CODE - Infucure096HT, InfuCure1GHT, InfuCure5GHT, InfuCure10GHT, InfuCure15GHT

MANUFACTURER - PHOENIX RESINS, INC.
2615 RIVER ROAD #3A
CINNAMINSON, NJ 08077

TELEPHONE NUMBER 888-627-3769
EMERGENCY TELEPHONE NUMBER (S) - company - 1-888-627-3769
CHEMTREC - 800-424-9300

EMERGENCY OVERVIEW

HMIS HEALTH RATING	3	FLAMMABILITY	1	REACTIVITY	0
PHYSICAL FORM		Mobile liquid			
COLOR		Colorless			
ODOR		Ammonical			
HAZARDS		Harmful if swallowed. Corrosive to eyes. Corrosive to skin. Severe eye irritant. Severe skin irritant. May cause skin sensitization.			
EXTINGUISHING MEDIA		Ignition will give rise to a Class B fire. In case of large fire use: Alcohol Foam, Water Spray. In case of small fire use: Carbon Dioxide (CO2). Dry Chemical, Dry sand or limestone.			
C.A.S. CHEMICAL NAME		4,4' METHYLENEBIS(CYCLOHEXANAMINE			
SYNONYMS		Bis(para-aminocyclohexyl)			
CHEMICAL FAMILY		Cycloaliphatic Amine			
EMPIRICAL FORMULA	C13H26N2				
INTENDED USE		Curing Agent, Epoxy			

SECTION 2 - INGREDIENTS

The exact chemical identity of this component is a Trade Secret

OSHA (ACGIH) EXPOSURE LIMITS

	TWA		STEL			CEILING	
	ppm	mg/m3	ppm	mg/m3	ppm	mg/m3	
1. OSHA	N/E	N/E	N/E	N/E	N/E	N/E	N/E
ACGIH	N/E	N/E	N/E	N/E	N/E	N/E	N/E

N/E - NOT ESTABLISHED

SECTION 3 - HEALTH HAZARDS

ROUTES OF EXPOSURE

- Eye Contact
- Skin Contact
- Ingestion

EXPOSURE STANDARDS

No standards established for this product. Maintain air contaminant concentrations in the workplace at the lowest feasible levels.

HEALTH HAZARDS

- Harmful if swallowed
- Corrosive to eyes
- Corrosive to skin
- Severe eye irritant
- Severe skin irritant
- May cause skin sensitization.

TARGET ORGANS

- Eye
- Skin

SIGNS AND SYMPTOMS OF EXPOSURE (Acute effects)

Burns of the eye may cause blindness; Contact of undiluted product with the eye or skin quickly causes severe irritation and pain and may cause burns, necrosis and permanent injury. Inhalation of aerosols and mists may severely damage contacted tissue and produce scarring. Risk of exposure to hazardous concentrations of vapor under normal working conditions in a well ventilated space is minimal. However, conditions such as spraying or sudden release of hot liquid will generate an aerosol, mists or fog should be avoided. Ingestion may result in death unless treated promptly.

SIGNS AND SYMPTOMS OF EXPOSURE (Possible Longer Term Effects)

Repeated and/or prolonged exposure may cause allergic reactions / sensitization.
 Repeated and/or prolonged exposure may result in adverse effects such as conjunctivitis or corneal damage, adverse skin affects such as rash, irritation or corrosion)

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

- Eye Disease
- Skin diseases and Allergies

CARCINOGENS UNDER OSHA, ACGIH, NTP, IARC, OTHER

This product contains no carcinogens in concentrations of 0.1 percent or greater

SECTION 4 - FIRST AID

EYE CONTACT

Hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes. Seek medical advice.

SKIN CONTACT

Remove product and immediately flush affected area with water for at least 15 minutes Remove contaminated clothing and shoes. Cover affected area with a sterile dressing or clean sheeting and transport for medical care. DO NOT APPLY GREASES OR OINTMENTS . Control shock, if present. Launder contaminated clothing prior to reuse.

INHALATION

Move patient to fresh air. If breathing has stopped or is labored give assisted respiration (e.g. mouth to mouth) Prevent aspiration of vomit. Turn victim's head to the side. Seek medical advice.

INGESTION

In the event of ingestion, administer 3-4 glasses of milk or water. DO NOT INDUCE VOMITING. Seek medical attention. Note to physicians: This product is highly injurious to all tissues, similar to that of ammonia or ammonia gas. Chemical pneumonitis, pulmonary edema, laryngeal edema and delayed scarring of the airway or other affected tissues may occur following exposure. There is no specific treatment. Clinical management is based on supportive treatment, which is similar to that for thermal burns.

SECTION 5 - FIRE AND EXPLOSION DATA

FLASH POINT (closed cup) >100.00 °C (>212.00 °F)
UPPER EXPLOSION LIMIT (UE) No Data
LOWER EXPLOSION LIMIT (LE) No Data
AUTOIGNITION TEMPERATURE No Data
FIRE HAZARD CLASSIFICATION (OSHA/NFPA) Class IIIB

EXTINGUISHING MEDIA

Ignition will give rise to a Class B fire. in case of a large fire use: Water Spray, Alcohol Foam, In case of a small fire use Carbon Dioxide (CO2), Dry Chemical, dry Sand or limestone.

SPECIAL FIRE FIGHTING PROCEDURES

A face shield should be worn. Firefighters should wear Butyl rubber boots, gloves and body suit and a self contained breathing apparatus. Retain extended liquids from fire fighting for later disposal.

UNUSUAL FIRE AND EXPLOSION HAZARDS

May generate toxic or irritating combustion products. Contact of liquid with skin must be prevented. May generate carbon monoxide gas. May generate toxic nitrogen oxide gases. May generate ammonia gas.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

CONTAINMENT TECHNIQUES - (Removal of ignition sources, dikes, etc.) Stop the leak, if possible. Reduce vapor spreading with a water spray. Shut off or remove all ignition sources. Construct a dike to prevent spreading.

CLEAN-UP PROCEDURES

If recovery is not feasible, admix with dry soil, sand or non-reactive absorbent (sodium bisulfate) and place in a container or dumpster pending disposal. Transfer to containers by suction, preparatory for later disposal. Place in metal containers for recovery or disposal. Flush area with water spray. Clean-up personnel must be equipped with self container breathing apparatus and butyl rubber protective clothing. For large spills, recover spilled material with a vacuum truck.

OTHER EMERGENCY ADVICE

Wear protective clothing, boots, gloves and eye protection.

SECTION 7 - HANDLING AND STORAGE

STORAGE

Keep away from acids, oxidizers. Keep in cool, dry, ventilated storage and closed containers. Store in steel containers preferably located outdoors, above ground, and surrounded by dikes to contain spills or leaks. Do not store in iron or other reactive metal containers.

HANDLING

Avoid contact with skin, or eyes. When handling, do not eat, drink or smoke.

OTHER PRECAUTIONS

Emergency showers and eye wash stations should be readily accessible. Adhere to work practice rules established by government regulations (e.g. OSHA)

SECTION 8 - PERSONAL PROTECTION/ EXPOSURE CONTROLS

EYE PROTECTION

Full face shield with goggles underneath

HAND PROTECTION

Neoprene rubber gloves. Impermeable gloves, Cuffed butyl rubber gloves, Nitrile rubber gloves

RESPIRATORY PROTECTION

Not required under normal conditions

PROTECTIVE CLOTHING

Impervious clothing. Slicker suit, Rubber Boots. Full rubber suit (rain gear) Butyl or latex protective clothing.

ENGINEERING CONTROLS

No specific controls needed.

WORK AND HYGENIC PRACTICES

Provide readily accessible eye wash stations and safety showers. Wash at the end of each work shift and before eating, smoking or using the toilet. Promptly remove clothing that be comes contaminated. Discard contaminated leather articles.

SECTION 9 - TYPICAL PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL FORM	Mobile liquid
COLOR	Colorless
ODOR	Ammonical
pH	Alkaline
VAPOR PRESSURE (mm Hg at 21C (70F))	<0.10
VAPOR DENSITY (Air = 1)	No Data
BOILING POINT	320.00 C (608.00 F)
MELTING POINT	No Data
SOLUBILITY IN WATER	Insoluble (<0.1%)
SPECIFIC GRAVITY (Water = 1)	0.92
MOLECULAR WEIGHT	No Data

SECTION 10 - - STABILITY AND REACTIVITY

CHEMICAL STABILITY Stable

CONDITIONS TO AVOID (if unstable) Not applicable

HAZARDOUS DECOMPOSITION PRODUCTS (from burning, heating, or reaction with other materials). Carbon Monoxide in a fire. Carbon Dioxide in a fire. Ammonia when heated. Nitrogen Oxides in a fire. Irritating and toxic fumes at elevated temperatures. Nitric acid in a fire. Nitrogen oxide can react with water vapors to form corrosive nitric acid (TLV=2 ppm)

HAZARDOUS POLYMERIZATION Will not occur

CONDITIONS TO AVOID (if polymerization may occur) Not applicable

SECTION 11 - TOXICOLOGICAL PROPERTIES

ACUTE ORAL TOXICITY (LD50, RAT)	>625.00 mg/ kg
ACUTE DERMAL TOXICITY (LD50, RABBIT)	>2110.00 mg/kg (No deaths)
ACUTE INHALATION TOXICITY (LC50, RAT)	>10.00 mg/l / 1 hr (No deaths)
OTHER ACUTE EFFECTS	No Data
IRRITATION EFFECTS DATA	Corrosive to the skin of a rabbit.
CHRONIC/SUBCHRONIC DATA	Sensitization has occurred in laboratory animals after repeated exposures.

SECTION I2 - ECOLOGICAL INFORMATION

Ecotoxicity	No Data
Environmental Fate	No Data

Additional Information

Waste from this product may present long term environmental hazards, thus landfill disposal must be considered less acceptable than incineration.

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL — Comply with all Federal, State and Local Regulations.

SECTION 14 - TRANSPORT INFORMATION

DOT NON-BULK SHIPPING NAME 1 liter or less = ORM-D Consumer Commodity

DOT BULK SHIPPING NAME Amines, liquid, corrosive, n.o.s., (METHYLENEBISCYCLOHEXANAMINE, 4,4'-) // 8 // UN2735 // PG II

IMG SHIPPING DATA Amines, liquid, corrosive, n.o.s. (METHYLENEBISCYCLOHEXANAMINE, 4,4'-) // 8 // UN2735 // II // IMDG Page 8109-2 // F.P. 100.0 C // Placarded Corrosive // HazMat STCC=4935601 // EmS No= 8-05 // MFAG No: 320

ICAO/IATA SHIPPING DATA Amines, liquid, Corrosive, n.o.s. (METHYLENEBISCYCLOHEXANAMINE, 4, 4'-) // 8 // UN2735 // II // F.P. 100.0 C // Shipment per 40 CFR 71.11

US FEDERAL REGULATIONS TOXIC SUBSTANCES CONTROL ACT (TSCA) Included on Inventory

OSHA Hazard Communication Standard (29cfr1910.1200) hazard class (es) Corrosive, Sensitizer

EPA SARA Title III Section 312 (40CFR370) hazard class Immediate Health Hazard. Delayed Health Hazard

EPA Sara Title III Section 313 (40CFR372) toxic chemicals above "deminimis " levels are NONE

STATE REGULATIONS

PROPOSITION 65 substances (Component(s) know to the State of California to cause cancer and/or reproductive toxicity and subject to warning and discharge requirements under the "Safe Drinking Water and Toxic Enforcement Act of 1986") NONE

NEW JERSEY TRADE SECRET REGISTRY NUMBER (S) NONE

SECTION 16 - -INTERNATIONAL REGULATIONS

CANADA

DSL
Not on Inventory
WHMIS HAZARD CLASSIFICATION
Class D Division 2B, Class E Corrosive
WHMIS TRADE SECRET REGISTRY NUMBER
None
WHMIS HAZARDOUS INGREDIENTS
None
WHMIS SYMBOLS
Test tube/ hand Stylized T

EUROPEAN ECONOMIC COMMUNITY (EEC)

EINECS MASTER INVENTORY
Included on Inventory
EEC SYMBOL
Corrosive (C)

EEC RICK (R) PHRASES

Harmful if swallowed(R22). Causes severe burns (R35) Irritating to respiratory system (R37). May cause sensitization by skin contact (R43)

EEC SAFETY PHRASES

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice (S26).
Wear suitable protective clothing, gloves and eye/face protection (S36/37/39). In case of accident or if you feel unwell, seek medical advice immediately (Show the label where possible (S45).