

# Safety Data Sheet

RDH-9874

**PREMIUM RESIN TECH.**

DATE:3/15

## Section 1 - Chemical Product and Company Identification

Product/Chemical Name: **RDH-9874 HARDENER**

Chemical Formula: CYCLOHEXYLAMINE

Manufacturer : **PREMIUM RESIN TECH.**

4645 BREE ROAD, EAST CHINA, MI 48054 (586) 530-3633

## Section 2 - Composition / Information on Ingredients

Ingredient Name	CAS Number	% wt or % vol
1, 2-ETHANEDIAMINE, N-[2-AMINOETHYL]- MODIFIED POLYAMINE	111-40-0 -----	60-80 25-40

## Section 3 - Hazards Identification

☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

### Potential Health Effects



"DANGER"

<b>HMIS</b>
<b>H</b> 3
<b>F</b> 1
<b>R</b> 0
<b>PPE</b> †

**Inhalation:** PRODUCT MAY CAUSE IRRITATION TO THE NOSE, THROAT AND RESPIRATORY TRACT

**Eye:** MAY BE MODERATELY IRRITATING TO THE EYES.

**Skin:** MAY BE MODERATELY IRRITATING TO THE SKIN; MAY CAUSE SKIN SENSITIZATION. PROLONGED OR REPEATING LIQUID CONTACT CAN RESULT IN DEFEATING AND DRYING OF THE SKIN WHICH MAY RESULT IN SKIN IRRITATION AND DERMATITIS

**Ingestion:** PRODUCT IS MODERATELY TOXIC AND MAY BE HARMFUL IF SWALLOWED

**Carcinogenicity:** IARC, NTP, and OSHA do not list RDH-9874 as a carcinogen.

**Medical Conditions Aggravated by long-term Exposure:** PREEXISTING EYE, SKIN AND RESPIRATORY DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT. PREEXISTING SKIN OF LUNG ALLERGIES MAY INCREASE THE CHANCE OF DEVELOPING INCREASED ALLERGY SYMPTOMS FROM EXPOSURE TO THIS PRODUCT.

**Chronic Effects:**

## Section 4 - First Aid Measures

**Inhalation:** REMOVE VICTIM TO FRESH AIR AND PROVIDE OXYGEN IF BREATHING IS DIFFICULT. GIVE ARTIFICIAL RESPIRATION IF NOT BREATHING. GET MEDICAL ATTENTION.

**Eye Contact:** FLUSH EYES WITH PLENTY OF WATER FOR 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION.

**Skin Contact:** REMOVE CONTAMINATED CLOTHING/SHOES AND WIPE EXCESS FROM SKIN. FLUSH SKIN WITH WATER. FOLLOW BY WASHING WITH SOAP AND WATER. IF IRRITATION OCCURS, GET MEDICAL ATTENTION. DO NOT REUSE CLOTHING UNTIL CLEANED. CONTAMINATED LEATHER ARTICLES, INCLUDING SHOES, CANNOT BE DECONTAMINATED AND SHOULD BE DESTROYED TO PREVENT REUSE.

**Ingestion:** DO NOT INDUCE VOMITING , CALL A PHYSICIAN.

*After first aid, get appropriate in-plant, paramedic, or community medical support.*

**Special Precautions/Procedures:** STORE IN COOL, DRY PLACE WITH ADEQUATE VENTILATION. KEEP AWAY FROM OPEN FLAMES AND HIGH TEMPERATURES.

## Section 5 - Fire-Fighting Measures

**Flash Point:** > 200 F

**Flash Point Method:** PMCC

**LEL:** 1.2 %

**UEL:** N/AV

**Extinguishing Media:** USE WATER FOG, "ALCOHOL" FOAM, DRY CHEMICAL OR CO2.

**Unusual Fire or Explosion Hazards:** NO UNUSUAL HAZARDS.

**Hazardous Combustion Products:** NO UNUSUAL HAZARDS.

**Fire-Fighting Instructions:** Do not release runoff from fire control methods to sewers or waterways.

**Fire-Fighting Equipment:** Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full facepiece operated in pressure-demand or positive-pressure mode.

## Section 6 - Accidental Release Measures

**Spill /Leak Procedures:** MAY BURN ALTHOUGH NOT READILY IGNITABLE.

**Small Spills:** TAKE UP WITH AN ABSORBENT MATERIAL AND DISPOSE OF PROPERLY.

**Large Spills** DIKE AND CONTAIN. REMOVE WITH VACUUM TRUCKS OR PUMP TO STORAGE/SALVAGE MATERIAL; DISPOSE OF PROPERLY.

**Containment:** For large spills, dike far ahead of liquid spill for later disposal. Do not release into sewers or waterways.

**Cleanup:** FLUSH AREA WITH WATER TO REMOVE TRACE RESIDUE.

**Regulatory Requirements:** Follow applicable OSHA regulations (29 CFR 1910.120).

## Section 7 - Handling and Storage

**Handling Precautions:** MINIMIZE ALL CONTACT WITH MATERIAL. WASH WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING, APPLYING COSMETICS OR USING TOILET FACILITIES.

**Storage Requirements:** STORE IN COOL, DRY PLACE WITH ADEQUATE VENTILATION.

**Regulatory Requirements:** NONE

## Section 8 - Exposure Controls / Personal Protection

**Engineering Controls:**

**Ventilation:** Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Sec. 2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

**Administrative Controls:**

**Respiratory Protection:** Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH-approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. For emergency or nonroutine operations (cleaning spills, reactor vessels, or storage tanks), wear an SCBA. *Warning! Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.* If respirators are used, OSHA requires a written respiratory protection program that includes at least: medical certification, training, fit-testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient, sanitary storage areas.

**Protective Clothing/Equipment:** Wear chemically protective gloves, boots, aprons, and gauntlets to prevent prolonged or repeated skin contact. Wear protective eyeglasses or chemical safety goggles, per OSHA eye- and face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

**Safety Stations:** Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

**Contaminated Equipment:** Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment.

**Comments:** Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

## Section 9 - Physical and Chemical Properties

**Physical State:** LIQUID

**Appearance and Odor:** COLORLESS ; FAINT AMINE  
- LIKE ODOR

**Vapor Pressure:** 0.015 mm Hg at F (20 °C)

**Vapor Density (Air=1):** NOT VOLATILE

**Density:** 7.8 W.P.G.

**Specific Gravity (H<sub>2</sub>O=1, at 24 °C):** 1.0

**Water Solubility:** APPRECIABLE

**Boiling Point:** 477 F {247 C}

**Freezing/Melting Point:**

**% Volatile:** NOT VOLATILE

**Evaporation Rate:** NOT VOLATILE

## Section 10 - Stability and Reactivity

**Stability:** RDH-9874 is stable at room temperature in closed containers under normal storage and handling conditions.

**Polymerization:** Hazardous polymerization cannot occur.

**Chemical Incompatibilities:** STRONG OXIDANTS , ACIDS

**Conditions to Avoid:** N/A

**Hazardous Decomposition Products:** Thermal oxidative decomposition of RDH-9874 can produce AMMONIA , BURNING WILL PRODUCE TOXIC FUMES ; CO , NITRIC OXIDES , THERMAL DECOMPOSITION TEMPERATURE : 500 F {260 C}

## Section 11 - Disposal Considerations

**Disposal:** Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable Federal, state, and local regulations.

**Disposal Regulatory Requirements:**

**Container Cleaning and Disposal:**

## Section 12 - Other Information

**Prepared By:** *PREMIUM RESIN TECH*

**Revision Notes:** 10/2015

**Additional Hazard Rating Systems:**

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