# SAFETY DATA SHEET

**Date of Issue:** 12/15/2025
**Version:** 5.0

## 1. COMPANY IDENTIFICATION AND CHEMICAL PRODUCT

| | |
|---|---|
| **PRODUCT NAME** | NPR-3201 PVC Adhesive Hardener<br>NPR-3202 PVC Adhesive Hardener<br>NPR-3203 PVC Adhesive Hardener<br>NPR-3204 PVC Adhesive Hardener<br>NPR-3205 PVC Adhesive Hardener |
| **MANUFACTURER** | Neopoxy LLC<br>23964 Clawiter Road<br>Hayward, CA 94545 |
| **PHONE** | (510) 782-1290 |
| **EMERGENCY PHONE (24 HOURS)** | **(800) 424-9300** |
| **CHEMICAL NAME** | Reactive Mixture |
| **TRADE NAME** | Epoxy Hardener |

## 2. HAZARDS IDENTIFICATION

### GSH Certification

Acute toxicity - Oral Category 4
Acute toxicity - Inhalation Category 4
Skin corrosion - Category 1C
Serious eye damage - Category 1
Skin sensitivity - Category 1

### GHS label elements

**Hazard pictograms/symbols:**

**Signal Word:** Danger

**Hazard Statements:**
H302+H332: Harmful if swallowed or if inhaled
H314: Causes severe skin burns and eye damage
H317: Make cause allergic skin reaction

**Precautionary Statements:**

**Prevention:**
P261: Avoid breathing dust/fume/gas/mist/vapors/mist/spray
P264: Wash hands thoroughly after handling
P280: Wear protective gloves/protective clothing/eye/face protection

**Response:** P301+P330+P331: if swallowed: rinse mouth. Do not induce vomiting
P303+P361+P353: if on skin (or hair): remove/take off immediately all contaminated clothing. Rinse skin with water/shower
P305+P351+P338:if in eyes: rinse cautiously with water for15 minutes. Remove contact lenses if presented and easy to do. Continue rinsing.
P310: immediately call poison center/doctor.
P333+P313: if skin irritation or rash occurs: Get medical advice
P363: wash contaminated clothing before reuse.

**Disposal:** P501: disposal of contents/container to be specified in accordance with regulations.

**Hazards not otherwise classified**

None known

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Components | CAS Number | Concentration, Weight |
|---|---|---|
| Aminated oligomer* | - | 85-95% |
| 2-Methylpentamethylenediamine | 84852-15-3 | 5-10% |
| 2,4,6 Tris-dimethylaminomethylphenol | 13463-67-7 | 4-6% |
| Fumed Silica | 67762-90-7 | 0-5% |

**Chemical Family:** Aliphatic Amines. The remaining components are a trade secret.

## 4. FIRST AID MEASURES

**Eye Contact:** Immediately flush eyes with large amounts of water for at least 15 minutes. Hold eyelids apart while flushing to rinse entire surface of eye and lids. Do not attempt to neutralize with chemical agents. Obtain medical attention immediately.

**Skin Contact:** Immediately remove contaminated clothing and shoes. Under safety shower, flush skin thoroughly with large amounts of running water for at least 15 minutes. Do not attempt to neutralize with chemical agents. Discard or decontaminate clothing and shoes before reuse. Get medical attention immediately if severe reaction occurs.

**Ingestion:** If person is conscious and can swallow, immediately give two glasses of water (16 oz.). DO NOT induce vomiting. This material is corrosive. If vomiting occurs, give fluids again. Get medical attention immediately. Have a physician determine if condition of patient will permit induction of vomiting or evacuation of stomach. DO NOT give anything by mouth to an unconscious or convulsing person.

**Inhalation:** If inhaled, step away from product and breathe fresh air. If in respiratory distress, get medical attention immediately. If person is not breathing, clear person's airway and start artificial respiration.

## 5. FIRE FIGHTING MEASURES

**Suitable Extinguishing Media:** Alcohol-resistant foam
Carbon dioxide (CO2)
Dry chemical
Dry sand
Limestone powder

**Specific Hazards:** May generate ammonia gas and toxic nitrogen oxide gases.
Use of water may result in the formation of very toxic aqueous solution.
Do not allow run-off from firefighting to enter drains or water sources.
Incomplete combustion may form carbon monoxide.
Ammonia gas may be liberated at high temperatures.
In case of incomplete combustion an increased formation of nitrogen oxides (N0x) is to be expected.
Burning produces noxious and toxic fumes.

**Special PPE for Firefighters:** A face shield should be worn. Use personal protective equipment. Wear self contained breathing apparatus for fire fighting if necessary.

## 6. ACCIDENTAL RELEASE MEASURES

**Precautions:** Wear suitable protective clothing, including gloves and face protection.
Evacuate personnel to safe area.
If possible, stop flow of product.
Prevent runoff and contact with soil, waterways, drains, and sewers.
Construct a dike to prevent spreading.

**Clean Up Methods:** **Small Spill:** Use sand or another non-combustible absorbent.
Place in appropriate waste container.
Dispose of waste in accordance with local regulation.
**Large Spill:** Notify local government

## 7. HANDLING AND STORAGE

**Handling:** Avoid breathing vapors and/or aerosols.
Avoid contact with eyes.
Use only in well-ventilated areas.
Use personal protective equipment.
When using do not eat, drink, or smoke.

**Storage:** Do not store near acids.
Keep container tightly closed in dry, cool, well-ventilated space.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering Measures:** A system of local and/or general exhaust is recommended to keep employee exposures below Exposure Limit

**Personal Protective Equipment**

**Respiratory protection:** Only use product with adequate ventilation. If not possible:
Wear a respirator approved by NIOSH/MSHA (e.g., an organic vapor respirator, a full face air purifying respirator for organic vapors, or a self-contained breathing apparatus) whenever exposure to aerosol, mist, spray, fume or

vapor exceed the exposure limit(s) of any chemical substance listed in this MSDS. Use respirator in accordance with manufacturer's use limitations and OSHA standard 1910.134 (29CFR).

**Hand protection:** Wear nitric or any appropriate chemical resistant gloves.

**Eye protection:** Chemical resistant goggles must be worn.

**Skin and body protection:** Long sleeve shirts and trousers. Impervious clothing.

**Environmental exposure controls:** Construct a dike to prevent spreading.

**Exposure Limits**

| | | |
|---|---|---|
| **2-Methylpentane-1,5-diamine** | Ceiling Limit Value: OSHA | N/E |
| N/E = Not Established | Ceiling Limit Value: NIOSH | N/E |
| | Ceiling Limit Value: ACGUH (TLV) | N/E |
| | Ceiling Limit Value: EU / Reach | N/E |
| | Ceiling Limit Value: AIHA WEEL | 2 $mg/m^3$ ≈ 0.4 ppm |
| | Ceiling Limit Value: OSHA - STEL | N/E |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|---|---|---|---|
| **Appearance** | Viscous liquid | **Water solubility** | Negligible |
| **Odor** | Amine-like | **Density range** | .95 - 1.00 |
| **Color** | Amber | **Weight per gallon range** | 7.9 - 8.3 Lbs. |
| **Viscosity** | >130,000 cPs | **Vapor pressure** | 7.50mm Hg at 70*F |
| **Melting point** | No data available | **Flash Point-Closed Cup** | >200 °F |
| **Boiling point** | >225*F (>107*C) | **pH - 1% Solution** | 11-12 |

## 10. STABILITY AND REACTIVITY

**Chemical Stability:** Stable under normal conditions.

**Hazardous Polymerization** Hazardous polymerization will not occur.

**Conditions to Avoid** Do not expose to excessive heat or ignition sources.

**Materials to avoid:**
Strong Oxidizing Agents
Reducing Agents
Isocyanates

**Hazardous decomposition products:**
In case of fire, potential hazardous decomposition produces:
Carbon monoxide
Carbon dioxide
Aliphatic and Aromatic Hydrocarbons
Hydrogen Cyanide
Nitrogen oxides (NOx)
Cyclohexene Carbonitrile
Flammable hydrocarbon fragments

## 11. TOXICOLOGICAL INFORMATION

**Likely routes of exposure**

**Effect on eyes:** Causes eye burns or blindness.

**Effect on skin:** May permeate skin and cause skin burns.

**Inhalation effects:** Harmful if inhaled and may cause delayed lung injury. May affect central nervous system, including headache, nausea, dizziness, confusion, and breathing difficulties. Severe cases of overexposure can result in respiratory failure. Inhalation of vapor and aerosols in high concentration may cause irritation of respiratory system.

**Ingestion effect:** Harmful if swallowed. Ingestion may cause severe irritation and burns of the mouth, throat and digestive tract.

**Symptoms:** Repeated and/or prolonged exposure to low concentrations of vapors and/or aerosols may cause sore throat, neurological disorders, asthma, skin disorders, allergies, or eye disease.

**Acute toxicity**

**Acute oral toxicity:** LD50 > 1,230 mg/kg Species: Rat.
Not classified (based on available data, the classification criteria are not met). ATEmix (oral): >5000 mg/kg. ATEmix (dermal): >5000 mg/kg. ATEmix (inhale.): >5 mg/L, 4 hours.

**Carcinogenicity:** No data is available on the product itself.
The components of this mixture are not known to be listed or regulated by IARC (Group 1 or 2), NTP, OSHA or ACGIH.

**Germ Cell Mutagenicity:**
Not classified (no relevant information found). 2-METHYLPENTANE-1,5-DIAMINE: Mutagenic assays were negative for both in vivo and in vitro assays

**Reproductive Toxicity:**
Not classified (no relevant information found). 2-METHYLPENTANE-1,5-DIAMINE (READ-ACROSS): Reproductive toxicity (hexamethylene diamine), 2-generation oral study in rats: NOAEL (no-observed adverse-effect-level) of 500mg/kg bw/day. Developmental toxicity (hexamethylene diamine): NOAEL of 300 mg/kg bw/day can be established for developmental

**Specific Target Organ Toxicity (STOT)**
2-METHYLPENTANE-1,5-DIAMINE: Repeated dose toxicity study, rat, inhalation, 14 days: LOAEC (Lowest-Observed-Adverse-Effect-Concentration) - 9.2 mg/m3 (respiratory tract). Repeated dose study, oral, rats (read-across, 2-diaminocyclohexane): NOAEL (no-observed-adverse-effect-level) 150 mg/kg bw/day.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity** No data is available on the product itself.

**Persistence and Degradability**

**Biodegradability:** 2-Methylpentane-1,5-diamine is Readily Biodegradable (OECD 301D)

**Mobility in Soil:** No data is available on the product itself.

**Bioaccumulation:** No data is available on the product itself.

## 13. DISPOSAL CONSIDERATIONS

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Dispose of waste (incinerate) in a RCRA permitted hazardous waste disposal facility. Corrosive: EPA Hazardous Waste No. D002. Federal Resource Conservation and Recovery Act (RCRA), 40CFR261.22.

Avoid dispersal of product into soil, waterways, drains, and sewers.

## 14. TRANSPORT INFORMATION

**DOT / IATA / IMDG / TDG / ADR / RID / ICAO / IATA**

| | |
|---|---|
| UN/ID No.: | UN2735 |
| Proper shipping name: | Amines, Liquid, Corrosive, N.O.S. (Aliphatic amine) 2-Methylpentane-1,5-diamine |
| Class or division: | 8 |
| Packing group: | lll |
| Label(s): | 8 |
| Marin Pollutant: | No |

This product contains a substance that:
1) Is regulated as a Marine Pollutant, or
2) Meets definition of toxic to the aquatic environment.

## 15. REGULATORY INFORMATION

**Prepared in accordance with hazard criteria of the OSHA Hazard Communication Standard, 29 CFR 1910.1200.**

**U.S. Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) Reportable Quantity (RQ):**
Not applicable

**U.S. Superfund Amendments and Reauthorization Act (SARA) - SARA Section 313:**
This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and 40 CFR 372: None known

**U.S. TSCA Section 12(b) Export Notification:**
This product is not subject to TSCA 12(b) reporting requirements.

**California Proposition 65:**
The following ingredient(s) present in the product is [are] known to the State of California to cause cancer:
None known to be present or none in reportable amounts for occupational exposure as per OSHA's approval of the California Hazard Communication Standard, Federal Register, page 31159 ff, 6 June 1997.
The following ingredient(s) present in the product is [are] known to the State of California to cause reproductive harm:
None known to be present or none in reportable amounts for occupational exposure as per OSHA's approval of the California Hazard Communication Standard, Federal Register, page 31159 ff, 6 June 1997.
Notes: No additional information

**Canadian DSL:** One or more components are listed on the NDSL.

**Chemical Inventories:**

| Regulation | Status |
|---|---|
| Australian Inventory of Chemical Substances (AICS): | Y |
| Canadian Domestic Substances List (DSL): | N |
| Canadian Non-Domestic Substances List (NDSL): | Y |
| China Inventory of Existing Chemical Substances (IECSC): | Y |
| European EC Inventory (EINECS, ELINCS, NLP): | Y |
| Japan Existing and New Chemical Substances (ENCS): | N |
| Japan Industrial Safety and Health Law (ISHL): | N |
| Korean Existing and Evaluated Chemical Substances (KECL): | Y |
| New Zealand Inventory of Chemicals (NZIoC): | N |
| Philippines Inventory of Chemicals and Chemical Substances (PICCS): | N |
| Taiwan Inventory of Existing Chemicals: | Y |
| U.S. Toxic Substances Control Act (TSCA): | Y |

**Europe REACh (EC) 1907/2006:**
This product is considered a polymer under Regulation (EC) 1907/2006 and is exempt from the requirement for registration. Applicable monomers/other reactants are registered, exempt or otherwise compliant.
REACh is only relevant to substances either manufactured or imported into the EU.
Emerald Performance Materials has met its obligations under the REACh regulation. REACh information regarding this product is provided for informational purposes only.
Each Legal Entity may have differing REACh obligations, depending on their place in the supply chain.
For material manufactured outside of the EU, the importer of record must understand and meet their specific obligations under the regulation.

## 16. OTHER INFORMATION

**HMIS Rating**

| | |
|---|---|
| **Health** | 3 |
| **Flammability** | 1 |
| **Reactivity** | 1 |
| **Personal Protection** | D |

**Prepared in accordance with the Globally Harmonized System (GHS).**

## 17. DISCLAIMER

*The information contained in this safety data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by Neopoxy LLC and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.*