

Resin

MATERIAL SAFETY DATA SHEET (MSDS)

NN RESIN

SECTION - 1 PRODUCT AND COMPANY IDENTIFICATION

Manufacturer: PNI WORLDWIDE
 Manufacturer Address: 5008 W. LINEBAUGH AVE
 Emergency Phone: TAMPA, FL 33624
 General Phone: 1-800-727-1119

SECTION - 2 HAZARDOUS INGREDIENTS/COMPOSITIONAL DATA

INGREDIENT NAME	CAS/INCI No.	EXPOSURE LIMITS			%
		ACGIH-TWA	OSHA-PEL	Other	
Ethyl-2-Cyanoacrylate	7085-85-0	NE	NE	2ppm TWA	60-100
Poly(Methyl Methacrylate)	9011-14-7	NE	NE		10-30
Hydroquinone*	123-31-9	2mg/m3	2mg/m3		0-1

* This ingredient is subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments & Reauthorization Act of 1986 (SARA) and 40 CFR 372

SECTION - 3 PHYSICAL & CHEMICAL CHARACTERISTICS

Boiling Point:	140F	Appearance:	Transparent water-white to straw colored liquid
Density(Air=1):	nil-NE	Odor:	Stimulative odor
Vapor Pressure(mm Hg):	1@20C	Melting Point:	NE
Specific Gravity(H2O=1):	1.05	Solubility:	Insoluble, material reacts to hardened mass for non-hazardous waste
Evaporation Rate:	nil-NE		

SECTION - 4 FIRE AND EXPLOSION HAZARD DATA

Flash Point:	176F (TCC)
Flammable Limits in Air % By Volume:	LEL: NE UEL: NE
Extinguisher Media:	Flush with large amounts of water or dry chemical extinguisher
Special Fire Fighting Procedures:	Fumes may be irritating if not burning and require air supply with goggles while applying large amounts of water or dry chemical extinguisher.
Unusual Fire or Explosion Hazards:	None. Combustible requiring the above procedures

SECTION - 5**HEALTH HAZARD & FIRST AID DATA**

- Routes of Entry:* Inhalation: Yes Skin: No Ingestion: LD50 = 12 200ku (mice)
- Acute Symptoms:* Irritates eyes, mucous membranes
- Chronic Symptoms:* No residual effects of acute properties
- Skin Contact:* Immerse bonded areas in warm soapy water. Peel or roll skin apart. Remove cured adhesive with several applications of warm, soapy water. Prolonged or repeated contact at elevated levels may cause dermatitis in sensitive individuals.
- Eye Contact:* Tearing from eye irritation. Remove to fresh air. Flush areas of contact with water. Adhesive will dissociate from eye/eyelids over time, usually within several hours. Temporary weeping of eyes/double vision may be experienced until clearance is achieved.
- Inhalation:* Irritation of mucous membranes/coughing. Remove to fresh air. Prolonged or repeated exposure at elevated levels may produce allergic reactions with asthma-like symptoms in sensitive individuals
- Ingestion:* Lips may become stuck together; apply copious amounts of warm water and encourage wetting/pressure from saliva inside mouth. Peel or roll (do not pull) lips apart. It is almost impossible to swallow cyanoacrylate as adhesive solidified upon contact with saliva and may adhere to inside of mouth. Saliva will lift adhesive in 1-2 days, avoid swallowing adhesive after detachment.
- Carcinogenicity:* NTP: No IARC Monographs: No OSHA Regulated: No
- Medical Conditions:* Pre-existing skin, eye, and respiratory disorders may be aggravated by exposure

SECTION - 6**REACTIVITY DATA**

- Stability:* Stable
- Materials to Avoid:* Polymerized by water, alcohol, amines, alkaline materials and direct UV
- Conditions to Avoid:* Excessive heat above 176F, moisture and Alkalines. Stable up to 122F.
- Decomposition Products:* Combustible by-products of carbon monoxide/dioxide
- Hazardous Polymerization:* May not occur

SECTION - 7**PRECAUTIONS FOR SAFE HANDLING AND USE**

- Spill or Leak Procedure:* Polymerize with water. Solid material may be scraped from surfaces
- Waste Disposal Method:* Incinerate solid combustible waste or dump as chemical waste according to local, state and federal regulations.
- Handling and Storage:* Avoid moisture, direct UV-sunlight and do not store above 25 C. Keep containers closed tightly when not in use. Ideal storage: 5-10 C. Avoid breathing vapor, contact with eyes/skin. Allow product to reach room temperature before use

SECTION - 8**SPECIAL PROTECTION AND PRECAUTION DATA**

- Eye and Skin Protection:* Safety glasses with side shield, Vinyl (polyethylene) non-sticking gloves, rubber apron to protect clothing
- Respiratory Protection:* A NIOSH-approved organic vapor canister may be used to maintain vapor concentration below TLV.
- Work/Hygiene Practices:* Soap and water helps remove adhesive from skin.
- Other Precautions:* Provide sufficient ventilation in volume and pattern to keep contaminants below applicable OSHA requirements and other suggested exposure limits
- Ventilation:* Local Exhaust: To maintain vapor concentration below TLV.
Mechanical (General): Large amounts used to 2ppm.

SECTION - 9**MISCELLANEOUS DATA**

- Disclaimer:* The data contained herein is based upon information that PNI believes to be reliable. Users of this product have the responsibility to determine the suitability of use and to adopt all necessary precautions to ensure the safety and protection of property and persons involved in said use. All statements or suggestions are made without warranty, express or implied, regarding accuracy of information, the hazards connected with the use of the material, or the results to be obtained from the use thereof