

MATERIAL SAFETY DATA SHEET			
<b>CHEMICAL NAME</b> Nitroethane and 1-Nitropropane		<b>TRADE NAME</b> Lacquer Solvent NP-280	
<b>CHEMICAL FAMILY</b> Nitroparaffins		<b>FORMULA</b> CH <sub>3</sub> CH <sub>2</sub> NO <sub>2</sub> and CH <sub>3</sub> CH <sub>2</sub> CH <sub>2</sub> NO <sub>2</sub>	
INGREDIENT %BY WT CAS REG NO.			
<b>HAZARDOUS</b>	Nitroethane	=80	79-24-3
<b>INGREDIENTS</b>	1-Nitropropane	=20	108-03-2
<b>OTHER INGREDIENTS</b>			
<b>PHYSICAL DATA</b>	<b>BOILING POINT (°C)</b> 114-133	<b>SPECIFIC GRAVITY</b> 20/20°C =1.00	
	<b>VAPOR PRESSURE</b> MMHG AT 20°C =13	<b>PERCENT VOLATILE</b> 100	
	<b>VAPOR DENSITY</b> (AIR=1) 3.1 ~ 3.5	<b>EVAPORATION RATE</b> n-BAUTYL ACETATE=100 =92	
	<b>SOLUBILITY IN WATER</b> by vol. at 20°C = 2.0%		
	<b>APPEARANCE AND ODOR</b> Clear colorless liquid; mild characteristic odor.		
<b>FIRE AND EXPLOSION HAZARD DATA</b>	<b>FLASH POINT</b> ΣF TCC =88	<b>FLAMMABLE LIMITS</b>	<b>LEL</b> % 3.0
	<b>EXTINGUISHING MEDIA</b> Water spray, foam, CO <sub>2</sub> , Triclass ABC dry extinguishers only.		
	<b>SPECIAL FIRE FIGHTING PROCEDURES</b> Wet down tanks and containers to prevent rupture. Avoid breathing vapors.		
	<b>UNUSUAL FIRE EXPLOSION HAZARDS</b> Use only those dry chemical extinguishers rated for use on Class A, B, and C fires. Do not use bicarbonate-based dry chemical extinguishers in fighting fires. Dry salts formed with strong alkalis may be ignitable; keep them away from sparks and flame.		

The information, data, and recommendations contained here in are belived to be accurate. However, we make no warranty of any kind whatever with respect there to and disclaim all kabrlity from rekance thereon.

Lacquer Solvent NP-280

<b>REACTIVITY DATA</b>	STABLE ☺ UNSTABLE ☹
	<b>CONDITIONS TO AVOID</b> Extreme shock under heavy confinement at high temperature.
	<b>INCOMPATABILITY (MATERIALS TO AVOID)</b> Lead, copper, or their alloys; strong alkalis.
	<b>HAZARDOUS DECOMPOSITION PRODUCTS</b> Oxides of carbon and nitrogen.
	<b>HAZARDOUS POLYMERIZATION MAY OCCUR ☹</b> <b>HAZARDOUS POLYMERIZATION WILL NOT OCCUR ☺</b>
	<b>CONDITIONS TO AVOID</b>
<b>SPILL ORLEAK PROCDFURES</b>	<b>STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED</b> Remove all ignition sources and evacuate area if significant vapor concentration occurs. Ventilate area. Person wearing appropriate protective equipment may then enter the area and contain large spills with dikes, pump to salvage tank if possible and flush the spill area with water or absorb in an inert material.
	<b>DISPOSAL METHOD</b> Under RCRA, this product exhibits the characteristics of ignitability (D001) and is regulated as a hazardous waste. Dispose of at a permitted facility, preferrably by incineration.
	THRESHCLD LIMIT VALUE

HEALTH HAZAARD DATA	(PERMISSIBLE EXPOSURE LIMIT)=65ppm (208mg/M <sup>3</sup> ) calculated value (NE 100ppm; 1-NP, 25ppm; TLV and PEL)
	EFFECTS OF OVEREXPOSURE
	<p>Liquid : Prologed exposure to skin can lead to mild irritation due to "defatting." Only slightly toxic by ingestion.</p> <p>Vapor : Headache, nausea, vomiting, narcosis. Chronic overexposure may liver and kidney damage.</p>
FIRE AID	<p>EYE : Flush eye with a large amount of water for 15 minutes. See a physician.</p>
	<p>SKIN : Wash exposed skin with soap and water. Launder clothing wet with NP 280. Discard contaminated shoes.</p>
	<p>INHALATION : Remove to fresh air, If breathing has stopped, perform artifical respiration.</p>
	<p>INGESTION : Introduce vomiting by giving victim several glasses of water and having him touch</p>
PROTECTIVE EQUIPMENT	<p>VENTILATION Supply outside air and exhaust fans sufficient to meet the TV requirement. Use local exhaust for any operation releasing excessive vapors.</p>
	<p>RESPIRATORY PROTECTION Air-supplied respirator or self-contained breating apparatus in areas of high vapor concentration. Do not use canister type masks.</p>
	<p>PROTECTIVE CLOTHING Wear rubber gloves and/ or apron.</p>
	<p>EYE PROTECTION Safety goggles in situations where liquid NP 280 might be splashed in the eyes.</p>
OTHER SPECIAL PRECAUTIONS	<p>PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE Keep away from heat, sparks and flames. Keep container closed. Avoid stroring NiPar 280 in direct sunlight if possible.</p>
	<p>SPECIAL COMMENTS Use only with adequate ventilation. Dry NP 280 may be stored in ordinary steel. Wet np 280 (&gt;0.2% water) should be stored in stainless steel or aluminum to avoid a buildup of color and sediment (rust)</p>

Prepared  
by \_\_\_\_\_

Lori J. Quinn

Date \_\_\_\_\_