

## Material Safety Data Sheet U. S. Department of Labor

May be used to comply with Occupational Safety and Health Administration  
OSHA's Hazard Communication Standard, (Non-Mandatory Form)  
29 CFR 1910.1200. Standard must be Form Approved  
consulted for the specific requirements. OMB No. 1218-0072

IDENTIFY (As used on label) NN Brush Kleen			
<b>Section I</b>			
Manufacture's Name PNI WorldWide		Emergency Telephone Number 1-800-535-5053 <small>(International Number)</small> 813-960-7280	
Address (Number, Street, City, State and ZIP Code) 5454 West Crenshaw Street		Telephone Number for Information SAA	
Tampa, FL 33634		Date Prepared 03/21/08	
<b>Section II – Hazardous Ingredients/Identity Information</b>			
Hazardous Components (Specify Chemical Identity: Common Name(s) OSHA PEL ACGIH TLV Other Limits Recommended % Optional)			
Ethyl Acetate 141-78-6 95-100%			
Warning! Flammable Liquid and Vapor			
<b>Section III – Physical/Chemical Characteristics</b>			
Boiling Point	172°F	Specific Gravity (H2O =1)	0.90 @ 20°C

Vapor Pressure (mm Hg)	75 @ 20°C	Melting Point	-117°F
Vapor Density (AIR = 1)	3.0	Evaporation Rate (Butyl Acetate = 1)	4.1
Octanol/Water Partition Coefficient	Log P = 0.73, P = 5.4	Autoignition temperature	905°F

Solubility in Water:  
moderate @ 25°C

Appearance and Odor:  
Clear liquid – sweet ester odor (threshold 3.9ppm)

### Section IV – Fire and Explosion Hazard Data

Flash Point (Method Used) -4°C (24°F)(T.C.C.)	Flammable Limits Ethyl acetate	LEL 2.0%	UEL 10.7%
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Extinguishing Media:  
CO<sub>2</sub>, alcohol foam, dry chemical, water spray

Special Fire Fighting Procedures:  
Wear self-contained breathing gear and protective clothing. Use water spray to keep fire-exposed containers cool. Water may be ineffective in fighting a fire and spread it.

Unusual Fire and Explosion Hazards:  
Direct water jet will spread burning material. Danger or flashback exists if fumes reach a source of ignition. Cool sealed drums with water spray to lessen chance of rupture. Fumes are toxic.

### Section V – Health Hazard Data

Threshold Limit Value:  
OSHA (ethyl acetate) PEL 400PPM TWA; ACGIH, 400PPM TWA

Effects of overexposure:  
Ingestion: irritating to gastrointestinal tract. Symptoms may include nausea, vomiting and diarrhea. Inhalation – may cause irritation of respiratory tract. Exposure to high concentrations may have a narcotic effect and may cause liver and kidney damage.

Skin and eyes – moderately irritating on contact. May cause redness and pain. Repeated contact with skin may cause cracking and Dermatitis.

Emergency and First Aid Procedures:

Ingestion: Give lukewarm water (pint). Do not induce vomiting. Keep individual calm. Obtain medical attention.

Inhalation: Remove to fresh air (oxygen or artificial respiration if needed). Obtain medical attention if symptoms persist.

Skin: Wash with soap and water. Remove contaminated clothing and shoes. Seek medical attention if symptoms occur. Wash contaminated clothing before re-use. Discard contaminated shoes.

Eyes: Flush eyes with plenty of water for at least five minutes. Get medical attention if symptoms persist.

## Section VI – Reactivity Data

Stability	Unstable		Conditions to Avoid
	Stable	X	

Incompatibility (*Materials to avoid*)

Strong oxidizers, sources of ignition. Will attack some plastics.

Hazardous Decomposition Products:

Carbon Dioxide and Carbon Monoxide.

Hazardous Polymerization	May occur		Conditions to Avoid:
	Will not occur	X	

## Section VII – Spill or Leak Procedures

Steps to be taken in case material is to be released or spilled:

Eliminate all sources of ignition. Permit only properly protected workers with skin and eye protection and self-contained breathing gear. Absorb small spills with non-flammable absorbent material and place in a container for chemical waste. Pump large spills into salvage tanks. Prevent runoff from entering drains, sewers or streams.

Waste Disposal Method:

Classified as hazardous waste under RCRA U112. Dispose in accordance with EPA and local regulations.

## Section VIII – Special Protective Information

Respiratory Protection (*Specify Type*)

Above TLV. NIOSH/MESSA approved respirator. Compliance with OSHA standard 29CFR 16910.134

Ventilation Ventilation rates should be matched to conditions.	Local Exhaust Recommended	Special None
	Mechanical	Other None

Protective Gloves:

Resistant plastic or rubber

Eye Protection:

Chemical splash goggles recommended.

Other Protective Equipment:

Protective plastic or rubber apron.

## Section IX – Special Precautions

Precautions to be taken in handling and storing:

Store in a cool, dry place in a tightly closed container.

Other Precautions:

Keep away from excessive heat and flame. Keep container closed when not in use. Keep well ventilated. Avoid contact with eyes. Avoid vapors. Keep away from children.

## Section X – Toxicological Information

Acute Toxicity: Oral LD-50 (rat) 5.6g/kg; Inhalation LC-50 (rat) 16,000ppm/6 hours

**Section XI – Regulatory Information**

All ingredients are listed or exempt from listing on the TSCA Inventory

Estimated HMIS Code: Health Hazard (1) Fire Hazard (3) Reactivity (0)

**Section XII – Transportation Information**

DOT (49 CFR 172) UN#: 1173

Proper Shipping Name: Ethyl Acetate Packaging Group: II

Hazard Classification: 3 Hazard Label Required: Flammable Liquid

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