

# Material Safety Data Sheet

Product Name: Permalac Clear Protective Lacquer

## SECTION 2

Hazardous Ingredients				
Hazardous Component (s)	CAS Number	OSHA PEL	ACGIH TLV	Weight Percent
Toluene:	108-88-3	200.00	200 ppm TWA	<85%
N-Butyl Acetate	123-86-4	150.00	150 ppm TWA	<5%

## SECTION 3

### PHYSICAL & CHEMICAL CHARACTERISTICS

Boiling Point: 231-350F  
Specific Gravity (water=1): N/A  
Vapor Pressure (mm Hg): Toluene-22.0 N-Butyl acetate-14.0  
Vapor Density (Air=1): Is heavier than air.  
Solubility in Water: Slight Reactivity in Water: None  
Appearance and Odor: Clear liquid solvent.  
Melting Point: N/A  
Volatile by Weight: 84.9%  
Volatile by Volume: 88.0%  
VOC: Not more than 6.49 lbs/gal. Or 778 g/l  
The above data are approximate or typical values and should not be used for precise design purposes.

## SECTION 4:

### FIRE & EXPLOSION DATA

Flash Point: 45F Method Used: Selaflash closed cup  
Flammable Limits in Air % by Volume: LEL 1.0%  
UEL 12.5%  
Auto-Ignition Temperature: N/A  
Extinguisher Media: Dry chemical, carbon dioxide foam

Special Fire Fighting Procedures: Use NIOSH/MSHA approved gas mask for fire fighting personnel. Water may be used to cool containers. If water is used fog nozzles are preferred.  
Unusual Fire and Explosive Hazards: Keep containers tightly closed. Vapors may migrate to ignition source and cause flash fire. Isolate from heat, sparks, electrical equipment, appliances, pilot lights, flames and other sources of ignition. Flammable liquid and vapor.

## SECTION 5

### PHYSICAL HAZARDS (REACTIVITY DATA)

Stability: Stable  
Incompatibility (Materials to Avoid): Strong oxidizing agents avoid contact with heat, flames and sparks.  
Hazardous Decomposition Products: N/A  
Hazardous Polymerization: Will not occur under normal conditions.  
Conditions to Avoid: None.

**SECTION 6  
HEALTH HAZARDS**

Acute:

Chronic:

Signs and Symptoms of Exposure: Breathing of high vapor concentrations may produce narcosis. Liquid may cause minor skin irritation and definite eye irritation. Causes nose and throat irritation. Causes eye irritation. Causes skin irritations.

Medical Conditions Generally Aggravated by Exposure: Repeated and prolonged overexposure to solvents could cause permanent brain and nervous system damage. Intention misuse by deliberately concentrating & inhaling contents may be harmful or fatal.

Chemical Listed as Carcinogen or Potential Carcinogen:

National Toxicology Program: No

I.A.R.C. Monographs: No

OSHA: No

Emergency and First Aid Procedures:

Inhalation: Remove to fresh air, restore breathing. Consult a physician.

Skin Contact: Flush with water then wash skin thoroughly with soap and water. Consult a physician.

Eye Contact: flush immediately with large amounts of water for at least 15 minutes. Consult a physician.

Ingestion: Get medical attention immediately.

**SECTION 7  
SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES**

Precautions to be taken in handling and storage: Store away from heat, sparks and open flame. Avoid prolonged skin contact. Do not breath spray mist. Store in cool dry area with ventilation suitable for storing materials shown in section 2.

Other Precautions: Ground containers while pouring. Avoid spontaneous combustion of contaminated rags or other organic materials. Empty containers may retain hazardous properties and can be dangerous.

Steps to be taken in case material is released or spilled: In case of spoilage absorb with inert material and dispose of in accordance regulations of E.P.A. and other local, state, and federal authorities.

Waste disposal methods (Consult federal, state, and local regulations): Place in closed containers. Dispose of product in accordance with local, country, state, and federal regulations.

**SECTION 8  
SPECIAL PROTECTION INFORMATION/CONTROL MEASURES**

Respiratory Protection (specify type): NIOSH/OSHA approved respirator types suitable for materials in section 2 recommended. Approved chemical/mechanical filters recommended when ventilation is restricted. Do not breathe (dust, vapors or spray mist). Wear appropriate, respirator (NIOSH/MSHA approved) during & after application unless air monitoring records vapor/mist levels below applicable limits. Follow respirator manufacturer directions for use.

Ventilation: Sufficient ventilation, in volume and pattern, should be provided to keep air contamination below current applicable OSHA permissible exposure limit or ACGH's TLV limit. Use with adequate ventilation.

Protective Gloves: Chemical resistant plastic or rubber.

Eye Protection: Chemical goggles with side shields or face shield recommended.

Other Protective Clothing or Equipment: As required to avoid wetting clothing. Use protective creams where skin contact is likely. Remove and wash contaminated clothing before reuse. Eye bath and safety shower.

Work/Hygienic Practices: Do not get in eyes, on skin or on clothing. Wash thoroughly after handling.

**SECTION 9  
TRANSPORTATION**

Proper Shipping Name: Paint

Hazard Class: Flammable, PG II

Label: Flammable UN 1263

**SECTION 10  
OTHER INFORMATION**

This product contains one or more materials subject to the reporting requirements of section 313 of the Emergency Planning and the Community Right-To-Know Acts of 1986 and of 40CFR 372.

**"The information herein is given in good faith, but no warranty, express or implied, is made."**