

# MATERIAL SAFETY DATA SHEET

Perma-New™ V-17

California Hardcoating Co.  
3517 Main St., Unit 303, Chula Vista, CA 91911  
(619) 498-0098 Fax: (619) 498-0709  
In case of emergency, call: (619) 370-8789

## I) PRODUCT INFORMATION

Product Name: **Perma-New™ V-17** UV-curable Hardcoating Solution.  
Generic Description: Acrylate monomer blend in solvent mixture.  
DOT/IATA Shipping Name: Resin Solution ID Number: UN 1866  
Hazard Class: 3, Flammable Liquid Packing Group: II

## II) CHEMICAL COMPOSITION – HAZARDOUS INGREDIENTS

CAS No.	Name	Conc.	TWA
67-63-0	Isopropanol	10-50%	200
141-78-6	Ethyl acetate	10-25	400
71-36-3	n-Butanol	2.5-10	100
123-86-4	n-Butyl acetate	0-1	150
101-02-01	Triphenyl phosphite	0-1	-

## III) PHYSICAL PROPERTIES

BOILING POINT: 221°F (105°C)  
MELTING POINT: N/A SOLUBILITY IN WATER: Not soluble  
SPECIFIC GRAVITY: Approx. 0.98 PERCENT VOLATILE: Approx. 51% pH: N/A  
APPEARANCE AND ODOR: Clear or yellowish, mobile liquid; sweet odor. Eye-irritating vapors may be present at elevated liquid temperatures.

## IV) FIRE AND EXPLOSION

FLASH POINT: < 45°F (<7°C) LEL: 1% est. UEL: 19% est.  
EXTINGUISHING MEDIA: Foam, dry chemical, water fog or CO2. Do not use a direct stream of water. Product may float and can be reignited on surface of water.  
SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS: Wear pressure-demand self-contained breathing apparatus with helmet, face shield (preferably with the SCBA apparatus protecting the eyes), bunker coat, gloves and rubber boots. Cool fire-exposed containers.  
UNUSUAL FIRE AND EXPLOSION HAZARDS: This material is a flammable liquid and a fire hazard when exposed to heat or flame. Containers exposed to excessive heat may burst due to vapor pressure build-up and/or from heat-induced weakening of the container.

## V) REACTIVITY DATA: REACTIVITY (NFPA): 0

STABILITY: Stable.  
STORAGE CONDITIONS TO AVOID: High temperatures, direct sunlight or UV light.  
INCOMPATIBILITY (Materials to avoid): Strong oxidizing or reducing agents can cause an exothermic reaction. Oxygen scavengers or inert “blanketing” gases may cause/allow hazardous reaction in bulk material to occur. Avoid contact with or contamination by metals other than stainless steel.  
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide and carbon dioxide gas, acrid/noxious fumes or smoke consisting of incompletely burned carbon products.  
HAZARDOUS POLYMERIZATION: May occur, if contaminated or irradiated in bulk.

## VI) HEALTH HAZARD INFORMATION

**EFFECTS OF EXPOSURE:** Likely to irritate skin and eyes. May be harmful by inhalation, ingestion or skin absorption. Susceptible individuals may become sensitized (i.e., allergic) upon repeated skin exposure. Aerosols or vapors generated during processing, especially at elevated temperature, will irritate eyes and may cause respiratory tract irritation.

**THRESHOLD LIMIT:** See data for solvents present. No data available for non-volatiles.

**EMERGENCY AND FIRST AID PROCEDURES:** Skin and eyes- flush with water. Seek medical treatment. Inhalation- Remove to fresh air and obtain medical attention.

If swallowed- do not induce vomiting. Call a physician.

## VII) CONTROL MEASURES

**RESPIRATORY PROTECTION:** Organic vapor type.

**VENTILATION:** Local exhaust: recommended.

Mechanical (general): recommended.

Special/Other: none known.

**PROTECTIVE GLOVES:** Rubber or plastic recommended.

**EYE PROTECTION:** Chemical worker's goggles.

**OTHER PROTECTIVE EQUIPMENT:** As required by your company.

## VIII) ENVIRONMENTAL AND DISPOSAL INFORMATION

There are no data available on ecological considerations for the formulation. Do not allow the product to enter drains or surface waters.

**Spill or Leak Procedures:** Use an all purpose liquid-absorbent material to collect and contain material for salvage or disposal.

## IX) ADDITIONAL INFORMATION

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:** Product is flammable. Use appropriate care. **OTHER PRECAUTIONS:** Product cannot be made non-injurious to health. **THIS DATA IS OFFERED IN GOOD FAITH AS TYPICAL VALUES AND NOT AS A PRODUCT SPECIFICATION. NO WARRANTY, EITHER EXPRESS OR IMPLIED, IS HEREBY MADE. THE RECOMMENDED INDUSTRIAL HYGIENE AND SAFE HANDLING PROCEDURES ARE BELIEVED TO BE GENERALLY APPLICABLE. HOWEVER, EACH USER SHOULD REVIEW THESE RECOMMENDATIONS IN THE SPECIFIC CONTEXT OF THE INTENDED USE AND DETERMINE WHETHER THEY ARE APPROPRIATE.**

## X) MANUFACTURER / SUPPLIER INFORMATION

California Hardcoating Co.  
3517 Main St. Ste. 303  
Chula Vista, CA 91911  
(619) 498-0098 Fax: (619) 498-0709  
Issued: 7/10/14.

Emergency Telephone Number: (619) 370-8789