

**MSDS.453 – PROTEC-ALL™ Polyurethane Finish**

Revised: 3.12.10

**EMERGENCY ASSISTANCE**

**For Chemical Emergency Spill, Leak, Fire or Exposure call 24 hours a day: CHEMTREC (800) 424-9300. Outside the U.S. call (703) 527-3887 (Collect calls accepted).**

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME: PRO-TEC-ALL™ Polyurethane Finish  
 TRADE NAME: PROTECT-ALL™  
 PRODUCT CLASS: Single component, waterborne polyurethane  
 C.A.S. NUMBER: Mixture  
 HMIS Rating: Health 1 Fire 0 Reactivity 0  
 0= least, 1= slight, 2= moderate, 3= high, 4= extreme

SECTION II - INGREDIENTS

INGREDIENTS	CAS#	MAX. CONTENT%	EXPOSURE LIMITS
Methyl-2-Pyrrolidone	872-50-4	30-35%	N/A
Homopolymer of HDI	2182-81-2	3-5%	N/A
N-Diethylethanamine	121-44-8	3-5%	N/A

SECTION II PHYSICAL DATA

APPEARANCE: Milky white  
 ODOR CHARACTERISTIC: Light acetic odor  
 SPECIFIC GRAVITY: 1.08  
 VAPOR DENSITY: Heavier than air  
 BOILING POINT: 212° F  
 SOLUBILITY IN WATER: Dilutable  
 VOLATILITY %: 45-50% by weight  
 EVAPORATION RATE: Less than Butyl Acetate

SECTION III - FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION: N/A  
 FLASH POINT: N/A  
 LEL: N/A  
 EXTINGUISHING MEDIA: Water, CO2 or dry chemical  
 UNUSUAL FIRE AND EXPLOSIVE HAZARDS: None known  
 SPECIAL FIREFIGHTING PROCUDURES: Wear self-contained breathing apparatus

SECTION IV - HEALTH HAZARD DATA

PERMISSIBLE EXPOSURE LEVEL: There is no ACGIH TLV and OSHA PEL for the modified acrylic polymer in this product.

## EFFECTS OF OVEREXPOSURE:

- INHALATION: Headache, nausea, irritation of the nose, throat and lungs, vomiting
- SKIN CONTACT: May cause slight irritation
- EYE CONTACT: May cause irritation
- INGESTION: Cause nausea, dizziness and vomiting.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY OVER EXPOSURE: May cause irritation to respiratory tract.

PRIMARY ROUTE(S) OF ENTRY: Inhalation, eye. Ingestion is not a normal hazard in industrial use.

## EMERGENCY FIRST AID PROCEDURES:

- INHALATION OVEREXPOSURE: Move to fresh air. If breathing stops, give artificial respiration and seek immediate medical attention.
- EYE CONTACT: Flush with large quantities of water for 15 minutes and seek medical attention.
- SKIN CONTACT: Wash thoroughly with soap and water immediately.

SECTION IV - HEALTH HAZARD DATA (continued)

- INGESTION: Do not induce vomiting. Obtain medical treatment immediately

## TOXICOLOGICAL INFORMATION &amp; LONG TERM EFFECTS OF OVEREXPOSURE:

There is no evidence of adverse effects to human exposed to levels at or below the AGCGIH TLV.

STABILITY:  
HAZARDOUS POLYMERIZATION:  
HAZARDOUS DECOMPOSITION PRODUCTS:  
of monomer and low levels of organic volatiles.  
CONDITIONS TO AVOID:  
INCOMPATIBILITY: (MATERIALS TO AVOID):

SECTION V - REACTIVITY

Stable  
Will not occur  
Combustion may yield yellow carbon monoxide and/or carbon dioxide and traces  
Keep from freezing  
None known

SECTION VI - SPILL OF LEAK PROCEDURES

STEPS TO TAKE IF MATERIAL IS RELEASED OR SPILLED: Provide good ventilation. Dike spill area and add absorbent material and place in closed container. liquid. Prevent this material from entering water supply.  
WASTE DISPOSAL METHOD: At this time, this material or its container is not considered hazardous waste as defined under the federal RCRA regulations (40 CFR 261) if discarded. Collect material into metal container and add enough water to cover. Dispose of according to local law.

SECTION VII - SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION: When spraying, use a NIOSH approves cartridge respirator to keep airborne mists vapor concentrations below the time weighted threshold limit values. When using in poorly ventilated areas, use a fresh air supplying respirator or a self-contained breathing apparatus.  
VENTILATION: General mechanical ventilation or local. Exhaust should be suitable to keep vapor concentrations below TLV. Ventilation equipment must be explosion proof.  
PROTECTIVE GLOVES: Impermeable chemical gloves for skin protection.  
EYE PROTECTION: Use chemical safety glasses, goggles/face shield for eye protection.  
HYGIENIC PRACTICES: Eye washes and safety showers are recommended in the work place.

SECTION VIII - SPECIAL PRECAUTIONS

HANDLING AND STORAGE: Do not store in temperatures over 120°F. Product contains low levels of organic volatile which may build up in unvented head space of storage carton. Ventilate sufficiently to keep limits of exposure below TLV's.  
OTHER PRECAUTIONS: Product may be damaged if allowed to freeze.

REGULATORY INFORMATION

TRANSPORTATION: Not regulated by US DOT  
CHEMICAL CONTROL LAWS: All components of this product are listed or are excluded from listing on the US Toxic Substances Control Act (TSCA) chemical substance inventory.  
SARA / TITLE III: This product contains (or is) a toxic chemical for routine annual chemical release reporting under section 33 Vinyl acetate (108-05-04).  
STATE RIGHT-TO-KNOW-LAWS: Any material listed as "not hazardous" in the CAS column of the ingredient information section of this MSDS is trade secret under the provisions of the Pennsylvania worker and community right-to-know act.