



**SECTION 1 – IDENTIFICATION**

**Product:**..... PHF SERIES PINNACLE CONVERSION VARNISH  
**Product Use:** ..... INDUSTRIAL COATING  
..... FOR INDUSTRIAL USE ONLY

**Manufacturer/Supplier:** ..... KATILAC COATINGS INC.  
391 HANLAN ROAD, UNIT #1, WOODBRIDGE, ONTARIO L4L 3T1

**Phone:**..... 905-856-6464 (Monday-Friday 8:00-4:00)  
840 APPLEBY LINE, BURLINGTON, ONTARIO L7L 2Y7

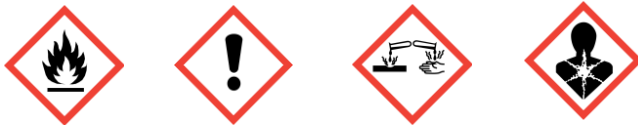
**Phone:**..... 905-637-2931 (Monday-Friday 8:00-4:00)  
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**SECTION 2 – HAZARDS IDENTIFICATION**

**GHS Classification:**  
Flammable Liquids (Cat. 3)  
Acute Toxicity Inhalation (Cat. 4)  
Skin Irritation (Cat. 2)  
Serious Eye Damage (Cat. 1)  
Skin Sensitizer (Cat. 1A)  
Carcinogenicity (Cat. 1B)  
Specific Target Organ Toxicity- Single Exposure (Cat. 3) - Central Nervous System

**GHS Label Elements:**

**Pictogram:**



**Signal Word:**..... **Danger**

**Target Organs:**  
Respiratory system, central nervous system, skin, eyes.

# Safety Data Sheet - PHF SERIES PINNACLE CONVERSION VARNISH

## Hazard Statement(s):

H226: Flammable liquid and vapour  
H332: Harmful if inhaled  
H315: Causes skin irritation  
H318: Causes serious eye damage  
H317: May cause an allergic skin reaction  
H350: May cause cancer  
H336: May cause drowsiness or dizziness

## Precautionary Statement(s):

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233: Keep container tightly closed.  
P240: Ground and bond container and receiving equipment.  
P241: Use explosion-proof electrical, ventilating, lighting and equipment.  
P242: Use non-sparking tools.  
P243: Take action to prevent static discharges.  
P261: Avoid breathing dust, fumes, mist, vapours or spray.  
P271: Use only outdoors or in a well-ventilated area.  
P264: Wash skin thoroughly after handling.  
P280: Wear protective gloves, protective clothing, eye protection.  
P362+P364: Take off contaminated clothing and wash it before reuse.  
P272: Contaminated work clothing should not be allowed out of the workplace.  
P201: Obtain special instructions before use.  
P202: Do not handle until all safety precautions have been read and understood.  
P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.  
P302+P352: IF ON SKIN: Wash with plenty of water.  
P333+P313: If skin irritation or a rash occurs: Get medical attention.  
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P312: Call a POISON CENTER or doctor if you feel unwell.  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310: Immediately call a POISON CENTER or physician.  
P308+P313: IF exposed or concerned: Get medical attention.  
P403+P235: Store in a well-ventilated place. Keep cool.  
P405: Store locked up.  
P370+P378: In case of fire: Use foam, water fog, dry chemical and/or carbon dioxide to extinguish.  
P501: Dispose of contents and container to comply with local, provincial, state, and federal regulations.

## SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENT	CAS NUMBER	% wt/wt
n-Butyl Acetate	123-86-4	15.00-40.00
Butanol	71-36-3	5.00-10.00
2-methoxy-1-methylethyl Acetate	108-65-6	1.00-5.00
1-methoxy-2-propanol	107-98-2	1.00-5.00
Isobutanol	78-83-1	5.00-10.00
Urea P/W Formaldehyde, isobutylated	68002-18-6	7.00-13.00
Formaldehyde	50-00-0	0.00-1.00
Melamine P/W Formaldehyde, butylated	68002-25-5	3.00-7.00

**SECTION 4 – FIRST-AID MEASURES**

**Inhalation:**

Remove source of contamination or move victim to fresh air. If breathing is difficult, trained personnel should administer emergency oxygen. If breathing is stopped, trained personnel should begin artificial respiration (AR) or, if the heart has stopped, immediately start cardiopulmonary resuscitation (CPR) or automated external defibrillation (AED). Quickly transport victim to an emergency care facility.

**Ingestion:**

Never give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. Do not induce vomiting. Have victim drink 60-240 mL (2-8 oz.) of water. If vomiting occurs naturally, have victim rinse mouth with water again. Obtain medical advice.

**Eyes:**

Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. If a contact lens is present, do not delay irrigation or attempt to remove the lens. Take care not to rinse contaminated water into the unaffected eye or onto the face. Immediately obtain medical attention.

**Skin:**

Avoid direct contact. Wear chemical protective clothing if necessary. As quickly as possible remove contaminated clothing, shoes, and leather goods (e.g. watchbands, belts) quickly and gently blot or brush away excess chemical. Immediately wash with lukewarm, gently flowing water for at least 30 minutes. Do not interrupt flushing. If necessary, and it can be done safely, continue flushing during transport to emergency care facility.

**Most Important Symptoms and Effects:**

May cause central nervous system (CNS) depression. CNS depression is characterized by headache, dizziness, nausea, vomiting and incoordination.

**Indication of Immediate Medical Attention and Special Treatment:**

Treatment based on sound judgement of physician and individual reactions of patient.

**SECTION 5 – FIRE-FIGHTING MEASURES**

**Suitable and Unsuitable Extinguishing Media:**

Foam, water fog, dry chemical, carbon dioxide. Do not use water jet.

**Specific Hazards Arising from the Product:**

Vapours and/or fumes from this product are heavier than air and may travel to a source of ignition and flash back causing explosion and fire. Never use welding or cutting torch on, or near drum (even empty) as product (even residue) can ignite explosively. All containers, including pails, drums, tank cars & trucks should be grounded and/or bonded when material is transferred. When using this product it is important that the gas at main leading to the premises must be shut off. All other ignition sources must be completely eliminated. In reference to the Ontario Fire Code Section 4.1.5.9(1), states that this product shall not be stored, handled or used in basements or pits.

**Hazardous Combustion Products:**

Carbon monoxide and/or carbon dioxide. Silicone compounds, formaldehyde, ammonia, nitrogen oxides.

**Special Fire Fighting Procedures:**

Use water spray to cool fire-exposed containers or structures. Keep upwind of fire. Wear self-contained breathing apparatus and full protective gear.

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

### **Personal Precautions, Protective Equipment and Emergency Procedures:**

Use personal protective equipment recommended in Section 8. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations.

### **Methods and Materials for Containment and Clean Up:**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Contain and dike spills. Absorb with inert material, place in a suitable container. Report and dispose of according to local regulations.

## SECTION 7 – HANDLING AND STORAGE

### **Precautions for Safe Handling:**

Use in a well ventilated area. Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use explosion-proof tools, equipment, and ventilation system. Keep away from sources of ignition. Take measures to prevent the build-up of electrostatic charge. Always ground and bond containers.

### **Conditions for Safe Storage:**

Keep container tightly closed in a dry and well-ventilated area. Containers which are opened must be carefully resealed and kept upright to prevent leakage and evaporation. Avoid extreme temperatures.

## SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

### **Threshold Limit Value:**

50 ppm ACGIH est. (n-Butyl Acetate)  
50 ppm ACGIH est. (Isobutanol)  
50 ppm ACGIH est. (1-methoxy-2-propanol)

### **Engineering Controls:**

Use local, mechanical, explosion proof exhaust and/or ventilation system to avoid exposure and vapour accumulation. Maintain exposure limits below the recommended thresholds.

### **Personal Protective Equipment:**

#### **Respiratory Protection:**

Where risk assessment shows air-purifying respirators are appropriate, use an approved respirator for the concentration and type of hazardous materials in the workplace. Use respirators and components tested and approved under the appropriate government standards. Use respirators as backup to engineering controls if necessary.

#### **Hand Protection:**

Handle with gloves to minimize skin contact. Inspect gloves prior to use. Use proper glove removal technique (without touching the glove's outer surface) to avoid skin contact with product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash hands thoroughly.

#### **Eye Protection:**

Safety glasses with side shields and/or face shield. Use equipment for eye protection tested and approved under the appropriate government standards.

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### Protective Clothing:

Impervious clothing, flame retardant, antistatic protective clothing. The type of protective equipment should be selected according to the concentration and amount of hazardous materials at each specific workplace.

### Additional Measures:

Handle in accordance with good industrial hygiene and safety practices. Wash hands before breaks and at the end of the workday. Do not eat, smoke or drink where material is handled, processed or stored.

## SECTION 9 – PHYSICAL / CHEMICAL PROPERTIES

**Physical State:** ..... Liquid  
**Colour/Odour:** ..... Clear, colourless with solvent odour  
**Melting/Freezing Point:** ..... Not available  
**Boiling Point:** ..... 118°C est. (Butanol)  
**Flammability:**..... Not available  
**Upper Flammable Limit:**..... 13.8% est. (1-methoxy-2-propanol)  
**Lower Flammable Limit:** ..... 1.4-1.7% est.  
**Flashpoint:** ..... 27°C C.C. est. (n-Butyl Acetate)  
**Autoignition Temp:**..... 277°C est.  
**Decomposition Temp:**..... Not applicable based on normal workplace conditions  
**pH:** ..... Not available  
**Viscosity (kinematic):**..... 30-35 seconds @ 25°C #4 Ford Cup  
**Solubility in Water:** ..... Not available  
**Partition Coefficient:** ..... n-octanol/water (logarithmic value) Not available  
**Vapour Pressure:**..... Not available  
**Density:**..... 0.9780 +/- 0.01 gms/cc @ 25°C  
**Vapour Density (AIR=1):** ..... Not available  
**Particle Characteristics:** ..... Not applicable  
**Evaporation Rate:** ..... Not available  
**Total VOC's:** ..... 475 g/L  
**% Non-Volatile:** ..... 53% +/- 2 w/w  
..... 47% +/- 2 w/v

## SECTION 10 – STABILITY AND REACTIVITY

### Reactivity:

No data.

### Chemical Stability:

Stable, except under fire conditions.

### Possibility of Hazardous Reactions:

No hazardous reactions expected under normal handling conditions.

### Conditions to Avoid:

Heat, flames and sparks, static / static discharge.

### Incompatible Materials:

Strong oxidizers, strong reducing agents, strong bases, potassium tert-butoxide, alkali hydroxide and alkali metals, halogens, strong acids, amines.

### Hazardous Decomposition Products:

Occurrence of decomposition products depend on temperature, air supply and presence of other materials. Carbon monoxide and/or carbon dioxide. Acetic acid, butyl alcohol, nitrogen oxide, ammonia, formaldehyde.

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## SECTION 11 – TOXICOLOGICAL INFORMATION

HAZARDOUS INGREDIENT	LD50	LC50	HRS
n-Butyl Acetate	10760 mg/kg	160-2000 ppm	4
Butanol	790 mg/kg	8000 ppm	4
2-methoxy-1-methylethyl Acetate	8532 mg/kg	not available	-
1-methoxy-2-propanol	6040 mg/kg	10000 ppm	5
Isobutanol	2460 mg/kg	>8000 ppm	4
Urea P/W Formaldehyde, isobutylated	>2000 mg/kg	>5 mg/L	4
Formaldehyde	100 mg/kg	250-478 ppm	4
Melamine P/W Formaldehyde, butylated	>5000 mg/kg	not available	-

**Likely Routes of Exposure:**

**Skin:** Can be absorbed. Can cause skin irritation.

**Eyes:** Severely irritating, may damage eyes.

**Inhalation:** Can cause central nervous system depression.

**Ingestion:** May be harmful if swallowed.

**Skin corrosion/irritation:**

Rabbit - skin irritation - 24 hour

**Serious eye damage/irritation:**

A component of this product tested: Rabbit - blindness - OECD test guideline 405

**Respiratory or skin sensitization:**

Classified as a skin sensitizer.

**Germ cell mutagenicity:**

Not expected to be mutagenic in humans.

**Carcinogenicity:**

IARC has classified Formaldehyde as a human carcinogen, Group 1.

**Reproductive toxicity:**

Not classified as a reproductive toxicant.

**Teratogenicity:**

No adverse effects are anticipated.

**Specific target organ toxicity (single exposure):**

May cause central nervous system depression.

**Specific target organ toxicity (repeated exposure):**

Not classified as a repeat exposure hazard.

**Aspiration hazard:**

Not classified as an aspiration hazard.

**Potential Health Effects:**

**Inhalation:**

Prolonged exposure to high vapour concentration can lead to central nervous system depression. Signs of this include headache, nausea, dizziness, blurred vision and incoordination.

**Ingestion:**

May cause gastrointestinal irritation, nausea, vomiting, diarrhea, headache, dizziness, fatigue, and central nervous system depression.

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**Skin:**

Prolonged and repeated contact can cause defatting and drying of the skin resulting in irritation and dermatitis.

**Eyes:**

Can cause severe irritation. Symptoms include stinging, tearing, redness, swelling and blurred vision. May cause conjunctivitis.

**Signs and Symptoms of Exposure:**

Can cause central nervous system effects, including dizziness, weakness, fatigue, nausea, headache, blurred vision and possible unconsciousness.

**Additional Information:**

May cause central nervous system (CNS) depression. CNS depression is characterized by headache, dizziness, nausea, vomiting and incoordination.

### SECTION 12 – ECOLOGICAL INFORMATION

**Ecotoxicity:**

LC50 (Pimephales Promelas) 18 mg/L, 96H, OECD Test Guideline 203, est. (n-Butyl Acetate)  
LC50 (Salmo Gairdneri) 100-180 mg/L, 96H, OECD Test Guideline 203, est. (2-methoxy-1-methylethyl Acetate)

**Persistence and Degradability:**

No data.

**Bioaccumulative Potential:**

No data.

**Mobility in Soil:**

No data.

**Other Adverse Effects:**

May be toxic to aquatic life. Prevent from entering drains, sewers, streams or other bodies of water. If runoff occurs, notify authorities as required.

### SECTION 13 – DISPOSAL CONSIDERATIONS

**Waste Disposal:**

Collect and reclaim or dispose in sealed containers at a licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Dispose of in accordance with all applicable regulations.

**Contaminated Packaging:**

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since empty containers may retain product residue, follow any label warnings even after container is emptied.

### SECTION 14 – TRANSPORTATION INFORMATION

**TDG Classification (Ground Only):** .....CLASS 3 UN1263 III

**Proper Shipping Name (Ground Only):** .....PAINT

*A scientific determination was concluded based on formulation ingredients on November 26, 2024 to define the Transportation of Dangerous Goods Classifications.*

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## SECTION 15 - REGULATIONS

This material is included on the DLS (Canadian Domestic Substance List) under the CEPA (Canadian Environmental Protection Act).

This material has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

This material meets TSCA (Toxic Substances Control Act) inventory requirements.

Contents of this SDS comply with the OSHA Hazard Communication Standard 29CFR 1910.1200

## SECTION 16 – OTHER INFORMATION

**Revision Date:**..... **November 26, 2024**

**Print Date:**..... **November 27, 2024**

**Version Number:**..... **6**

### LEGEND TO ABBREVIATIONS:

**CAS:** ..... **CHEMICAL ABSTRACT SERVICES**  
**IARC:** ..... **INTERNATIONAL AGENCY FOR RESEARCH ON CANCER**  
**LC:** ..... **LETHAL CONCENTRATION**  
**LD:** ..... **LETHAL DOSE**  
**TDG:** ..... **TRANSPORTATION OF DANGEROUS GOODS**  
**TLV:** ..... **THRESHOLD LIMIT VALUE**  
**VOC:** ..... **VOLATILE ORGANIC COMPOUND**

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