



**SECTION 1 – PRODUCT IDENTIFICATION AND COMPANY IDENTIFICATION**

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

**Phone:**..... 905-856-6464  
840 APPLEBY LINE, BURLINGTON, ONTARIO L7L 2Y7

**Phone:**..... 905-637-2931  
www.katilaccoatings.com

**Emergency Phone:**..... CANUTEC (24H)...1-888-CANUTEC (226-8832 North American use)  
.....1-613-996-6666 (International use)

**Poison Control:**..... 1-800-268-9017

**Revision Date:**..... March 6, 2020

**Print Date:**..... March 6, 2020

**Version Number:**..... 3

**Product:** ..... F9 SERIES PUREVAR FORMALDEHYDE FREE WHITE CONVERSION  
VARNISH

**Product Use:** ..... INDUSTRIAL COATING  
FOR INDUSTRIAL USE ONLY

**SECTION 2 – HAZARDS IDENTIFICATION**

**Emergency Overview**

**Target Organs:**

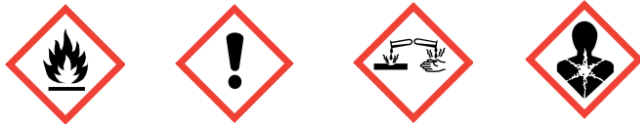
Skin, eyes, reproductive system, central nervous system, optic nerve.

**GHS Classification:**

Flammable Liquids (Cat. 2)  
Acute Toxicity Inhalation (Cat. 4)  
Skin Irritation (Cat. 3)  
Serious Eye Damage (Cat. 1)  
Reproductive Toxicity (Cat. 2)  
Specific Target Organ Toxicity- Single Exposure (Cat. 3) - Central Nervous System  
Specific Target Organ Toxicity- Single Exposure (Cat. 2) - Ingestion may damage optic nerve

**GHS Label Elements, including precautionary statements:**

**Pictogram:**



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

**Hazard Statement(s):**

- H225: Highly flammable liquid and vapour
- H332: Harmful if inhaled
- H316: Causes mild skin irritation
- H318: Causes serious eye damage
- H361: Suspected of damaging fertility or the unborn child
- H336: May cause drowsiness or dizziness
- H371: May cause damage to organs - ingestion may damage optic nerve

**Precautionary Statement(s):**

- P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking
- P233: Keep container tightly closed
- P240: Ground/bond container and receiving equipment
- P241: Use explosion-proof electrical/ventilating/lighting/equipment
- P242: Use only non-sparking tools
- P243: Take precautionary measures against static discharge
- P280: Wear protective gloves/protective clothing/eye protection/face protection
- P260: Do not breathe dust/fume/gas/mist/vapours/spray
- P271: Use only in a well-ventilated area
- P270: Do not eat, drink or smoke when using this product
- P264: Wash skin thoroughly after handling
- P202: Do not handle until all safety precautions have been read and understood
- P303+361+353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- P332+313: If skin irritation occurs: Get medical advice/attention
- P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- P312: Call a POISON CENTER or doctor/physician if you feel unwell
- P305+351+338: 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 doctor/physician
- P308+311: IF exposed or concerned: Call a POISON CENTER/doctor
- P403+235: Store in a well ventilated place. Keep cool
- P405: Store locked up
- P370+378: In case of fire: Use foam, water fog, dry chemical and/or carbon dioxide to extinguish
- P501: Dispose of contents/container to comply with local, provincial, state, and federal regulations

<b>SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS</b>
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<b>HAZARDOUS INGREDIENT</b>	<b>CAS NUMBER</b>	<b>%</b>
n-Butyl Acetate	123-86-4	10.00-30.00
Titanium Dioxide	13463-67-7	10.00-30.00
Ethanol	64-17-5	3.00-7.00
Methanol	67-56-1	0.50-1.50
1-methoxy-2-propanol	107-98-2	1.00-5.00
Nitrocellulose	9004-70-0	1.00-5.00
Isopropanol	67-63-0	1.00-5.00
Butanol	71-36-3	3.00-7.00
Glyoxal	107-22-2	0.00-0.25

*Refer to Section 8 for Occupational Exposure Guidelines.*

<b>SECTION 4 – FIRST-AID MEASURES</b>
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**Inhalation:**

This product is (extremely) flammable. Take proper precautions (e.g. remove any sources of ignition). 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. Have victim rinse mouth thoroughly with water. 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. Immediately obtain medical attention.

**Eyes:**

Quickly and gently blot or brush chemical off the face. Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for at least 30 minutes, while holding the eyelid(s) open. If a contact lens is present, do not delay irrigation or attempt to remove the lens. Neutral saline solution may be used as soon as it is available. Do not interrupt flushing. If necessary, continue flushing during transport to emergency care facility. Take care not to rinse contaminated water into the unaffected eye or onto face. Quickly transport victim to an emergency care facility.

**Skin:**

Remove contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Quickly and gently, blot or brush away excess chemical. Wash gently and thoroughly with lukewarm gently flowing water and non-abrasive soap for 5 minutes. If irritation persists, repeat flushing. Obtain medical advice. Completely decontaminate clothing, shoes and leather goods before reuse or discard.

**Note to Physician:**

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

<b>SECTION 5 – FIRE-FIGHTING MEASURES</b>
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**Extinguishing Media:**

Carbon dioxide, alcohol foam, water fog, dry chemical.

**Special Fire Fighting Procedures:**

Use water spray to cool fire-exposed containers or structures.

**Unusual Fire and Explosion Hazards:**

Avoid static discharge conditions. Vapours formed from this product may travel or be moved by air currents and ignited by pilot lights, light switches, other flames, smoking, sparks, heaters, electrical equipment, static discharges or other ignition sources at locations close or distant from the product. 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. Nitrogen oxide, silicone oxides.

**SECTION 6 – ACCIDENTAL RELEASE MEASURES**

**Personal Precautions:**

Use personal protective equipment. 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.

**Environmental Precautions:**

Prevent further leakage or spillage if safe to do so. Dike and contain spills. Do not let product enter drains.

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

Contain and/or dike spills. Absorb with inert material, place in a suitable container. Report and dispose of according to local regulations.

**SECTION 7 – HANDLING AND STORAGE**

**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.

**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.

**SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Threshold Limit Value:**..... 10 mg/m<sup>3</sup> ACGIH est. (Titanium Dioxide)

**Engineering Controls:**

Use local, mechanical, explosion proof exhaust and/or ventilation system to avoid exposure and vapour accumulation.

**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 and/or face shield. Use equipment for eye protection tested and approved under the appropriate government standards.

**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.

**SECTION 9 – PHYSICAL / CHEMICAL PROPERTIES**

**Physical State:** ..... Liquid  
**Appearance/Odour:** ..... White with solvent odour  
**Odour Threshold:** ..... Not available  
**Viscosity:** ..... 50-60 seconds #4 Ford Cup  
**Vapour Density (AIR=1):** ..... Heavier than air  
**Boiling Point:** ..... 74-79°C est.  
**Melting/Freezing Point:** ..... Not available  
**Vapour Pressure:** ..... Not available  
**Evaporation Rate:** ..... Not available  
**Specific Gravity:** ..... 1.1500 +/- 0.01 gms/cc @ 25°C  
**Solubility in Water:** ..... Insoluble  
**Total VOC's:** ..... 552 g/L  
**% Non-Volatile:** ..... 52% +/- 2 w/w  
..... 47% +/- 2 w/v  
**Coeff. Water/Oil Dist.:** ..... Not available  
**Flashpoint:** ..... 11°C C.C. est.  
**Autoignition Temp:** ..... 277°C est. (1-methoxy-2-propanol)  
**Upper Flammable Limit:** ..... 36.5% est. (Methanol)  
**Lower Flammable Limit:** ..... 1.60% est. (1-methoxy-2-propanol)

**SECTION 10 – STABILITY AND REACTIVITY**

**Stability:**

Stable.

**Hazardous Decomposition Products:**

Carbon monoxide and/or carbon dioxide. Acetic acid, butyl alcohol, nitrogen oxide.

**Materials to Avoid:**

Strong oxidizing agents, ammonia, strong reducing agents, strong bases, potassium tert-butoxide, alkali hydroxide, strong acids, amines.

**Hazardous Reactions:**

No data.

**Conditions to Avoid:**

Heat, flames and sparks.

<b>SECTION 11 – TOXICOLOGICAL INFORMATION</b>
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HAZARDOUS INGREDIENT	LD50	LC50	HRS
n-Butyl Acetate	10760 mg/kg	160-2000 ppm	4
Titanium Dioxide	>24000 mg/kg	6.82 mg/L	4
Ethanol	7060 mg/kg	31623 ppm	4
Methanol	5628 mg/kg	64000 ppm	4
1-methoxy-2-propanol	6040 mg/kg	10000 ppm	5
Nitrocellulose	>5000 mg/kg	not available	-
Isopropanol	>5840 mg/kg	30 mg/L	4
Butanol	790 mg/kg	8000 ppm	4
Glyoxal	2020 mg/kg	>10.5 mg/L	7

**Skin corrosion/irritation:**

Classified as a skin irritant.

**Serious eye damage/irritation:**

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

**Respiratory or skin sensitization:**

Not classified as a sensitization hazard.

**Germ cell mutagenicity:**

Not expected to be mutagenic in humans.

**Carcinogenicity:**

TiO<sub>2</sub> (Titanium Dioxide) is suspected of causing cancer. IARC has classified TiO<sub>2</sub> as 2B Possibly carcinogenic to humans. However, the only evidence of carcinogenicity is in rats exposed to very high concentrations. Two major epidemiology studies among titanium dioxide workers in the US and in EUROPE could not demonstrate an elevated lung cancer risk. (1,2,3.)

1. Boffetta et. al. Mortality among workers employed in the titanium dioxide production industry in Europe. *Cancer Causes Control*. 2004 Sep;15(7):697-706.

2. Fryzek et. al. A cohort mortality study among titanium dioxide manufacturing workers in the United States. *J Occup Environ Med*. 2003 Apr;45(4):400-9.

3. IARC Monographs on the Evaluation of Carcinogenic Risks to Humans. IARC Monographs, Volume 93 (Summary)

**Reproductive toxicity:**

May cause fetotoxic effects both in the presence and absence of maternal toxicity, based on animal studies.

**Teratogenicity:**

May cause teratogenic/embryotoxic effects at levels which are not maternally toxic.

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

May cause central nervous system depression. Ingestion may cause damage to the optic nerve.

**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. Some studies have linked titanium dioxide with chronic respiratory disease. Coatings risk is due primarily to inhalation of sanding dust or respirable particles in spray mist. Studies are inconclusive.

**Ingestion:**

Causes irritation, a burning sensation of the mouth and throat and abdominal pain. Can cause central nervous system (CNS) effects, including dizziness, vomiting and nausea. Contains Methanol. Cannot be made non-poisonous. Swallowing even small amounts of Methanol can cause blindness.

**Skin:**

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

**Eyes:**

May cause severe irritation, redness, tearing, blurred vision. Can injure eye tissue.

**Signs and Symptoms of Exposure:**

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

**Synergistic effects:**

No data.

**Additional information:**

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

<b>SECTION 12 – ECOLOGICAL INFORMATION</b>
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**Environmental Fate and Distribution:**

Prevent from entering drains, sewers, streams or other bodies of water. If runoff occurs, notify authorities as required.

**Aquaticity:**

LC50 (Pimephales Promelas) 18 mg/L, 96H, OECD Test Guideline 203, est. (n-Butyl Acetate)

**Persistence and degradability:**

No data.

**Bioaccumulative potential:**

No data.

**Mobility in soil:**

No data.

**Other adverse effects:**

May be toxic to aquatic life.

**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 II

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

*A scientific determination was concluded based on formulation ingredients on March 6, 2020 to define the Transportation of Dangerous Goods Classifications.*

**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**

**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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