



**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  
Revision Date:..... August 16, 2023  
Print Date:..... November 29, 2023  
Version Number:..... 7  
Product:..... KD SERIES DIAMOND CONVERSION VARNISH  
Product Use: ..... INDUSTRIAL COATING  
FOR INDUSTRIAL USE ONLY

**SECTION 2 – HAZARDS IDENTIFICATION**

**Emergency Overview**

**Target Organs:**

Respiratory system, central nervous system, eyes, reproductive system.

**GHS Classification:**

Flammable Liquids (Cat. 2)  
Acute Toxicity Inhalation (Cat. 4)  
Eye Irritation (Cat. 2)  
Carcinogenicity (Cat. 2)  
Reproductive Toxicity (Cat. 1B)  
Specific Target Organ Toxicity- Single Exposure (Cat. 3) - Central Nervous System

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

**Pictogram:**



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

## Safety Data Sheet - KD SERIES DIAMOND CONVERSION VARNISH

### Hazard Statement(s):

H225: Highly flammable liquid and vapour  
H332: Harmful if inhaled  
H319: Causes serious eye irritation  
H351: Suspected of causing cancer  
H360: May damage fertility or the unborn child  
H336: May cause drowsiness or dizziness

### 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  
P261: Avoid breathing dust/fume/gas/mist/vapours/spray  
P271: Use only in a well-ventilated area  
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  
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing  
P337+313: If eye irritation persists 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  
P308+313: IF exposed or concerned: Get medical advice/attention  
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

### SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

| HAZARDOUS INGREDIENT                 | CAS NUMBER | %           |
|--------------------------------------|------------|-------------|
| n-Butyl Acetate                      | 123-86-4   | 15.00-40.00 |
| Ethanol                              | 64-17-5    | 10.00-30.00 |
| Isopropanol                          | 67-63-0    | 1.00-5.00   |
| 1-methoxy-2-propanol                 | 107-98-2   | 1.00-5.00   |
| Nitrocellulose                       | 9004-70-0  | 3.00-7.00   |
| 2-heptanone                          | 110-43-0   | 0.10-1.50   |
| Melamine P/W Formaldehyde, butylated | 68002-25-5 | 7.00-13.00  |
| Di(2-ethylhexyl)Phthalate            | 117-81-7   | 1.00-5.00   |

*Refer to Section 8 for Occupational Exposure Guidelines.*

**SECTION 4 – FIRST-AID MEASURES**

**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. 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 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:**

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.

**SECTION 5 – FIRE-FIGHTING MEASURES**

**Extinguishing Media:**

Foam, water fog, dry chemical, carbon dioxide.

**Special Fire Fighting Procedures:**

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

**Unusual Fire and Explosion Hazards:**

Avoid static discharge conditions. 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. Nitrogen oxide.

**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:**..... 5 mg/m<sup>3</sup> ACGIH est. (Di(2-ethylhexyl)Phthalate)

**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.

## Safety Data Sheet - KD SERIES DIAMOND CONVERSION VARNISH

### 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:** ..... Clear, colourless with solvent odour  
**Odour Threshold:** ..... Not available  
**Viscosity:** ..... 25-30 seconds #4 Ford Cup  
**Vapour Density (AIR=1):** ..... Not available  
**Boiling Point:** ..... 78-79°C est.  
**Melting/Freezing Point:** ..... Not available  
**Vapour Pressure:** ..... Not available  
**Evaporation Rate:** ..... Not available  
**Specific Gravity:** ..... 0.9700 +/- 0.01 gms/cc @ 25°C  
**Solubility in Water:** ..... Not available  
**Total VOC's:** ..... 563 g/L  
**% Non-Volatile:** ..... 42% +/- 2 w/w  
..... 36% +/- 2 w/v  
**Coeff. Water/Oil Dist.:** ..... Not available

**Flashpoint:** ..... 11.7°C C.C. est. (Isopropanol)  
**Autoignition Temp:** ..... 277.8°C est. (1-methoxy-2-propanol)  
**Upper Flammable Limit:** ..... 13.8% est. (1-methoxy-2-propanol)  
**Lower Flammable Limit:** ..... 0.3% est. (Di(2-ethylhexyl)Phthalate)

## 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 oxidizers, strong reducing agents, strong bases, strong acids, potassium tert-butoxide, alkali hydroxide, chlorine, isocyanates, amines, alkalis.

### Hazardous Reactions:

No data.

### Conditions to Avoid:

Heat, flames and sparks.

**SECTION 11 – TOXICOLOGICAL INFORMATION**

| HAZARDOUS INGREDIENT                 | LD50          | LC50   | HRS |
|--------------------------------------|---------------|--|-----|
| n-Butyl Acetate                      | 10768 mg/kg   | 160-2000 ppm                                 | 4   |
| Ethanol                              | 7060 mg/kg    | 31623 ppm                                    | 4   |
| Isopropanol                          | >5840 mg/kg   | 30 mg/L                                      | 4   |
| 1-methoxy-2-propanol                 | 11700 mg/kg   | 19843 ppm                                    | 4   |
| Nitrocellulose                       | >5000 mg/kg   | not available                                | -   |
| 2-heptanone                          | 1600 mg/kg    | >16.7 mg/L                                   | 4   |
| Melamine P/W Formaldehyde, butylated | not available | not available                                | -   |
| Di(2-ethylhexyl)Phthalate            | 30000 mg/kg   | >10.62 mg/L                                  | 4   |
| .                                    | .             | 19.55% of total product has unknown toxicity | .   |

**Skin corrosion/irritation:**

Not classified as a skin irritant.

**Serious eye damage/irritation:**

Rabbit - eye irritation - 24 hour

**Respiratory or skin sensitization:**

Not classified as a sensitization hazard.

**Germ cell mutagenicity:**

Not expected to be mutagenic in humans.

**Carcinogenicity:**

IARC has classified Di(2-ethylhexyl)Phthalate as a possible human carcinogen, Group 2B. The data available from epidemiological studies is inadequate to evaluate the relationship between human cancer and exposure specifically to DEHP (IARC 1982).

**Reproductive toxicity:**

Components of this material have been shown to cause harm to the fetus in lab animal studies, including statistically reduced mean litter size and implantation sites. May cause fetotoxic and teratogenic effects at doses that are not maternally toxic.

**Teratogenicity:**

May cause fetotoxic and/or embryotoxic effects at levels which are not maternally toxic.

**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.

## Safety Data Sheet - KD SERIES DIAMOND CONVERSION VARNISH

**Skin:**

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

**Eyes:**

Causes moderate irritation, redness, tearing, swelling and blurred vision.

**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.

### SECTION 12 – ECOLOGICAL INFORMATION

**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)

LC50 (Pimephales Promelas) >0.67 mg/L, 96H est. (Di(2-ethylhexyl)Phthalate)

**Persistence and degradability:**

No data.

**Bioaccumulative potential:**

No data.

**Mobility in soil:**

No data.

**Other adverse effects:**

Toxic to aquatic life with potentially long lasting effects.

### 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 June 23, 2021 to define the Transportation of Dangerous Goods Classifications.*

# Safety Data Sheet - KD SERIES DIAMOND CONVERSION VARNISH

## 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

The information contained in this form is based on data from sources considered to be reliable but Katilac Coatings Inc. does not guarantee the accuracy or completeness thereof. The information is provided as a service to persons purchasing or using the material to which it refers and Katilac Coatings Inc. expressly disclaims all liability for loss or damage, including consequential loss, or for injury to persons (including death) arising directly or indirectly from reliance upon the information or use of the material.