

MATERIAL SAFETY DATA SHEET

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SECTION I - IDENTIFICATION

PRODUCT NAME: PRO-FINISH WHITE & BLACK LAQUER AEROSOL
PRODUCT CODE: PPD300, 301, 302, 313, 320, 321, 322, 340
MANUFACTURER'S NAME: DOVER FINISHING PRODUCTS
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WHMIS CODES: H: 2 F: 3 R:0 P:1

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SECTION II - HAZARDOUS INGREDIENTS

| NAME | CAS# | %WEIGHT | TLV / PEL | LD50 / LC50 |
|-----------------------------------|------------------|---------|---|--|
| ACETONE | 67-64-1 | 30-40 | TWA:750 STEL 1000 TWA: 1780 STEL 2380 MG/M3 FROM ACGIH | ORAL (LD50) ACUTE 3000 MG/KG (MOUSE). DERMAL (LD50) ACUTE 20000 MG/KG (RABBIT). VAPOR (LC50) 29853 PPM 4HRS (RAT) NOT AVAILABLE |
| PROPANE | 74-98-6 | 5-6 | OSHA PEL 1000 PPM | NOT AVAILABLE |
| ISOBUTANE | 25-1-9 | 3-4 | OSHA PEL 800 PPM | NOT AVIALABLE |
| EB ETHYLENE GLYCOL BUTYL ETHER | 111-76-2 | 0-1 | OSHA PEL 50 PPM | NOT AVIALABLE |
| GLYCOL ETHER PW | 107-982 | 0-1 | OSHA PEL 50 PPM | NOT AVAILABLE |
| BENZENE, METHYL- ACGIH | 108-88-3 | 4-8 | TWA:50 PPM (1993) TWA:147 MG/M3 FROM ACGIH | ORAL(LD50):ACUTE 2600 MG/KG (RAT). DERMAL (LD50) ACUTE:12210 MG/KG (RABBIT) VAPOR (LC50) ACUTE: 8000 PPM 4HRS (RAT) |
| METHANOL (RABBIT) | 67-56-1 ACGIH | 4-8 | TWA:200 (PPM) TWA:262 MG/M3 FROM ACGIH | ORAL(LD50): ACUTE 6200 MG/KG (RAT). DERMAL (LD50) ACUTE: 15800 MG/KG VAPOR (LC50) ACUTE 64000 PPM 4 HRS (RAT) |
| XYLENE | 1330-20-7 | 10-20 | TWA:100 STEL:150 PPM (1992) TWA:434 STEL 651 MG/M3 FROM ACGIH | ORAL (LD50)ACUTE 4300 MG/KG (RAT) DERMAL (LD50) ACUTE >2000 MG/KG (RABBIT) VAPOR(LC50): ACUTE 6700 PPM 4 HRS (RAT) |
| ISOBUTANOL | 78-83-1 | 4-8 | TWA: 50 PPM FROM ACGIH (TLV) 1993 | ORAL (LD50): ACUTE 2460 MG/KG (RAT) DERMAL (LD50) ACUTE 3400 MG/KG (RABBIT) |
| ISOPROPANOL | 67-63-0 1994 | 4-8 | TWA: 400 STEL:500 PPM FROM ACGIH (TVL) 1994 TWA 983 STEL1230 MG/M3 FROM ACGIH | ORAL (LD50) ACUTE 4721 MG/KG (RAT) DERMAL (LD50) ACUTE 13000 MG/KG (RABBIT) VAPOR LC50 ACUTE 16971 PPM 4 HRS (RAT) |
| N-BUTYL ACETATE | 123-86-4 | 4-8 | TWA:150 STEL:200 PPM | ORAL (LD50) ACUTE 14000 |

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|------------------------------------|-----------|-----|---|---|
| | | | 1994 | MG/KG (RAT) DERMAL (LD50) ACUTE 5000MG/KG (RABBIT) |
| ETHYL HYDROXIDE | 64-17-5 | 1-3 | TWA:1000 PPM FROM ACGIH (TLV) | ORAL (LD50) ACUTE 7060 MG/KG (RAT) VAPOR (LC50) ACUTE 8000 PPM 4HRS (RAT) |
| ETHYL ACETATE | 141-78-6 | 2-6 | TWA: 400 PPM | ORAL (LD50) ACUTE 5600 MG/KG (RAT) VAPOR (LC50) ACUTE 19596 PPM 4HRS |
| (RAT) -1-METHOXY-2- PROPANOL | 107-98-2 | 1-3 | TWA: 100 STEL 150 PPM | ORAL (LD50) ACUTE 5660 MG/KG (RAT) DERMAL (LD50) ACUTE 13000 MG/KG (RABBIT) GAS (LC50) ACUTE 15000 PPM 4HRS (RAT) |
| NITROCELLULOSE | 9004-70-0 | 4-6 | NOT AVAILABLE | NOT AVAILABLE |
| METHYL ISOBUTYL KETONE | 108-10-1 | 1-3 | TWA: 50 STEL: 75 PPM FROM ACGIH (TVL) 1994. TWA:205 STEL: 307 MG/M3 FROM 1994 | ORAL (LD50) ACUTE 2080 MG/KG (RAT) DERMAL (LD50) 20001 MG/KG (RABBIT) |
| | ACGIH | | | |

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SECTION III - PHYSICAL / CHEMICAL CHARACTERISTICS

BOILING RANGE: 56 DEG C - 171 DEG C **WEIGHT / GAL:** 3.15 KG
VAPOR DENSITY HEAVIER THAN AIR **EVAPORATION RATE:** SLOWER THAN ETHER
COATING V.O.C. NOT AVAILABLE **MATERIAL V.O.C.** NOT AVAILABLE
APPEARANCE AND ODOR: VISCOUS LIQUID WITH AN ODOR CHARACTERISTIC OF THE SOLVENTS LISTED IN SECTION II

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SECTION IV - FIRE AND EXPLOSION HAZARD DATA

THIS PRODUCT IS: FLAMMABLE, EXPLOSIVE, AND INSOLUABLE IN WATER
FIRE DEGRADATION PRODUCTS: THESE PRODUCTS ARE CARBON OXIDES (CO, CO2)
AUTOIGNITION TEMPERATURE: LOWEST KNOWN IS 137 DEG C (1-METHOXY-2PROPANOL)
FLASH POINT: -104 DEC C
FLAMMABLE LIMITS IN AIR BY VOLUME: LOWER: 1.8 UPPER 19.0 (ETHYL HYDROXIDE)
EXTINGUISHING MEDIA:
Use National Fire Protection Association (NFPA) Class B extinguisher. (CarbonDioxide, dry, chemical, or universal film forming foam) designed to extinguish NFPA flammable liquid fires.
SPECIAL FIREFIGHTING PROCEDURES:
Water spray may be ineffective. Water spray may be used to cool containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat. If water is used, fog nozzles are preferable. Fire fighters should wear self contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
Keep containers tightly closed. Isolate from heat, electrical equipment, sparks, and open flames. Closed containers may explode when exposed to extreme heat. Do not apply on hot surfaces. Do not weld on or near container. Toxic gases may form when product is contacted by flame or hot surfaces.

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SECTION V - REACTIVITY DATA

STABILITY: The product is unstable (nitrocellulose).

HAZARDOUS DECOMP. OR BYPRODUCTS: May produce hazardous decomposition products when heated. Welding, brazing, or flame-cutting on surfaces coated with this product may produce fumes including: Carbon Monoxide or Carbon Dioxide.

PRODUCTS OF DEGRADATION: Possible hazardous short term degradation products are not likely. However, long term degradation products may arise. The products of degradation are less toxic than the product itself.

CORROSIVITY: Not considered corrosive for metal and glass.

REACTIVITY: Highly reactive with oxidizing agents. Reactive with reducing agents, organic materials, metals, acids, alkalis, moisture. Non-reactive with combustible materials.

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SECTION VI - HEALTH HAZARD DATA

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE:

Vapor and spray mist may be harmful if inhaled. Vapor irritates eyes, nose, and throat. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Intentional misuse by deliberately inhaling the contents can be harmful or fatal.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE:

Eye contact: causes eye irritation. May be harmful if absorbed through the skin. Dryness, itching, cracking, burning, redness, and swelling are conditions associated with excessive skin contact.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: Harmful or fatal if swallowed.

HEALTH HAZARDS (ACUTE AND CHRONIC): Avoid long term and repeated contact.

EMERGENCY AND FIRST AID PROCEDURES: INGESTION: If swallowed, do not induce vomiting.

EYES: In case of eye contact, flush eyes immediately with plenty of water for at least 15 minutes.

SKIN: In case of skin contact, remove promptly by wiping, followed by waterless handcleaner and soap and water. INHALATION: If affected by inhalation of vapor or spray mist, remove to fresh air. Apply artificial respiration and other supportive measures as required. Get medical attention.

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SECTION VII - PREVENTIVE MEASURES

WASTE DISPOSAL: Waste material must be disposed of in accordance with Federal, Provincial, and Local environmental control regulations. Empty containers should be recycled or disposed of through an approved waste management facility.

STORAGE: Do not store above 48 deg. C. Keep in a cool well-ventilated place. Highly toxic materials should be stored in a separate locked safety cabinet or room.

PRECAUTIONS: Keep locked up. Keep away from sources of ignition. Do not ingest. Do not breathe fumes or vapor or spray. Take precautionary measures against electrostatic discharges. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately. Avoid contact with eyes and skin. Keep away from incompatibles such as oxidizing agents, reducing agents, organic materials, metals, acids, alkalis, moisture.

SPILLS OR LEAKS.

Small spill or leak. Absorb with an inert material and put the spilled material in an appropriate waste disposal container.

Large spill or leak. Provide maximum ventilation. Only personnel equipped with proper respiratory equipment should be permitted in the area. Remove all sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand, or other non-combustible material. Do not touch spilled material. Prevent entry into sewers, basements or other confined areas. Call local authorities for assistance on disposal.

PROTECTIVE CLOTHING IN CASE OF SPILL: Splash goggles. Full suit. Vapor and dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient, consult a specialist BEFORE handling this product.

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SECTION VIII - PROTECTIVE MEASURES

RESPIRATORY PROTECTION:

Overexposure to vapors may be prevented by ensuring ventilation controls, vapor exhaust or fresh air entry. If TLV of any component is exceeded, use an appropriate NIOSH / MSHA approved respirator. Follow respirator manufacturers directions for respirator use.

VENTILATION:

Provide sufficient mechanical and or local exhaust ventilation to keep the concentration of ingredients listed in section II below the lowest exposure limits.

PROTECTIVE GLOVES:

Use impermeable chemical handling gloves for skin protection.

EYE PROTECTION: Use Chemical safety glasses, goggles, faceshields for eye protection.

OTHER PROTECTIVE CLOTHING OR EQUIPEMENT:

Use impermeable aprons and protective clothing whenever possible to prevent skin contact. The use of head caps whenever possible is strongly recommended. Clean or dicard contaminated cltohing and shoes.

WORK / HYGIENIC PRACTICES

Eye washes and safety showers in the workplace are recommended.

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SECTION IX - DISCLAIMER

The information and recommendations contained herein are believed to be accurate at the time of the preparation or obtained from sources believed to be generally reliable. DOVER FINISHING PRODUCTS will not be held liable for claims relating to any party's use of, or reliance on information contained herein, regardless of whether it is claimed the information is inaccurate.