

# MATERIAL SAFETY DATA SHEET

OFFSET GLOSS OVERPRINT VARNISH

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## SECTION. 1 PRODUCT IDENTIFICATION

COMMON NAME ; Printing Binding Varnish  
PRODUCT NAME ; Kelly Knockout Binding Varnish

## SECTION. 2 HAZARDOUS INGREDIENTS

| COMPONENTS                         | CAS No.    | WT. % |
|------------------------------------|------------|-------|
| Hydrotreated Petroleum Hydrocarbon | 64742-46-7 | 29-32 |
| Rosin Modified Phenolic Resin      | 68082-96-2 | 34-37 |
| Tung Oil                           | 8001-20-5  | 32-35 |

Generally Classified as Non Toxic

## SECTION. 3 PHYSICAL DATA

|                                 |                                     |
|---------------------------------|-------------------------------------|
| APPEARANCE ; Viscous Liquid     | SPECIFIC GRAVITY ; 0.86-0.91 (25°C) |
| COLOR ; Slightly Light Brownish | BOILING POINT ; NE                  |
| ODOR ; Oily Odor                | VAPOR DENSITY ; NE                  |
| MOLECULAR WEIGHT ; NE           | VAPOR PRESSURE ; NE                 |
| PH ; NE                         | SOLUBILITY IN WATER ; Insoluble     |

## SECTION. 4 FIRE AND EXPROSION DATA

FLASH POINT ; 150-160°C (Open Air)  
FLAMMABLE LIMITS / UPPER ; NE LOWER ; NE  
EXTINGUISH MEDIA ; Water, Fog, Foam, Dry Chemical  
SPECIAL FIRE FIGHTING PROCEDURES ; Keep out of smoke. Self contained breathing apparatus is recommended.  
UNUSUAL FIRE AND EXPROSION HAZARDS ; NE

SECTION. 5 HEALTH HAZARD DATA

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EFFECTS OF OVEREXPOSURE

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INHALATION ; May cause respiratory irritation and dizziness.  
SKIN ; May cause irritation, defatting, allergic contact dermatitis and sensitization.  
EYE ; Will cause severe irritation.  
INGESTION ; May cause gastrointentional irritation, nausea, vomitting and diarrhea.

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EMERGENCY FIRST AID PROCEDURE

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INHALATION ; Move to fresh air. Aid in breathing and get medical attention, if necessary.  
SKIN ; Remove contaminated clothing and wash well with soap and water.  
EYE ; Flush with plenty water immediately for at least 15 min. and get medical attention.  
INGESTION ; Drink a large quantity of water. If available, milk is better. Get medical attention.

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SECTION. 6 REACTIVITY DATA

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STABILITY ; Stable  
CONDITION TO AVOID ; Heat, Spark, Open flame  
INCOMPATIBILITY ; May react with strong oxidizing agents.  
HAZARDOUS DECOMPOSITION PRODUCTS ; may evolve noxious fumes such as carbon oxide, nitrous oxide when involved in a fire burning.  
HAZARDOUS POLYMERIZATION ; Not expected.

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SECTION. 7 SPILL OR LEAK PROCEDURE

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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED AND SPILLED ; Wipe out and placed in a suitable covered container for disposal.  
DISPOSAL METHOD ; Dispose in accordance with local, country, state and federal regulation.

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SECTION. 8 PROTECTION MEASURES

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RESPIRATION ; Use respirator, if necessary.  
VENTILATION ; Use general and local exhaust ventillation.  
SKIN ; Rubber gloves is recommended.  
EYE ; Safety glasses is recommended.  
OTHER ; Use apron, coverall and boots, if necessary.

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SECTION. 9 SPECIAL PRECAUTIONS AND STORAGE DATA

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PRECAUTION IN HANDLING AND STORING ; Store in sealed container and keep away from high temperature (40°C<), direct sunlight and excessive moisture.  
AVERAGE SHELF LIFE ; 6 months or more

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NE ; Not Established.