

MSDS-0721
 REVISION: N/C
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MATERIAL SAFETY DATA SHEET

V I D E N T
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 Prepared by: *[Signature]*

SECTION I - PRODUCT IDENTIFICATION: DIE SEALER PEN

TRADE NAMES:
 VIDENT DIE SEALER PEN

CHEMICAL NAME:
 NITROCELLULOSE VARNISH IN ETHYL ACETATE/TOLUENE SOLUTION.

MSDS - 0721 APPLIES TO THE FOLLOWING VIDENT PRODUCTS (BY PART NUMBER) :

A41-351

INFORMATION PRESENTED HEREIN HAS BEEN COMPILED FROM SOURCES CONSIDERED TO BE DEPENDABLE AND IS ACCURATE AND RELIABLE TO THE BEST OF OUR KNOWLEDGE AND BELIEF. IT IS THE USER'S RESPONSIBILITY TO DETERMINE FOR HIMSELF THE SUITABILITY OF ANY MATERIAL FOR A SPECIFIC PURPOSE AND TO ADOPT SUCH SAFETY PRECAUTIONS AS MAY BE NECESSARY. WE MAKE NO WARRANTY AS TO THE RESULTS TO BE OBTAINED IN USING ANY MATERIAL AND, SINCE CONDITIONS OF USE ARE NOT UNDER OUR CONTROL, WE MUST NECESSARILY DISCLAIM ALL LIABILITY WITH RESPECT TO THE USE OF ANY MATERIAL SUPPLIED BY US.

SECTION II - HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

INGREDIENTS EITHER NOT CONSIDERED HAZARDOUS OR UNKNOWN (UNTESTED) (INCLUDE :

- acrylates copolymer
- alcohol
- nitrocellulose
- stearylalkonium hectorite
- sucrose benzoate/sucrose acetate isobutyrate copolymer

HAZARDOUS INGREDIENTS / OSHA:

INGREDIENT [CAS #]	OSHA PEL		ACGIH TLY	
	TWA (ppm)	TWA (mg/m ³)	TWA (ppm)	TWA (mg/m ³)
acrylamides copolymer (skin) * (79-06-1)	-	0.03	-	0.03*
alkyl sulfonic ester of phenol (108-95-2) (skin)	5.0	19.0	5.0	19.0
butyl acetate (123-86-4)	150.0 STEL=200	710.0 STEL=950	150.0 STEL=200	710.0 STEL=950
camphor (76-22-2)	2.0 STEL=3	12.0 STEL=18	2.0 STEL=3	12.0 STEL=18
diethyl phthalate (84-74-2)	-	5.0	-	5.0
ethyl acetate (141-78-6)	400.0	1400.0	400.0	1400.0
formaldehyde resin (30-00-0)	3.0 ceiling - 8ppm***	-	1.0* STEL=2	1.5* STEL=3
isopropyl alcohol (67-63-0)	400.0 STEL=500	580.0 STEL=1225	400.0 STEL=500	980.0 STEL=1225
toluene (108-98-3)	100.0 STEL=150	375.0 STEL=560	100.0 STEL=150	375.0 STEL=560
toluenesulfonamide*** (38-19-7)	-	-	-	-

CARCINOGENIC INGREDIENTS / OSHA: *ACGIH indicates ee suspected carcinogen. ** maximum peak over ceiling on 8hr shift in 10ppm for 30 minutes *** IARC assessment: suspected carcinogen.

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SECTION III — PHYSICAL AND CHEMICAL DATA

APPEARANCE AND ODOR: Clear liquid, strong odor.
 SOLUBILITY IN WATER: Partially soluble.
 BOILING POINT: approx. 80°
 VAPOR PRESSURE: approx. 59mm Hg at 20° C.
 VAPOR DENSITY: Greater than air.
 DENSITY: circa 0.9 g/cc.
 MELTING POINT: Not applicable.
 EVAPORATION RATE: (ether=) approx. 3.0

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: approx. -5° (closed cup).
 FLAMMABLE LIMITS:
 LEL: approx. 1.5% vol.
 UEL: approx. 8% vol.
 EXTINGUISHING MEDIA: Carbon dioxide foam.
 SPECIAL FIREFIGHTING PROCEDURES: None.
 UNUSUAL FIRE HAZARD: None.

SECTION V — REACTIVITY DATA

STABILITY: Thermally stable.
 MATERIALS TO AVOID: No special precautions indicated.
 HAZARDOUS POLYMERIZATION: Will not occur.
 HAZARDOUS DECOMPOSITION OF BY-PRODUCTS: None.

SECTION VI — HEALTH HAZARD DATA

ROUTES OF ENTRY: Skin, inhalation.
 HEALTH HAZARDS: No special health hazard if used as recommended.
 CARCINOGENICITY: No harm expected if used as recommended, although the following are suspected carcinogens:
 acrylamides copolymer, formaldehyde resin, toluene sulfonamide.
 SIGNS AND SYMPTOMS OF EXPOSURE: Unknown.
 EMERGENCY FIRST AID PROCEDURES: If skin or eye contact occur, wash with copious amounts of water and if irritation or pain persists, contact ophthalmologist.
 SPECIAL PRECAUTION: Keep out of reach of children; highly highly flammable material.

SECTION VII — PRECAUTIONS FOR SAFE HANDLING AND USE

CLEAN-UP PROCEDURES: Wipe up with absorbent material
 WASTE DISPOSAL METHOD: Allow to air harden and dispose as solid waste.
 HANDLING AND STORAGE PRECAUTIONS: Avoid proximity of open flame and exposure to elevated temperatures.

SECTION VII — CONTROL MEASURES

RESPIRATORY PROTECTION: Work in a well ventilated area.
 VENTILATION: Standard.
 EYE PROTECTION: None recommended if handled with care.
 PROTECTIVE CLOTHING: None recommended if handled with care.
 WORK/HYGENIC PRACTICES: None