

MATERIAL SAFETY DATA SHEET  
 FOR COATINGS AND RELATED MATERIALS  
 PREP: APRIL 2004 UPDATE: CURRENT

SECTION I PRODUCT IDENTIFICATION	24 HOUR EMERGENCY ASSISTANCE
PRODUCT NUMBER: MIL-PRF-81352 COMM. EQUIV.	EMERGENCY (360) 360-631-3171 INFORMATION (360) 2651-9050
PRODUCT NAME: SATIN LACQUER	HAZARD RATING   THIS PRODUCT
PRODUCT CLASS: NITROCELLULOSE SOLUTION	0 LOWEST   HEALTH 2 1   FLAMMABILITY 4 2   REACTIVITY 0 3   PERSONAL 4 EXTREME   PROTECTION G

SECTION II HAZARDOUS INGREDIENTS				
INGREDIENT	CAS NUMBER	PERCENT (BY WEIGHT)	OCCUPATIONAL EXPOSURE TLV (ACGIH)	PEL (OSHA)
ISOBUTYL ACETATE	110-19-0	9.40%	150ppm	150ppm
MINERAL SPIRITS	64742-89-8	8.52%	250ppm	250ppm
XYLENE	1330-20-7	5.00%	100ppm	100ppm
TOLUENE	108-88-3	25.13%	100ppm	200ppm
PHENYLETHANE	100-41-4	0.56%	100ppm	100ppm
METHYL ISOBUTYL KETONE	108-10-1	11.93%	50ppm	100ppm
n-BUTYL ALCOHOL	71-36-3	15.21%	50ppm	50ppm
ETHOXOLATE	763-69-9	6.05%	100ppm	100ppm
DIOCTYL PHTHLATE	117-81-7	0.46%	5mg/m3	5mg/m3

(DOP is identified as a carcinogen by NTP.)

"PURSUANT TO TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA) AND 40 CFR PART 372, THIS PRODUCT CONTAINS OR MAY CONTAIN A TOXIC CHEMICAL IN A QUANTITY SUBJECT TO THE REPORTING REQUIREMENTS UNDER SECTION 313"

SECTION III PHYSICAL DATA

BOILING RANGE: 160-340 F. WEIGHT/GALLON: 7.57 lbs. VAPOR PRESSURE: 70mmHg@20C  
 VAPOR DENSITY: HEAVIER THAN AIR: XX LIGHTER THAN AIR: \_\_\_\_\_  
 EVAPORATION RATE: FASTER THAN ETHER: \_\_\_\_\_ SLOWER THAN ETHER: XX  
 PERCENT ORGANIC VOLATILE BY VOLUME: 88.25% SOLUBILITY IN WATER: NIL  
 VOC: 798 GRAMS/LITER (LESS WATER) REACTIVITY IN WATER: NIL  
 APPEARANCE: Amber colored liquid (or color of tint) with aromatic, ketone odor.

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION: OSHA: FLAMMABLE FLASH POINT: 20 F.  
 CLASS: 3 % LEL: 1.1  
 DOT: FLAMMABLE UN NUMBER: 1263

EXTINGUISHING MEDIA: Foam, CO2, Dry Chemical, or Water Fog.  
 USE THE ABOVE OR ANY CLASS B EXTINGUISHING AGENT. WATER MAY BE UNSUITABLE AS AN EXTINGUISHING MEDIUM, BUT HELPFUL IN KEEPING ADJACENT CONTAINERS COOL.  
 SPECIAL FIREFIGHTING PROCEDURES: Firefighters and others exposed to vapors or products of combustion should wear self-contained breathing apparatus. Evacuate area of unprotected personnel. Wear protective clothing.  
 UNUSUAL FIRE AND EXPLOSION HAZARDS: Vapors may form an explosive mixture in air and may be ignited by sparks, pilot lights, etc. Closed containers may rupture when exposed to extreme heat.

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SECTION                    V:                                    HEALTH                                    HAZARD                                    DATA  
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EFFECTS OF OVEREXPOSURE:

SKIN: THIS MATERIAL MAY CAUSE IRRITATION, SENSITIZATION, OR DEFATTING OF SKIN UPON PROLONGED OR REPEATED CONTACT.

INHALATION: EXCESSIVE EXPOSURE TO VAPORS OR SPRAY MIST CAN RESULT IN HEADACHE, DIZZINESS, NAUSEA AND LOSS OF CONSCIOUSNESS.

SOME REPORTS HAVE ASSOCIATED REPEATED & PROLONGED OCCUPATIONAL OVEREXPOSURE TO SOLVENTS WITH PERMANENT BRAIN & NERVOUS SYSTEM DAMAGE.

EYES: THIS MATERIAL MAY BE AN EYE IRRITANT.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: NONE, WHEN USED IN ACCORDANCE WITH SAFE HANDLING INSTRUCTIONS. (SEE SECTION VIII)

EMERGENCY AND FIRST AID PROCEDURES:

SKIN: PROMPTLY WASH WITH SOAP AND WATER. REMOVE AND WASH ANY CONTAMINATED CLOTHING BEFORE REUSE.

EYES: FLUSH WITH LARGE QUANTITIES OF WATER FOR 15 MINUTES AND SEEK MEDICAL ATTENTION.

SWALLOWING: IF INGESTED DO NOT INDUCE VOMITING; KEEP PERSON WARM AND QUIET AND GET MEDICAL ATTENTION. ASPIRATION OF MATERIAL INTO

LUNGS CAN CAUSE CHEMICAL PNEUMONITIS WHICH CAN BE FATAL.

INHALATION: REMOVE VICTIM TO FRESH AIR IMMEDIATELY. IF RESPIRATORY SYMPTOMS DEVELOP, SEEK MEDICAL ATTENTION AT ONCE.

PRIMARY ROUTE(S) OF ENTRY: INHALATION, DERMAL, INGESTION.

CARCINOGENICITY: THIS PRODUCT CONTAINS NO KNOWN CARCINOGENS IN REPORTABLE QUANTITIES AS DEFINED BY ACGIH, OSHA, NTP, IARC.

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SECTION VI: REACTIVITY DATA  
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STABILITY: UNSTABLE: \_\_\_\_\_ STABLE: XX                                    HAZARDOUS POLYMERIZATION: MAY  
OCCUR: \_\_\_\_\_ WILL NOT OCCUR: XX

HAZARDOUS DECOMPOSITION PRODUCTS: INCOMPLETE COMBUSTION CAN YIELD CARBON MONOXIDE AND TOXIC VAPORS.

CONDITIONS TO AVOID: HEAT, SPARKS & OPEN FLAME. IF PRODUCT CONTAINS ALUMINUM, MOISTURE IN CLOSED CONTAINERS WILL GENERATE HYDROGEN GAS.

INCOMPATIBILITY: AVOID CONTACT WITH STRONG OXIDANTS, ACIDS, BASES AND EPOXY HARDENERS UNDER UNCONTROLLED CONDITIONS.

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SECTION VII: SPILL OR LEAK PROCEDURES  
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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: REMOVE ALL SOURCES OF IGNITION. VENTILATE AREA. ABSORB SPILL WITH AN ABSORBENT MATERIAL SUCH AS SAWDUST, VERMICULITE OR SAND AND PLACE MATERIAL INTO A CLOSED CONTAINER. IF LARGE SPILL, DIKE AREA TO PREVENT THIS MATERIAL FROM ENTERING WATER SYSTEMS OR SEWERS. WEAR PROTECTIVE EQUIPMENT DURING CLEANUP.

WASTE DISPOSAL METHOD: IF DISCARDED, THIS MATERIAL AND CONTAINERS SHOULD BE TREATED AS HAZARDOUS WASTE BASED ON THE CHARACTERISTICS OF IGNITABILITY AS DEFINED UNDER FEDERAL RCRA REGULATIONS (40 CFR 261). DISPOSAL OF THIS MATERIAL OR ITS CONTAINERS REQUIRES COMPLIANCE WITH APPLICABLE LABELING, PACKAGING AND RECORDKEEPING STANDARDS.

WASTE DISPOSAL: DISPOSE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL AGENCIES. GROUND HANDLING EQUIPMENT TO PREVENT SPARKS.

FOR FURTHER INFORMATION: CONTACT YOUR STATE OR LOCAL WASTE AGENCY OR THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY'S RCRA HOTLINE (1-800-424-9346 OR 1-202-382-3000).

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**SECTION VIII: SAFE HANDLING AND USE INFORMATION      KEEP OUT OF THE REACH OF CHILDREN**  
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RESPIRATORY PROTECTION: A CANISTER-TYPE RESPIRATOR MUST BE WORN TO PREVENT THE INHALATION OF VAPORS OR SPRAY MIST WHEN THE TLV OR PEL IS EXCEEDED.

VENTILATION: GENERAL VENTILATION IS REQUIRED DURING NORMAL USE. LOCAL VENTILATION MAY BE REQUIRED DURING CERTAIN OPERATIONS TO KEEP EXPOSURE LEVEL BELOW THE LIMITS LISTED IN SECTION II OF THIS DATA SHEET.

PROTECTIVE GLOVES: CHEMICAL RESISTANT NITRILE, NEOPRENE OR RUBBER GLOVES REQUIRED.

EYE PROTECTION: WEAR FACE SHIELD OR CHEMICAL GOGGLES.

OTHER PROTECTIVE EQUIPMENT: WEAR PROTECTIVE CLOTHING TO PREVENT SKIN CONTACT. EYE WASH STATION AND SAFETY SHOWER SHOULD BE AVAILABLE.

HYGIENIC PRACTICES: WASH HANDS BEFORE EATING OR SMOKING.

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**SECTION IX: SPECIAL PRECAUTIONS**  
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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: AVOID PROLONGED OR REPEATED INHALATION OF HEATED VAPORS OR SPRAY MIST. KEEP AWAY FROM HEAT OR OPEN FLAME. THIS MATERIAL MAY CAUSE SENSITIZATION. DO NOT GET IN EYES, ON SKIN OR CLOTHING. DO NOT ALLOW CONTAMINATED CLOTHING TO CONTACT SKIN. DO NOT WELD ON FULL OR EMPTY CONTAINERS. KEEP CONTAINERS CLOSED WHEN NOT IN USE, AND PROPERLY LABELED.

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**SECTION X: SUPPLEMENTAL INFORMATION**  
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THIS MATERIAL HAS BEEN CATEGORIZED AS HAVING THE FOLLOWING HAZARD(S) AS DEFINED BY SARA TITLE III REGULATIONS (40 CFR 370): ACUTE, FIRE

THE INFORMATION IN THIS DATA SHEET IS BELIEVED TO BE ACCURATE AND TRUE AT THE TIME OF PREPARATION OF THIS DOCUMENT. THIS IS NOT A WARRANTY OF PRODUCT OR PRODUCT SPECIFICATION. THE END-USER OF THIS PRODUCT IS ADVISED TO VERIFY IN ADVANCE THAT THE INFORMATION IN THIS SHEET IS CURRENT, APPLICABLE, AND SUITABLE TO THEIR CIRCUMSTANCES.