

MATERIAL SAFETY DATA SHEET
 FOR COATINGS, RESINS, AND RELATED MATERIALS
 REPLACES NPCA 1-82

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 12/05/90

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 10/08/90

SECTION I.---PRODUCT IDENTIFICATION

N/E-NOT ESTABLISHED

N/AP-NOT APPLICABLE

PRODUCT NUMBER: MS-160

PRODUCT NAME: MAJIC SPRAY
 CLEAR

H.M.I.S.
 H=2
 F=4
 R=0

PRODUCT CLASS: ACRYLIC, AIR DRY*AEROSOL ONLY*
 DOT: ORM-D

SECTION II.---HAZARDOUS INGREDIENTS

INGREDIENT	C.A.S.#	WEIGHT %	OCCUPATIONAL EXPOSURE LIMIT		VAPOR PRESSURE MMHG@20 C
			TLV	PEL	
PROPANE '070' '080'	00074-98-6	21.85	NE	1000 PPM	125 PSIA
N-BUTANE '070' '080'	00106-97-8	10.58	800 PPM	800 PPM	32.1PSIA
ISOBUTANE '070' '080'	00075-97-8	10.56	800 PPM	NE	45.1PSIA
TOLUENE '030'	00108-88-3	23.52	100PPM	100 PPM	22
ALIPHATIC HYDROCARBON (VM&P) '100'	64742-89-8	5 - 10	300 PPM	300 PPM	15@ 37.7
XYLENE '030' '130'	01330-20-7	22.79	100 PPM	100 PPM	5.1

'030' THIS CHEMICAL IS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313, SARA TITLE III

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SECTION II.---HAZARDOUS INGREDIENTS /CONT./

INGREDIENT	C.A.S.#	.WEIGHT %	OCCUPATIONAL		VAPOR
			TLV	PEL	PRESSURE
.MMHG@20 C					

'070'(A) = ASPHIXIANT
'080'PSIA = POUNDS / SQUARE INCH ABSOLUTE
'100'VM&P CONTAINS <8% XYLENE, CAS 1330-20-7,TLV/PEL 100PPM (SARA 313,TITLE III)
AND <2% ETHYL BENZENE, CAS 100-41-4,TLV/PEL 100PPM (SARA 313,TITLE III)
'130'XYLENE CONTAINS 18-20% ETHYL BENZENE,CAS 100-41-4, TLV/PEL 100PPM (125PPM
STEL). ETHYL BENZENE IS A SARA 313,TITLE III CHEMICAL.

SECTION III.---PHYSICAL DATA

BOILING RANGE, 43-TO 279 DEG F. VAPOR DENSITY: HEAVIER THAN AIR WT/GAL: 5.74
EVAPORATION RATE: SLOWER THAN ETHER % VOLATILE VOLUME: 97.09
VOC LB/GAL: 5.45 VOC GM/L: 652

SECTION IV.---FIRE AND EXPLOSION HAZARD DATA

*FLAMMABILITY CLASSIFICATION OSHA: CLASS IA FLASH POINT: 156- DEGREES F
DOT: FLAMMABLE LIQUID
L.E.L.: .9 % VOLUME IN AIR

*EXTINGUISHING MEDIA

/X/ FOAM /X/ ALCOHOL FOAM /X/ CO2 /X/ DRY CHEMICAL /X/ WATER FOG

UNUSUAL FIRE AND EXPLOSION HAZARDS

KEEP CONTAINERS TIGHTLY CLOSED. ISOLATE FROM HEAT, ELECTRICAL EQUIPMENT, SPARKS,
AND OPEN FLAMES. APPLICATION TO HOT SURFACES REQUIRES SPECIAL PRECAUTIONS.
CLOSED CONTAINERS MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT. DURING EMERGENCY
CONDITIONS, OVEREXPOSURE TO COMBUSTION PRODUCTS MAY CAUSE A HEALTH HAZARD.
SYMPTOMS MAY NOT BE IMMEDIATELY APPARENT. OBTAIN MEDICAL ATTENTION. VAPORS MAY
BE IGNITED BY STATIC ELECTRICITY OR FRICTION SPARKS. VAPORS ARE HEAVIER THAN AIR
AND MAY TRAVEL CONSIDERABLE DISTANCES TO POINTS OF IGNITION AND THEN FLASH BACK.

SPECIAL FIREFIGHTING PROCEDURES

WATER MAY BE INEFFECTIVE. IF WATER IS USED, FOG NOZZLES ARE PREFERABLE. WATER
MAY BE USED TO COOL CLOSED CONTAINERS TO PREVENT PRESSURE BUILD-UP AND POSSIBLE
AUTOIGNITION WHEN EXPOSED TO EXTREME HEAT. FULL PROTECTIVE EQUIPMENT, INCLUDING
SELF-CONTAINED BREATHING APPARATUS, SHOULD BE USED TO PROTECT FIREFIGHTERS FROM
ANY HAZARDOUS PRODUCTS. AVOID SPREADING BURNING LIQUID WITH WATER USED TO COOL.

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SECTION V.---HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE
ACUTE.

/ INHALATION / ANESTHETIC. IRRITATION OF THE RESPIRATORY TRACT OR ACUTE NERVOUS SYSTEM DEPRESSION CHARACTERIZED BY THE FOLLOWING PROGRESSIVE STEPS, HEADACHE DIZZINESS, STAGGERING GAIT, CONFUSION, UNCONCIOUSNESS, COMA OR ASPHIXIATION.
/SKIN OR EYE CONTACT/ PRIMARY IRRITANT.

CHRONIC.

OVEREXPOSURE TO THIS MATERIAL (OR ITS COMPONENTS) HAS BEEN SUGGESTED AS A CAUSE OF THE FOLLOWING EFFECTS IN HUMANS:

REPRODUCTIVE DISORDERS
CARDIAC ABNORMALITY
LIVER ABNORMALITIES
EYE DAMAGE

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE

ASTHMA.
RESPIRATORY AND/OR SKIN ALLERGIES IN SUSCEPTABLE PERSONS.

*PRIMARY ROUTES OF ENTRY, /X/ DERMAL /X/ INHALATION / / INGESTION

EMERGENCY AND FIRST AID PROCEDURES

/INHALATION/ REMOVE TO FRESH AIR. RESTORE BREATHING IF REQUIRED. TREAT SYMPTOMATICALLY CONSULT A PHYSICIAN.

/SPLASH - EYES/ FLUSH IMMEDIATELY WITH LARGE AMOUNTS OF WATER, INCLUDING UNDER EYELIDS FOR A LEAST 15 MINUTES CONSULT A PHYSICIAN IF IRRITATION PERSISTS.

/SPLASH - SKIN/ WASH AFFECTED AREAS WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING. CONSULT A PHYSICIAN IF IRRITATION PERSISTS.

/INGESTION/ CONSULT PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY. TREAT SYMPTOMATICALLY/

*CARCINOGENICITY: *NI* IARC *NI* NTP *NI* OSHA

SECTION VI.---REACTIVITY DATA

*STABILITY, STABLE

*HAZARDOUS POLYMERIZATION WILL NOT OCCUR

HAZARDOUS DECOMPOSITION PRODUCTS

MAY PRODUCE FUMES WHEN HEATED TO DECOMPOSITION, AS IN WELDING OR FIRE. FUMES MAY CONTAIN: CARBON MONOXIDE, CARBON DIOXIDE, AND VARIOUS OTHER HYDROCARBONS.

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SECTION VI.---REACTIVITY DATA/CONT./

CONDITIONS TO AVOID
HEAT, SPARKS, OR OPEN FLAME.

INCOMPATIBILITY (MATERIALS TO AVOID)
PEROXIDES OR STRONG OXIDIZING AGENTS.
STRONG ACIDS AND/OR STRONG BASES.

SECTION VII.---SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
LIMIT SPREAD OF SPILL OR LEAK. REMOVE ALL SOURCES OF IGNITION. SOAK UP WITH AN INERT ABSORBENT MATERIAL. USE NON-SPARKING TOOLS WHEN REMOVING WET ABSORBENT. SEE SECTION VIII FOR REQUIRED PROTECTIVE MEASURES. KEEP MATERIALS OUT OF SEWERS AND/OR DRAINS.

WASTE DISPOSAL METHOD
DISPOSE OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS. APPROVED LAND FILL, APPROVED HAZARDOUS WASTE SITE, OR INCINERATION.

SECTION VIII.---SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION
OUTDOORS/ USE MECHANICAL FILTER RESPIRATOR WHILE SPRAYING.
RESTRICTED VENTILATION AREA/ USE APPROVED CHEMICAL/MECHANICAL FILTERS DESIGNED TO REMOVE A COMBINATION OF PARTICULATES AND VAPORS.
CONFINED AREAS/ USE APPROVED AIR LINE TYPE RESPIRATORS OR HOODS.

VENTILATION
VENTILATION OF SUFFICIENT VOLUME AND PATTERN SHOULD BE PROVIDED TO KEEP AIR CONTAMINANT CONCENTRATIONS BELOW VALUES IN SECTION II. AN EXHAUST FILTER SYSTEM MAY BE REQUIRED TO AVOID ENVIRONMENTAL CONTAMINATION.
COMPLY WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS ON EMISSIONS TO ATMOSPHERE.

PROTECTIVE GLOVES
REQUIRED FOR PROLONGED OR REPEATED CONTACT, RUBBER OR NEOPRENE.

EYE PROTECTION
USE CHEMICAL GOGGLES.

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SECTION VIII.---SPECIAL PROTECTION INFORMATION /CONT./

OTHER PROTECTIVE EQUIPMENT

WEAR CHEMICAL RESISTANT SHOES. REMOVE AND WASH CONTAMINATED CLOTHING BEFORE RE-USE. A RUBBER OR PLASTIC APRON SHOULD BE WORN. A SOURCE OF CLEAN WATER SHOULD BE AVAILABLE FOR FLUSHING EYES AND SKIN.

HYGIENIC PRACTICES

WASH HANDS BEFORE EATING OR USING THE WASHROOM. SMOKE IN DESIGNATED SMOKING AREAS ONLY.

SECTION IX.---SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

DO NOT HANDLE UNTIL THE MANUFACTURER'S SAFETY PRECAUTIONS HAVE BEEN READ AND UNDERSTOOD. STORE AWAY FROM EXTREME HEAT, FIRE, OR OPEN FLAME. STORE IN ACCORDANCE WITH OSHA 1910.106. STORE LARGE QUANTITIES ONLY IN BUILDINGS DESIGNED TO COMPLY WITH OSHA 1910.106. STORE IN WELL VENTILATED AREAS. DO NOT STORE ABOVE 100 DEGREES F. / 38 DEGREES C. KEEP DRUMS OUT OF DIRECT SUN.

OTHER PRECAUTIONS

KEEP CLOSURE TIGHT AND CONTAINER UPRIGHT TO PREVENT LEAKAGE. DO NOT STORE OR USE NEAR HEAT SPARKS OR OPEN FLAME. DRUMS OF THIS MATERIAL SHOULD BE GROUNDED AND BONDED WHEN POURING. DO NOT USE PRESSURE TO EMPTY, DRUM IS NOT A PRESSURE VESSEL. DO NOT PUNCTURE, DRAG, OR SLIDE CONTAINER. DO NOT TAKE INTERNALLY. AVOID REPEATED OR PROLONGED CONTACT WITH SKIN. LIQUID PENETRATES LEATHER AND SHOES CAUSING DELAYED BURNS. SERIOUS ACCIDENTS HAVE RESULTED FROM THE MISUSE OF "EMPTIED" CONTAINERS (DRUMS, 1 AND 5 GALLON PAILS, ETC.). REFER TO SECTIONS IV AND IX. IT IS RECOMMENDED THAT CONTAINERS BE EITHER PROFESSIONALLY RECONDITIONED FOR REUSE BY CERTIFIED FIRMS OR PROPERLY DISPOSED OF BY CERTIFIED FIRMS TO HELP REDUCE THE POSSIBILITY OF AN ACCIDENT. DISPOSAL OF CONTAINERS SHOULD BE IN ACCORDANCE WITH APPLICABLE LAWS AND REGULATIONS, "EMPTY" DRUMS SHOULD NOT BE GIVEN TO INDIVIDUALS. CONTAINERS OF THIS MATERIAL MAY BE HAZARDOUS WHEN EMPTIED, SINCE EMPTIED CONTAINERS RETAIN PRODUCT RESIDUES (VAPOR, LIQUID AND/OR SOLID). ALL HAZARD PRECAUTIONS GIVEN IN THE DATA SHEET MUST BE OBSERVED. NEVER USE A WELDING OR CUTTING TORCH ON OR NEAR DRUM, EVEN WHEN EMPTY, AS PRODUCT, EVEN JUST RESIDUE, CAN IGNITE EXPLOSIVELY.

**** NOTICE ****

REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OCCUPATIONAL OVEREXPOSURE TO SOLVENTS WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS MAY BE HARMFUL OR FATAL.

THE INFORMATION ACCUMULATED HEREIN IS BELIEVED TO BE ACCURATE, BUT IS NOT WARRANTED TO BE WHETHER ORIGINATING WITH YENKIN MAJESTIC OR NOT. RECIPIENTS ARE ADVISED TO CONFIRM IN ADVANCE OF NEED, THAT THE INFORMATION IS CURRENT, APPLICABLE, AND SUITABLE TO THEIR CIRCUMSTANCES.

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