

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: **ZAR OIL BASED WOOD STAIN (ALL COLORS & TINT BASES)**
FORMERLY: **ZAR WOOD STAIN & SEALER (ALL COLORS)**
PRODUCT CODE: **109-110-111-113-114-115-116-117-118-119-120- 121-122-123**
124-125-126-127-128-129-135-137-138-139- 140-145

HMIS CODES: H F R P
1 2 0

SECTION I – MANUFACTURER IDENTIFICATON

MANUFACTURE'S NAME: **UNITED GILSONITE LABORATORIES**
ADDRESS: **1396 JEFFERSON AVENUE**
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NAME OF PREPARER: **R. BARAKO**

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SECTION II – HAZARDOUS INGREDIENTS/SARA III INFORMATION

HAZARDOUS COMPONENTS	CAS NUMBER	OCCUPATIONAL EXPOSURE LIMITS			VAPOR PRESSURE mmHg@TEMP	WEIGHT PERCENT
		OSHA PEL	ACGIH TLV	OTHER		
MALEINIZED LINSEED OIL	67922-98-9	15 MG/M ³	10 MG/M ³	NOT ESTAB	N/A	40
SOLVENT NAPHTHA (PETROLEUM)						
MEDIUM ALIPHATIC	64742-88-7	500 PPM	100 PPM	100 PPM	0.50 (68F)	40-50
KEROSENE	8008-20-6	NOT ESTAB	200 MG/M ³ (TWA)	NOT ESTAB	1.0 (70F)	5

SEE SECTION IX FOR LIST OF ADDITIONAL INGREDIENTS

SECTION III – PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING RANGE: 308-396 (F)
VAPOR DENSITY: HEAVIER THAN AIR
COATING V.O.C.: DOES NOT EXCEED MAXIMUM VOC 550 G/L (VOS 4.60 LB/GAL)
SOLUBILITY IN WATER: INSOLUBLE
APPEARANCE AND ODOR: COLORS SPECIFIC TO PRODUCT. TYPICAL MINERAL SPIRITS ODOR

SPECIFIC GRAVITY (H₂O = 1): 0.9
EVAPORATION RATE: SLOWER THAN ETHER

SECTION IV – FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 104 (F)
FLAMMABLE LIMITS IN AIR BY VOLUME:
EXTINGUISHING MEDIA: FOAM, ALCOHOL FOAM, CO₂, DRY CHEMICAL, WATER FOG
SPECIAL FIRE FIGHTING PROCEDURES:
WATER SPRAY MAY BE INEFFECTIVE. IF WATER IS USED, FOG NOZZLES ARE PREFERRED. WATER MAY BE USED TO COOL CLOSED CONTAINERS TO PREVENT PRESSURE BUILD-UP AND POSSIBLE AUTO-IGNITION OR EXPLOSION WHEN CONTAINERS ARE EXPOSED TO EXTREME HEAT.

METHOD USED: TCC
LOWER: 0.7% **UPPER:** 7.0%

UNUSUAL FIRE AND EXPLOSION HAZARDS:
KEEP CONTAINERS TIGHTLY CLOSED. ISOLATE FROM HEAT, SPARKS, ELECTRICAL EQUIPMENT AND OPEN FLAME. CLOSED CONTAINERS MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT.

SECTION V – REACTIVITY DATA

STABILITY: PRODUCT IS STABLE

CONDITIONS TO AVOID: HEAT, SPARKS, OPEN FLAMES, HIGH TEMPERATURES.

INCOMPATIBILITY (MATERIALS TO AVOID): STRONG OXIDIZING AGENTS

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: FUMES, SMOKE, CARBON DIOXIDE, ALDEHYDES AND OTHER DECOMPOSITION PRODUCTS, IN CASE OF INCOMPLETE COMBUSTION.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

SECTION VI – HEALTH HAZARD DATA

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: EXCESSIVE EXPOSURE TO VAPORS OR SPRAY MISTS CAN RESULT IN HEADACHE, DIZZINESS, INCOORDINATION, NAUSEA AND LOSS OF CONSCIOUSNESS.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE: THIS MATERIAL MAY BE AN EYE IRRITANT.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: THIS MATERIAL MAY CAUSE DEFATTING AND IRRITATION OF SKIN. PROLONGED OR REPEATED CONTACT MAY CAUSE DERMATTITIS.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: MAY PRODUCE SIGNS OF INTOXICATION CHARACTERIZED BY INCOORDINATION, DIZZINESS, HEADACHE, NAUSEA, MENTAL CONFUSION, SLURRED SPEECH DEPENDING ON THE QUANTITY OF MATERIAL INGESTED.

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

CARCINOGENICITY: NTP? NO IARC MONOGRAPHS? YES OSHA REGULATED? NO
TITANIUM DIOXIDE HAS BEEN CHARACTERIZED BY IARC AS POSSIBLY CARCINOGENIC TO HUMANS (GROUP 2B) THROUGH INHALATION (NOT INGESTION). THIS CLASSIFICATION IS BASED UPON ANIMAL INHALATION STUDIES. EPIDEMIOLOGY STUDIES DO NOT SUGGEST AN INCREASED RISK OF CANCER IN HUMANS FROM OCCUPATIONAL EXPOSURE TO TITANIUM DIOXIDE.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:
KIDNEY DISEASES, RESPIRATORY ILLNESSES, SKIN ALLERGIES.

EMERGENCY AND FIRST AID PROCEDURES:

EYES: FLUSH WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. CONSULT A PHYSICIAN IF IRRITATION PERSISTS.

SKIN: WASH AFFECTED AREA WITH SOAP AND WATER. CONSULT A PHYSICIAN IF IRRITATION PERSISTS

INGESTION: GIVE ONE OR TWO GLASSES OF WATER. IF INDIVIDUAL IS DROWSY OR UNCONSCIOUS DO NOT GIVE ANYTHING BY MOUTH. CONSULT A PHYSICIAN, MEDICAL FACILITY OR POISON CONTROL CENTER FOR ADVISE ABOUT WHETHER TO INDUCE VOMITING . TREAT SYMTOMATICALLY.

INHALATION: REMOVE VICTIM TO FRESH AIR TREAT SYMTOMATICALLY. CONSULT PHYSICIAN.

SECTION VII – PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

REMOVE ANY SOURCES OF IGNITION. PROVIDE ADEQUATE VENTILATION AND / OR SELF-CONTAINED BREATHING APPARATUS. DIKE SPILL, APPLY ABSORBENT MATERIAL. USING NON-SPARKING TOOLS, SCRAPE UP AND STORE IN A CLOSED METAL CONTAINER. AVOID BREATHING VAPORS.

WASTE DISPOSAL METHOD: DISPOSE OF IN APPROVED SITES ACCORDING TO LOCAL, STATE AND FEDERAL REGULATIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

AVOID BREATHING SANDING DUST. AVOID STORAGE AT TEMPERATURES GREATER THAN 90 DEGREES (F) OR NEAR HEAT, SPARKS, ELECTRICAL EQUIPMENT OR OPEN FLAMES.

OTHER PRECAUTIONS:

AVOID PROLONGED BREATHING OF VAPORS OR CONTACT WITH SKIN. PREVENT PROLONGED OR REPEATED BREATHING OF VAPOR OR SPRAY MIST. TO AVOID SPONTANEOUS COMBUSTION DURING TEMPORARY STORAGE, SOAK SOILED RAGS AND WASTE IMMEDIATELY AFTER USE, IN A WATER FILLED, CLOSED METAL CONTAINER.

SECTIONS VIII – CONTROL MEASURES

RESPIRATORY PROTECTION:

WEAR NIOSH-APPROVED RESPIRATOR WITH ORGANIC VAPOR AND SOLID PARTICLE FILTER CARTRIDGES.

VENTILATION:

USE ADEQUATE VENTILATION IN VOLUME AND PATTERN TO MAINTAIN LEVELS BELOW THAT LISTED IN SECTION II & IX

PROTECTIVE GLOVES:

USE NEOPRENE RUBBER GLOVES TO PREVENT SKIN CONTACT.

EYE PROTECTION:

USE SAFETY EYEWEAR WITH SPLASH GUARDS OR SIDE SHIELDS.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

REMOVE AND WASH CONTAMINATED CLOTHING BEFORE REUSE.

WORK / HYGIENIC PRACTICES: WASH HANDS BEFORE EATING, SMOKING OR USING THE BATHROOM.

SECTION IX – ADDITIONAL INGREDIENTS

PRODUCT	INGREDIENT	CAS NO.	OCCUPATIONAL EXPOSURE LIMITS		WEIGHT PERCENT
			PEL	TLV	
(109) COLONIAL PINE	RAW UMBER	12713-03-0	NOT ESTAB	10 MG/M ³	<5
	VAN DYKE BROWN	1317-34-6	NOT ESTAB	10 MG/M ³	5-10
(110) SALEM MAPLE	BURNT UMBER	1304-37-1	NOT ESTAB	10 MG/M ³	<5
	BURNT SIENNA	1309-37-1	10 MG/M ³	10 MG/M ³	<5
	NEPHELINE SYENITE	37244-96-5	15 MG/M ³	NOT ESTAB	<5
(111) WALNUT	RAW UMBER	12713-03-0	NOT ESTAB	10 MG/M ³	<5
	YELLOW OXIDE	51274-00-1	NOT ESTAB	10 MG/M ³	<5
(113) FRUITWOOD	RAW UMBER	12713-03-0	NOT ESTAB	10 MG/M ³	<5
	BURNT UMBER	MIXTURE	NOT ESTAB	5 MG/M ³	5
	TITANIUM DIOXIDE	13463-67-1	10 MG/M ³	15 MG/M ³	<5
(114) PROVINCIAL	BURNT UMBER	MIXTURE	NOT ESTAB	5 MG/M ³	5
	IRON OXIDE	1309-37-1	10 MG/M ³	5 MG/M ³	<5
	YELLOW OXIDE	51274-00-1	NOT ESTAB	10 MG/M ³	<5
(115) MODERN WALNUT	RAW UMBER	12713-03-0	NOT ESTAB	10 MG/M ³	5
	BURNT UMBER	MIXTURE	NOT ESTAB	5 MG/M ³	<5
	IRON OXIDE	1309-37-1	10 MG/M ³	5 MG/M ³	<5
(116) CHERRY	IRON OXIDE	1309-37-1	10 MG/M ³	5 MG/M ³	5
	BURNT UMBER	MIXTURE	NOT ESTAB	5 MG/M ³	<5
(117) HONEY MAPLE	NEPHELINE SYENITE	37244-96-5	15 MG/M	NOT ESTAB	<5
(118) DARK MAHOGANY	IRON OXIDE	1309-37-1	10 MG/M ³	5 MG/M ³	10
	BURNT UMBER	MIXTURE	NOT ESTAB	5 MG/M ³	5
(119) MOCHA	RAW UMBER	12713-03-0	NOT ESTAB	10 MG/M ³	5
	BURNT UMBER	MIXTURE	NOT ESTAB	5 MG/M ³	5
	IRON OXIDE	1309-37-1	10 MG/M ³	5 MG/M ³	5
(120) TEAK NATURAL	RAW UMBER	12713-03-0	NOT ESTAB	10 MG/M ³	10
	IRON OXIDE	1309-37-1	10 MG/M ³	10 MG/M ³	<5
(121) BLACK ONYX	BLACK IRON OXIDE	1317-61-9	NOT ESTAB	NOT ESTAB	10-15
	NEPHELINE SYENITE	37244-96-5	15 MG/M	NOT ESTAB	3-5
(122) MEDITERRANEAN	RAW UMBER	12713-03-0	NOT ESTAB	10 MG/M ³	5
	BURNT UMBER	MIXTURE	NOT ESTAB	5 MG/M ³	<5
	TITANIUM DIOXIDE	13463-67-1	10 MG/M ³	15 MG/M ³	<5
(123) MOORISH TEAK	IRON OXIDE	1309-37-1	10 MG/M ³	5 MG/M ³	15
	MINERAL SPIRITS	64742-88-7	500 PPM	100 PPM	<5
(124) ROSEWOOD	IRON OXIDE	1309-37-1	10 MG/M ³	5 MG/M ³	5
	BURNT UMBER	MIXTURE	NOT ESTAB	5 MG/M ³	<5
	MINERAL SPIRITS	64742-88-7	500 PPM	100 PPM	<5
(125) BLACK WALNUT	IRON OXIDE	1309-37-1	10 MG/M ³	5 MG/M ³	5
	BURNT UMBER	MIXTURE	NOT ESTAB	5 MG/M ³	5
	RAW UMBER	12713-03-0	NOT ESTAB	10 MG/M ³	<5

(OVER)

SECTION IX – ADDITIONAL INGREDIENTS (CON'T)

PRODUCT	INGREDIENT	CAS NO.	OCCUPATIONAL EXPOSURE LIMITS		WEIGHT PERCENT
			PEL	TLV	
(126) CHESTNUT	YELLOW OXIDE IRON OXIDE BLACK IRON OXIDE	51274-00-1 1332-37-2 1317-61-9	NOT ESTAB 10 PPM (STEL) 10 PPM (STEL)	10 MG/M ³ 5 MG/M ³ 5 MG/M ³	8 <5 <5
(127) GOLDEN OAK	INORGANIC OXIDE	51274-00-1	NOT ESTAB	NOT ESTAB	<5
(128) EARLY AMERICAN	BURNT SIENNA BURNT UMBER YELLOW IRON OXIDE	1309-31-1 1309-31-1 51274-00-1	10 MG/M ³ 10 MG/M ³ 15 MG/M ³	5 MG/M ³ 5 MG/M ³ 10 MG/M ³	5 <5 <5
(129) AMBER VARNISH	YELLOW IRON OXIDE	51274-00-1	NOT ESTAB	5 MG/M ³	5
(135) CHARCOAL	IRON OXIDE CARBON BLACK MINERAL SPIRITS	1309-37-1 1333-86-4 64742-88-7	10 MG/M ³ 3.5 MG/M ³ 500 PPM	5 MG/M ³ 3.5 MG/M ³ 100 PPM	5 <5 <5
(137) WHITE OAK	NEPHELINE SYENITE PIGMENT DISPERSION	37244-96-5 NOT ESTAB	15 MG/M ³ NOT ESTAB	NOT ESTAB NOT ESTAB	<5 <5
(138) SPANISH OAK	YELLOW OXIDE	51274-00-1	NOT ESTAB	10 MG/M ³	<5
(139) COASTAL BOARDS	TITANIUM DIOXIDE	13463-67-1	10 MG/M ³	15 MG/M ³	15-20
(140) MERLOT	RED IRON OXIDE NEPHELINE SYENITE	1309-37-1 37244-96-5	10 MG/M ³ 15 MG/M ³	5 MG/M ³ NOT ESTAB	10-15 3-5
(145) TINT BASE	MALEINIZED LINSEED OIL STODDARD SOLVENT KEROSENE	67922-98-9 8052-41-3 8008-20-6	NOT ESTAB 100 PPM 100 PPM	NOT ESTAB 100 PPM 500 PPM	40 55 5

SECTION X – DISCLAIMER

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