

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: ZAR OIL BASED WOOD STAIN (ALL COLORS & TINT BASES) LOW VOC HMIS CODES: H F R P
FORMERLY: ZAR WOOD STAIN & SEALER (ALL COLORS) 1 2 0
PRODUCT CODE: 109-110-111-113-114-115-116-117-118-119-120- 121-122-123
124-125-126-127-128-129-130-135-136-137-138-139- 140-169
(GALLONS ONLY)

SECTION I – MANUFACTURER IDENTIFICATION

MANUFACTURE'S NAME: UNITED GILSONITE LABORATORIES EMERGENCY PHONE: (800) 424-9300
ADDRESS: 1396 JEFFERSON AVENUE
SCRANTON, PA 18509 INFORMATION PHONE: (570) 344-1202
NAME OF PREPARER: R. BARAKO

DATE REVISED: JANUARY 2010
SUPERSEDES: JUNE 2006

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	50
SOLVENT NAPHTHA (PETROLEUM)						
MEDIUM ALIPHATIC	64742-88-7	500 PPM	100 PPM	100 PPM	0.50 (68F)	20
KEROSENE	8008-20-6	NOT ESTAB	200 MG/M ³ (TWA)	NOT ESTAB	1.0 (70F)	5
SOYBEAN OIL BLEND	MIXTURE	NOT ESTAB	NOT ESTAB	NOT ESTAB	N/A	10-15

SEE SECTION IX FOR LIST OF ADDITIONAL INGREDIENTS

SECTION III – PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING RANGE: 308-396 (F) **SPECIFIC GRAVITY (H₂O = 1):** 0.9
VAPOR DENSITY: HEAVIER THAN AIR **EVAPORATION RATE:** SLOWER THAN ETHER
COATING V.O.C.: DOES NOT EXCEED MAXIMUM VOC 250 G/L
SOLUBILITY IN WATER: INSOLUBLE
APPEARANCE AND ODOR: COLORS SPECIFIC TO PRODUCT. TYPICAL MINERAL SPIRITS ODOR

SECTION IV – FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 104 (F) **METHOD USED:** TCC
FLAMMABLE LIMITS IN AIR BY VOLUME: **LOWER:** 0.7% **UPPER:** 7.0%

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.

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 DERMATITIS.

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 VAN DYKE BROWN	12713-03-0 1317-34-6	NOT ESTAB NOT ESTAB	10 MG/M ³ 10 MG/M ³	<5 5-10
(110) SALEM MAPLE	BURNT UMBER BURNT SIENNA NEPHELINE SYENITE	1304-37-1 1309-37-1 37244-96-5	NOT ESTAB 10 MG/M ³ 15 MG/M ³	10 MG/M ³ 10 MG/M ³ NOT ESTAB	<5 <5 <5
(111) WALNUT	RAW UMBER YELLOW OXIDE	12713-03-0 51274-00-1	NOT ESTAB NOT ESTAB	10 MG/M ³ 10 MG/M ³	<5 <5
(113) FRUITWOOD	RAW UMBER BURNT UMBER TITANIUM DIOXIDE	12713-03-0 MIXTURE 13463-67-1	NOT ESTAB NOT ESTAB 10 MG/M ³	10 MG/M ³ 5 MG/M ³ 15 MG/M ³	<5 5 <5
(114) PROVINCIAL	BURNT UMBER IRON OXIDE YELLOW OXIDE	MIXTURE 1309-37-1 51274-00-1	NOT ESTAB 10 MG/M ³ NOT ESTAB	5 MG/M ³ 5 MG/M ³ 10 MG/M ³	5 <5 <5
(115) MODERN WALNUT	RAW UMBER BURNT UMBER IRON OXIDE	12713-03-0 MIXTURE 1309-37-1	NOT ESTAB NOT ESTAB 10 MG/M ³	10 MG/M ³ 5 MG/M ³ 5 MG/M ³	5 <5 <5
(116) CHERRY	IRON OXIDE BURNT UMBER	1309-37-1 MIXTURE	10 MG/M ³ NOT ESTAB	5 MG/M ³ 5 MG/M ³	5 <5
(117) HONEY MAPLE	NEPHELINE SYENITE	37244-96-5	15 MG/M	NOT ESTAB	<5
(118) DARK MAHOGANY	IRON OXIDE BURNT UMBER	1309-37-1 MIXTURE	10 MG/M ³ NOT ESTAB	5 MG/M ³ 5 MG/M ³	10 5
(119) MOCHA	RAW UMBER BURNT UMBER IRON OXIDE	12713-03-0 MIXTURE 1309-37-1	NOT ESTAB NOT ESTAB 10 MG/M ³	10 MG/M ³ 5 MG/M ³ 5 MG/M ³	5 5 5
(120) TEAK NATURAL	RAW UMBER IRON OXIDE	12713-03-0 1309-37-1	NOT ESTAB 10 MG/M ³	10 MG/M ³ 10 MG/M ³	10 <5
(121) BLACK ONYX	BLACK IRON OXIDE NEPHELINE SYENITE	1317-61-9 37244-96-5	NOT ESTAB 15 MG/M	NOT ESTAB NOT ESTAB	10-15 3-5
(122) MEDITERRANEAN	RAW UMBER BURNT UMBER TITANIUM DIOXIDE	12713-03-0 MIXTURE 13463-67-1	NOT ESTAB NOT ESTAB 10 MG/M ³	10 MG/M ³ 5 MG/M ³ 15 MG/M ³	5 <5 <5
(123) MOORISH TEAK	IRON OXIDE MINERAL SPIRITS	1309-37-1 64742-88-7	10 MG/M ³ 500 PPM	5 MG/M ³ 100 PPM	15 <5
(124) ROSEWOOD	IRON OXIDE BURNT UMBER MINERAL SPIRITS	1309-37-1 MIXTURE 64742-88-7	10 MG/M ³ NOT ESTAB 500 PPM	5 MG/M ³ 5 MG/M ³ 100 PPM	5 <5 <5
(125) BLACK WALNUT	IRON OXIDE BURNT UMBER RAW UMBER	1309-37-1 MIXTURE 12713-03-0	10 MG/M ³ NOT ESTAB NOT ESTAB	5 MG/M ³ 5 MG/M ³ 10 MG/M ³	5 5 <5

(OVER)

SECTION IX – ADDITIONAL INGREDIENTS (CON'T)

PRODUCT	INGREDIENT	CAS NO.	OCCUPATIONAL EXPOSURE LIMITS		WEIGHT PERCENT
			PEL	TLV	
(126) CHESTNUT	YELLOW OXIDE	51274-00-1	NOT ESTAB	10 MG/M ³	8
	IRON OXIDE	1332-37-2	10 PPM (STEL)	5 MG/M ³	<5
	BLACK IRON OXIDE	1317-61-9	10 PPM (STEL)	5 MG/M ³	<5
(127) GOLDEN OAK	INORGANIC OXIDE	51274-00-1	NOT ESTAB	NOT ESTAB	<5
(128) EARLY AMERICAN	BURNT SIENNA	1309-31-1	10 MG/M ³	5 MG/M ³	5
	BURNT UMBER	1309-31-1	10 MG/M ³	5 MG/M ³	<5
	YELLOW IRON OXIDE	51274-00-1	15 MG/M ³	10 MG/M ³	<5
(129) AMBER VARNISH	YELLOW IRON OXIDE	51274-00-1	NOT ESTAB	5 MG/M ³	5
(130) DRIFTWOOD	RAW UMBER	1309-37-1	10 MG/M ³	5 MG/M ³	<5
	TITANIUM DIOXIDE	13463-67-7	15 MG/M ³	10 MG/M ³	<5
(135) CHARCOAL	IRON OXIDE	1309-37-1	10 MG/M ³	5 MG/M ³	5
	CARBON BLACK	1333-86-4	3.5 MG/M ³	3.5 MG/M ³	<5
	MINERAL SPIRITS	64742-88-7	500 PPM	100 PPM	<5
(136) ENGLISH WALNUT	BURNT UMBER	MIXTURE	NOT ESTAB	5 MG/M ³	<5
	IRON OXIDE	1309-37-1	10 MG/M ³	5 MG/M ³	<5
(137) WHITE OAK	NEPHELINE SYENITE	37244-96-5	15 MG/M ³	NOT ESTAB	<5
	PIGMENT DISPERSION	NOT ESTAB	NOT ESTAB	NOT ESTAB	<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	1309-37-1	10 MG/M ³	5 MG/M ³	10-15
	NEPHELINE SYENITE	37244-96-5	15 MG/M ³	NOT ESTAB	3-5
(169) TINT BASE	MALEINIZED LINSEED OIL	67922-98-9	NOT ESTAB	NOT ESTAB	50
	SOLVENT NAPHTHA (PETROLEUM) MEDIUM				
	ALIPHATIC	64742-88-7	500 PPM	100 PPM	20
	KEROSENE	8008-20-6	100 PPM	500 PPM	5
	SOYBEAN OIL BLEND	MIXTURE	NOT ESTAB	NOT ESTAB	10-15

SECTION X – DISCLAIMER

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