

MATERIAL SAFETY DATA SHEET

4530-ALKOTHIN-METHANOL

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PRODUCT NAME: 4530-ALKOTHIN-METHANOL
PRODUCT CODE: 4530 ALKOTHIN

HMIS CODES: H F R P
3 3 0 H

SECTION I - MANUFACTURER IDENTIFICATION

MANUFACTURER'S NAME: WOOD KOTE PRODUCTS INC.
ADDRESS : 8000 NE 14TH PLACE
PORTLAND, OR 97211

EMERGENCY PHONE : (800) 535-5053 DATE PRINTED : 10/01/10
INFORMATION PHONE : (503) 285-8371 NAME OF PREPARER : N. VAIDYA

SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION

Table with 4 columns: REPORTABLE COMPONENTS, CAS NUMBER, VAPOR PRESSURE mm Hg @ TEMP, WEIGHT PERCENT. Row 1: METHYL ALCOHOL - DANGER POISON, 67-56-1, 96 68 F, 100%. Includes sub-rows for exposure limits: 200 PPM(SKIN) ACGIH TWA, 250 PPM(SKIN) ACGIH STEL, 200 PPM OSHA TWA.

* INDICATES TOXIC CHEMICAL(S) SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III AND OF 40 CFR 372.
WARNING: DETECTABLE AMOUNTS OF A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND/OR BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM MAY BE PRESENT IN THIS PRODUCT.

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING RANGE: 147 F SPECIFIC GRAVITY (H2O=1): 0.79
VAPOR DENSITY: HEAVIER THAN AIR EVAPORATION RATE: SLOWER THAN ETHER
COATING V.O.C.: 787 g/l MATERIAL V.O.C.: 787 g/l
SOLUBILITY IN WATER: COMPLETE
APPEARANCE AND ODOR: VARIOUS COLOR SEMI TRANSPARENT DYE STAINS, ALCOHOL ODOR

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 45 F METHOD USED: TCC
FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: .06 UPPER: .36
EXTINGUISHING MEDIA: FOAM, ALCOHOL FOAM, CO2, DRY CHEMICAL, WATER FOG, OTHER

SPECIAL FIREFIGHTING PROCEDURES

DANGER: EXTREMELY FLAMMABLE. CLEAR FIRE AREA OF UNPROTECTED PERSONNEL. DO NOT ENTER CONFINED FIRE SPACE WITHOUT FULL GEAR, INCLUDING A POSITIVE PRESSURE NIOSH APPROVED SCBA. COOL FIRE EXPOSED CONTAINERS WITH WATER. WHEN HEATED ABOVE THE FLASH POINT THIS MATERIAL EMITS FLAMMABLE VAPORS WHICH, WHEN MIXED WITH AIR, CAN BURN OR BE EXPLOSIVE. FINE MIST OR SPRAY MAY BE FLAMMABLE AT TEMPERATURES BELOW THE FLASH POINT.

UNUSUAL FIRE AND EXPLOSION HAZARDS

HANDLE AS FLAMMABLE LIQUID. VAPORS FORM AN EXPLOSIVE MIXTURE IN AIR BETWEEN THE UPPER AND LOWER EXPLOSIVE LIMITS WHICH CAN BE IGNITED BY MANY SOURCES SUCH AS

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PILOT LIGHTS, OPEN FLAMES, ELECTRICAL MOTORS AND SWITCHES. USE WATER AS A FOG TO COOL UNOPENED CONTAINERS IN ORDER TO PREVENT VAPOR PRESSURE BUILDUP WHICH COULD RESULT IN RUPTURING CANS.

===== SECTION V - REACTIVITY DATA =====

STABILITY: STABLE - AVOID EXPOSURE TO EXCESSIVE HEAT.

CONDITIONS TO AVOID

AVOID EXPOSURE TO HEAT, SPARKS, AND OPEN FLAME.

INCOMPATIBILITY (MATERIALS TO AVOID)

AVOID STRONG OXIDIZING AGENTS.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS

NORMAL COMBUSTION FORMS CARBON DIOXIDE AND CARBON MONOXIDE.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

===== SECTION VI - HEALTH HAZARD DATA =====

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

MAY CAUSE RESPIRATORY TRACT IRRITATION. MAY CAUSE VISUAL IMPAIRMENT AND POSSIBLE PERMANENT BLINDNESS. MAY CAUSE EFFECTS SIMILAR TO THOSE DESCRIBED FOR INGESTION.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE

MILDLY IRRITATING TO THE SKIN. PROLONGED OR REPEATED LIQUID CONTACT CAN RESULT IN DEFATTING AND DRYING OF THE SKIN. SEVERELY IRRITATING TO THE EYES. HIGH VAPOR CONCENTRATIONS MAY BE IRRITATING.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

SKIN ABSORPTION OF SOLVENTS OVER AN EXTENDED PERIOD OF TIME MAY PRODUCE CENTRAL NERVOUS SYSTEM DEPRESSION WITH PHYSIOLOGICAL EFFECTS SIMILAR TO THAT OF INHALATION, INCLUDING DIZZINESS, NAUSEA, HEADACHE, AND LOSS OF COORDINATION.

SEE SECTION II HAZARDOUS INGREDIENTS.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

LIQUID IS MODERATELY TOXIC AND MAY BE HARMFUL OR FATAL IF SWALLOWED. INGESTION MAY CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION, NAUSEA, VOMITING, AND GASTROINTESTINAL IRRITATION. ASPIRATION INTO LUNGS MAY CAUSE CHEMICAL PNEUMONITIS, EDEMA. MAY BE FATAL IF SWALLOWED. MAY CAUSE IRRITATION OF THE DIGESTIVE TRACT, KIDNEY DAMAGE, AND SYSTEMIC TOXICITY WITH ACIDOSIS. MAY CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION, CHARACTERIZED BY EXCITEMENT, FOLLOWED BY HEADACHE, DIZZINESS, DROWSINESS, AND NAUSEA. ADVANCED STAGES MAY CAUSE COLLAPSE, UNCONSCIOUSNESS, COMA AND POSSIBLE DEATH DUE TO RESPIRATORY FAILURE.

HEALTH HAZARDS (ACUTE AND CHRONIC)

HEADACHE, NAUSEA, DIZZINESS, AND VOMITING MAY RESULT. IRRITATION TO EYES AND SKIN. CHRONIC - UNKNOWN. 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.

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CARCINOGENICITY: NTP CARCINOGEN: NO IARC MONOGRAPHS: NO OSHA REGULATED: YES

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

ANESTHESIA, RESPIRATORY TRACT IRRITATION, DERMITITIS, NAUSEA, VOMITING.

EMERGENCY AND FIRST AID PROCEDURES

EYES: FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES, OCCASIONALLY LIFTING THE UPPER AND LOWER LIDS. GET MEDICAL ATTENTION IMMEDIATELY.

SKIN: GET MEDICAL AID. WASH SKIN WITH PLENTY OF SOAP AND WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING.

INGESTION: IF VICTIM IS CONSCIOUS AND ALERT, GIVE 2-4 CUPFULS OF MILK OR WATER. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. GET MEDICAL AID IMMEDIATELY. INDUCE VOMITING BY GIVING ONE TEASPOON OF SYRUP OF IPECAC.

INHALATION: REMOVE FROM EXPOSURE TO FRESH AIR. IF BREATHING IS DIFFICULT, GIVE OXYGEN. IF BREATHING HAS STOPPED, GIVE ARTIFICIAL RESPIRATION. KEEP PERSON WARM AND QUIET. GET MEDICAL ATTENTION IMMEDIATELY. NOTES TO PHYSICIAN: EFFECTS MAY BE DEALYED. ETHANOL MAY INHIBIT METABOLISM.

===== SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE =====

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

CONTAIN SPILLED LIQUID. FOR SMALL SPILLS, ADD DRY MATERIAL TO CONTAIN. REMOVE BULK OF LIQUID AND ADD DRY MATERIAL TO ABSORB REMAINING LIQUID. CONTAIN RIZE FOR DISPOSAL. FLUSH AREA WITH WATER TO REMOVE RESIDUES.

WASTE DISPOSAL METHOD

COLLECT ABSORBENT/WATER/SPILLED LIQUID MIXTURE INTO METAL CONTAINERS AND ADD ENOUGH WATER TO COVER. CONSULT LOCAL, STATE & FEDERAL HAZARDOUS WASTE REGULAT'N BEFORE DISPOSING INTO APPROVED HAZARDOUS WASTE LANDFILLS. OBEY RELEVANT LAWS.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

STORE IN WELL VENTILATED AREA TO AVOID BUILD-UP OF VAPOR CONCENTRATIONS. STORE AT TEMPERATURES BETWEEN 40F AND 90F. KEEP FROM FREEZING.

OTHER PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN.

KEEP CONTAINER TIGHTLY CLOSED WHEN NOT IN USE.

NOTICE: REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OCCUPATIONAL OVEREXPOSURE TO SOLVENTS WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE. DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS OF THIS PRODUCT MAY BE HARMFUL. DO NOT PRESSURIZE, CUT OR WELD, DRILL, GRIND, OR EXPOSE CONTAINERS TO HEAT, SPARKS, OPEN FLAME OR OTHER SOURCES OF IGNITION.

===== SECTION VIII - CONTROL MEASURES =====

RESPIRATORY PROTECTION

AVOID PROLONGED OR REPEATED BREATHING OF VAPORS. IF EXPOSURE MAY OR DOES EXCEED OCCUPATIONAL EXPOSURE LIMITS (SEC II) USE A NIOSH-APPROVED RESPIRATOR TO PREVENT OVEREXPOSURE. IN ACCORDANCE WITH 29 CFR 1910.134 USE EITHER AN AIR

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PURIFYING RESPIRATOR FOR ORGANIC VAPORS OR AN AIR SUPPLIED SELF CONTAINED BREATHING APPRATUS.

VENTILATION

GENERAL MECHANICAL VENTILATION OR LOCAL EXHAUST SHOULD BE SUITABLE TO KEEP VAPOR CONCENTRATIONS BELOW TLV. VENTILATION EQUIPMENT MUST BE EXPLOSION PROOF. USE IN WELL VENTILATED AREA.

PROTECTIVE GLOVES

IMPERMEABLE CHEMICAL HANDLING GLOVES FOR SKIN PROTECTION.

EYE PROTECTION

USE CHEMICAL SAFETY GLASSES, GOGGLES, OR FACESHIELDS FOR EYE PROTECTION.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT

USE IMPERMEABLE APRONS AND PROTECTIVE CLOTHING WHENEVER POSSIBLE TO PREVENT SKIN CONTACT. EYE WASH AND SAFETY SHOWERS IN THE WORKPLACE ARE RECOMMENDED.

WORK/HYGIENIC PRACTICES

WASH HANDS BEFORE EATING, DRINKING, SMOKING, OR USING TOILET FACILITIES.

===== SECTION IX - DISCLAIMER =====

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA AVAILABLE TO US AND IS BELIEVED TO BE CORRECT. WOOD KOTE PRODUCTS MAKES NO WARRANTY, EXPRESSED OR IMPLIED REGARDING THE ACCRUACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF. WOOD KOTE PRODUCTS ASSUMES NO RESPONSIBILITY FOR INJURY FROM THE USE OF THE PRODUCT DESCRIBED HEREIN.