

MATERIAL SAFETY DATA SHEET

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SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION
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PRODUCT NAME: OAK KOTE 113

MANUFACTURER:
OAK INTERNATIONAL, INC.
1160 WHITE STREET
STURGIS, MI 49091
PH. (269) 651-9790
FAX (269) 651-7849

FORMULA: TRADE SECRET
CHEMICAL FAMILY: ACID CLEANER

DATE: 06/06 REV.

SECTION REVISED: 1

24 Hr. Emergency Response 1-800-424-9300

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SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS
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<u>INGREDIENT</u>	<u>CAS NUMBER</u>	<u>%</u>	<u>TLV</u>
ETHYLENE GLYCOL MONOBUTYL ETHER	111-76-2		<3 25 PPM ACGIH, SKIN
PHOSPHORIC ACID	7664-38-2		<2 1 MG/CUM PEL 3 MG/CUM STEL

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SECTION 3: HAZARD IDENTIFICATION
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POTENTIAL HEALTH EFFECTS

SKIN: REPEATED OR PROLONGED EXPOSURE MAY CAUSE SKIN IRRITATION. EXCESSIVE EXPOSURE MAY CAUSE CHEMICAL BURNS.

EYES: VAPOR CONCENTRATIONS MAY BE IRRITATING TO THE EYES. PRODUCT MAY CAUSE REDDENING WITH CONTACT, MAY CAUSE MODERATE CORNEAL INJURY.

INGESTION: COULD CAUSE GASTROINTESTINAL DISCOMFORT IF SWALLOWED IN SMALL AMOUNTS INCIDENTAL TO NORMAL HANDLING OPERATIONS.

INHALATION: EXCESSIVE EXPOSURE MAY CAUSE IRRITATION TO THE UPPER RESPIRATORY TRACT.

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SECTION 4: FIRST AID MEASURES
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INHALATION: USING PROPER RESPIRATORY PROTECTION, REMOVE TO FRESH AIR. START ARTIFICIAL RESPIRATION IF BREATHING HAS STOPPED. KEEP AT REST. CALL FOR IMMEDIATE MEDICAL ATTENTION.

EYES: FLUSH WITH LARGE QUANTITIES OF WATER FOR 15 MINUTES. SEEK MEDICAL ATTENTION IF IRRITATION CONTINUES.

SKIN: WASH WITH WATER FOR 15 MINUTES. REMOVE ALL CONTAMINATED CLOTHING AND LAUNDRY BEFORE REUSE. IF IRRITATION CONTINUES, CONSULT A PHYSICIAN.

INGESTION: DO NOT INDUCE VOMITING. GIVE LARGE QUANTITIES OF WATER. IF AVAILABLE GIVE SEVERAL GLASSES OF MILK. GET MEDICAL ATTENTION IMMEDIATELY.

SECTION 5: FIRE FIGHTING MEASURES

FLASH POINT: N/A

FLAMMABILITY LIMITS IN AIR: N/A

AUTO IGNITION TEMPERATURE: NO INFORMATION FOUND

EXTINGUISHING MEDIA: USE PROPER EXTINGUISHING MEDIA FOR SURROUNDING FIRE

SPECIAL FIRE FIGHTING PROCEDURES:

THE USE OF SELF-CONTAINED BREATHING APPARATUS IS RECOMMENDED. WATER MAY BE AN UNSUITABLE EXTINGUISHING MEDIA, BUT MAY PROVE USEFUL IN KEEPING SURROUNDING CONTAINERS COOL.

UNUSUAL FIRE FIGHTING HAZARDS: NONE

SECTION 6: ACCIDENTAL RELEASE MEASURES

IF SPILL OCCURS: SHUT OFF IGNITION SOURCE. CONTAIN LARGE SPILL FOR RECLAMATION, ABSORB INTO INERT MATERIAL, KEEP FROM ENTERING WATERWAYS OR SEWERS. SWEEP UP. ADVISE EPA AND STATE AGENCY IF REQUIRED.

ROUTES OF ENTRY: SKIN CONTACT, INHALATION OF MISTS

SECTION 7: STORAGE AND HANDLING

STORAGE AND HANDLING: STORE AWAY FROM OPEN FLAMES AND EXCESSIVE HEAT. KEEP FROM FREEZING. WASH HANDS WITH SOAP AND WATER BEFORE EATING, DRINKING OR SMOKING.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

EYE PROTECTION: USE SAFETY GOGGLES.

RESPIRATORY: NORMALLY NOTHING NEEDED IN TYPICAL APPLICATIONS. IF PRODUCT IS MISTED AND CONCENTRATIONS EXCEED THE LIMITS GIVEN, USE NIOSHA/MSHA APPROVED RESPIRATOR.

VENTILATION: LOCAL EXHAUST SUFFICIENT, UNLESS USED IN CONFINED SPACE, THEN DILUTION VENTILATION MAY BE NECESSARY.

PROTECTIVE CLOTHING: OIL RESISTANT GLOVES, SAFETY GLASSES OR GOGGLES, LONG SLEEVES CHEMICAL APRON IF SPLASHING OCCURS.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

BOILING RANGE: 212 DEGREES (F)

COLOR: GREEN-YELLOW

PERCENT VOLATILE:>82

APPEARANCE: CLEAR LIQUID

SOLUBILITY IN WATER: SOLUBLE

ODOR: BLAND

REACTIVITY IN WATER: NON-REACTIVE

SPECIFIC GRAVITY: 1.05

VAPOR PRESSURE: NA

EVAPORATION RATE: 1
(WATER=1)

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SECTION 10: STABILITY AND REACTIVITY
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STABILITY: STABLE

MATERIALS AND CONDITIONS TO AVOID INCOMPATIBILITY: STRONG OXIDIZING AND REDUCING AGENTS. ACIDS

HAZARDOUS DECOMPOSITION PRODUCTS: NONE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

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SECTION 11: TOXICOLOGICAL INFORMATION
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NOT LISTED AS A CARCINOGEN BY:

OSHA
NATIONAL TOXICOLOGY PROGRAM (NTP)
I.A.R.C. MONOGRAPHS

ETHYLENE GLYCOL N-BUTYL ETHER, PRESENT IN THIS PRODUCT AT LESS THAN 3% HAS CAUSED RED BLOOD CELL HEMOLYSIS IN LABORATORY ANIMALS AND SECONDARY INJURY TO THE KIDNEY AND LIVER. HOWEVER, HUMANS APPEAR TO BE RESISTANT TO THIS EFFECT.

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SECTION 12: ECOLOGICAL INFORMATION
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NO SPECIFIC DATA IS AVAILABLE FOR THIS PRODUCT. PLEASE REFER TO SECTION 6 FOR INFORMATION REGARDING ACCIDENTAL RELEASES AND SECTION 15 FOR REGULATORY REPORTING INFORMATION.

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SECTION 13: DISPOSAL CONSIDERATIONS
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WASTE DISPOSAL: REMOVE BY LICENSED WASTE HAULER FOR RECLAMATION OR DISPOSAL IN ACCORDANCE WITH APPLICABLE LOCAL, COUNTY, STATE AND FEDERAL REGULATIONS.

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SECTION 14: TRANSPORTATION INFORMATION
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THE DESCRIPTION SHOWN MAY NOT APPLY TO ALL SHIPPING SITUATIONS. CONSULT 49CFR OR APPROPRIATE DANGEROUS GOODS REGULATIONS FOR ADDITIONAL DESCRIPTION REQUIREMENTS AND MODE-SPECIFIC OR QUANTITY-SPECIFIC SHIPPING REQUIREMENTS.

DOT SHIPPING NAME: ACIDIC CLEANER

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SECTION 15: REGULATORY INFORMATION
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TOXIC SUBSTANCE CONTROL ACT (TSCA) STATUS:
THE INGREDIENTS OF THIS PRODUCT ARE ON THE TSCA INVENTORY.

SARA III

THIS PRODUCT CONTAINS THE FOLLOWING SUBSTANCES SUBJECT TO THE REPORTING REQUIREMENTS IN SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986:

<u>INGREDIENT</u>	<u>CAS NUMBER</u>	<u>%</u>
PHOSPHORIC ACID	7664-38-2	<4
ETHYLENE GLYCOL MONOBUTYL ETHER	111-76-2	<6

SECTION 302 THRESHOLD PLANNING QUANTITY: N/A

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SECTION 16: OTHER INFORMATION
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HMIS RATING:

HEALTH: 2	KEY
FLAMMABILITY: 0	4 = SEVERE
REACTIVITY: 0	3 = SERIOUS
	2 = MODERATE
	1 = SLIGHT
	0 = MINIMAL

NOTE: THE OPINIONS EXPRESSED HEREIN ARE THOSE OF QUALIFIED EXPERTS WITHIN OAK INTERNATIONAL, INC. AND OF THEIR SUPPLIERS. WE BELIEVE THAT THE INFORMATION CONTAINED HEREIN IS CURRENT AS OF THE DATE OF THIS MATERIAL DATA SHEET. SINCE THE USE OF THIS INFORMATION AND OF THESE OPINIONS AND THE CONDITION AND USE OF THE PRODUCT ARE NOT WITHIN THE CONTROL OF OAK INTERNATIONAL, INC. IT IS THE USER'S OBLIGATION TO DETERMINE THE CONDITIONS OF SAFE USE OF THE PRODUCT.