

MATERIAL SAFETY DATA SHEET

Date Printed: January 1, 2004

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SECTION I - MANUFACTURER & PRODUCT IDENTIFICATION

MANUFACTURERS NAME:

AKZO NOBEL COATINGS, INC.

STREET ADDRESS:

1845 MAXWELL STREET
TROY, MICHIGAN 48084

PREPARED BY:

RESEARCH & DEVELOPMENT DEPT.

DATE OF PREPARATION:

December 18, 2003

TELEPHONE NUMBERS:

8:00AM - 4:45PM (248) 637-0400
CHEMTREC (800) 424-9300

PRODUCT CLASS:

ALKYD COATING

MANUFACTURERS CODE IDENTIFICATION:

00AMK46458005 NATURAL OAK
00AMK46458045 MAHOGANY
00AMK46458077 CEDAR
00AMK46458078 NATURAL

TRADE NAME:

CETOL DEK

SECTION II - HAZARDOUS INGREDIENTS

- | 1. | <u>CHEMICAL NAME</u> | <u>COMMON NAME</u> | <u>% BY WT.</u> | <u>CAS #</u> | <u>VAPOR PRESSURE</u> |
|----|--------------------------------------------------|------------------------------------|--------------------------------|----------------------------------|------------------------------|
| | SOLVENT NAPHTHA
(PETROLEUM),LIGHT
AROMATIC | AROMATIC 100 | 1-5 | 64742-95-6 | <3.0 |
| | | <u>EXPOSURE LIMITS:</u> | | | |
| | | MFGR – TWA | | 50 ppm - 245 Mg/M ³ | |
| | | PEL – TWA, as Petroleum Distillate | | 500 ppm – 2000 Mg/M ³ | |
| 2. | <u>CHEMICAL NAME</u> | <u>COMMON NAME</u> | <u>% BY WT.</u> | <u>CAS #</u> | <u>VAPOR PRESSURE</u> |
| | METHYL ETHYL
KETOXIME | MEKO | <0.5 | 96-29-7 | 10.0 |
| | | <u>EXPOSURE LIMITS:</u> | | | |
| | | NONE ESTABLISHED | | | |
| | POSSIBLE CARCINOGENIC HAZARD – SEE SECTION VI | | | | |
| 3. | <u>CHEMICAL NAME</u> | <u>COMMON NAME</u> | <u>% BY WT.</u> | <u>CAS #</u> | <u>VAPOR PRESSURE</u> |
| | 1,2,4-TRIMETHYL
BENZENE | PSEUDOCUMENE | 1-5 | 95-63-6 | Not Applicable |
| | | <u>EXPOSURE LIMITS:</u> | | | |
| | | TLV - TWA | 25 ppm - 123 Mg/M ³ | | |

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SECTION II - HAZARDOUS INGREDIENTS (CONT.)

<u>CHEMICAL NAME</u>	<u>COMMON NAME</u>	<u>% BY WT.</u>	<u>CAS #</u>	<u>VAPOR PRESSURE</u>
4. STODDARD SOLVENT	MINERAL SPIRITS	30-35	8052-41-3	2.0

EXPOSURE LIMITS:

TLV - TWA 100 ppm
PEL - TWA 500 ppm - 2900 Mg/M³

SECTION II - HAZARDOUS INGREDIENTS (CONTINUED)

<u>CHEMICAL NAME</u>	<u>COMMON NAME</u>	<u>% BY WT.</u>	<u>CAS #</u>	<u>VAPOR PRESSURE</u>
5. STODDARD SOLVENT EXEMPT	MINERAL SPIRITS RULE 66	5-10	8052-41-3	2.0

EXPOSURE LIMITS:

MFGR. - TWA 100 ppm
PEL - TWA 500 ppm - 2900 Mg/M³

<u>CHEMICAL NAME</u>	<u>COMMON NAME</u>	<u>% BY WT.</u>	<u>CAS #</u>	<u>VAPOR PRESSURE</u>
6. LIGHT PETROLEUM DISTILLATE	PETROLEUM SOLVENT	5-10	64742-47-8	2.0

EXPOSURE LIMITS:

PEL - TWA, as Petroleum Distillate 500 ppm - 2000 Mg/M³

<u>CHEMICAL NAME</u>	<u>COMMON NAME</u>	<u>% BY WT.</u>	<u>CAS #</u>	<u>VAPOR PRESSURE</u>
7. XYLENE	XYLENE	1-5	1330-20-7	9.5

EXPOSURE LIMITS:

TLV - TWA 100 ppm
TLV - STEL 150 ppm
PEL - TWA 100 ppm - 435 Mg/M³

<u>CHEMICAL NAME</u>	<u>COMMON NAME</u>	<u>% BY WT.</u>	<u>CAS #</u>	<u>VAPOR PRESSURE</u>
8. ETHYL BENZENE	AROMATIC SOLVENT	1-2	100-41-4	10.0

EXPOSURE LIMITS:

TLV - TWA 100 ppm
TLV - STEL 125 ppm
PEL - TWA 100 ppm - 435 Mg/M³

POSSIBLE CARCINOGENIC HAZARD - SEE SECTION VI

SECTION II - HAZARDOUS INGREDIENTS (CONT.)

<u>CHEMICAL NAME</u>	<u>COMMON NAME</u>	<u>% BY WT.</u>	<u>CAS #</u>	<u>VAPOR PRESSURE</u>
9. Dipropylene glycol monomethyl ether	DPM	1-5	34590-94-8	<1.0

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EXPOSURE LIMITS:

TLV - TWA	100 ppm
TLV - STEL	150 ppm
PEL - TWA	100 ppm - 600 Mg/M ³
PEL - STEL	150 ppm - 900 Mg/M ³

Skin Hazard

SECTION III - PHYSICAL DATA

BOILING RANGE:

279 - 490° F

EVAPORATION RATE VS. ETHER:

SLOWER

PERCENT VOLATILE BY VOLUME:

66.1-66.6

VAPOR DENSITY:

HEAVIER THAN AIR

WEIGHT PER GALLON (LBS):

7.5-7.6

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:

104° F

LEL:

0.9

O.S.H.A. FLAMMABILITY CLASS:

COMBUSTIBLE LIQUID - CLASS II

EXTINGUISHING METHOD:

FOAM, CARBON DIOXIDE, DRY CHEMICAL

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. APPLICATION TO HOT SURFACES REQUIRES SPECIAL PRECAUTIONS. DURING EMERGENCY CONDITIONS OVER EXPOSURE TO DECOMPOSITION PRODUCTS MAY CAUSE A HEALTH HAZARD. SYMPTOMS MAY NOT BE IMMEDIATELY APPARENT. OBTAIN MEDICAL ATTENTION.

SPECIAL FIRE FIGHTING PROCEDURES:

WATER MAY BE INEFFECTIVE. WATER SHOULD BE USED TO COOL CONTAINERS EXPOSED TO FIRE. FIRE FIGHTING PERSONNEL SHOULD WEAR SELF-CONTAINED BREATHING APPARATUS.

SECTION V - REACTIVITY DATA

STABILITY:

STABLE

INCOMPATIBILITY (MATERIALS TO AVOID):

NONE REASONABLY FORESEEABLE

HAZARDOUS DECOMPOSITION PRODUCTS:

CARBON MONOXIDE, CARBON DIOXIDE, SMOKE, OXIDES OF NITROGEN

HAZARDOUS POLYMERIZATION:

WILL NOT OCCUR

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CONDITIONS TO AVOID:

NOT APPLICABLE

SECTION VI – HEALTH HAZARD DATA TOXICOLOGICAL PROPERTIES AND FIRST AID MEASURES

THRESHOLD LIMIT VALUE:

SEE SECTION II

EMERGENCY AND FIRST AID PROCEDURES:

INHALATION: MOVE TO FRESH AIR. GIVE ARTIFICIAL RESPIRATION IF NECESSARY.
SKIN CONTACT: WASH WITH SOAP AND WATER.
EYE CONTACT: FLUSH WITH WATER FOR AT LEAST 15 MINUTES, CONSULT A PHYSICIAN.
INGESTION: DRINK ONE OR TWO GLASSES OF WATER TO DILUTE. **DO NOT** INDUCE VOMITING. CONSULT PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY. TREAT SYMPTOMATICALLY.
MEDICAL CONDITIONS PRONE TO AGGRAVATION: NONE EXPECTED.

THE FOLLOWING **ACUTE AND CHRONIC HAZARD STATEMENTS** HAVE BEEN REPORTED TO BE ASSOCIATED WITH THE INDIVIDUAL HAZARDOUS INGREDIENTS IN THESE PRODUCTS. THE HAZARDS MAY NOT ALL BE ASSOCIATED WITH ALL FINISHED PRODUCTS.

ACUTE:

- ☞ Excessive vapor concentration in air, especially in confined spaces, may cause asphyxiation.
- ☞ Excessive inhalation of vapors can cause nasal, throat and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, and possible unconsciousness.
- ☞ Inhalation of vapors or spray mist may result in functional and destructive injury of the liver and kidney.
- ☞ Excessive inhalation of vapor may cause an anesthetic effect and eventually loss of consciousness.
- ☞ Corrosive to the eyes, may cause burns and permanent damage.
- ☞ Vapors may cause severe eye irritation, redness, tearing, and blurred vision.
- ☞ Prolonged skin contact may lead to extraction of natural oils with resultant dry skin, cracking, irritation, and dermatitis.
- ☞ May be absorbed through the skin, causing possible systemic poisoning.
- ☞ Swallowing large amounts may cause liver and kidney damage.
- ☞ Swallowing may cause gastrointestinal irritation, nausea, vomiting, and diarrhea.
- ☞ Aspiration of material into the lungs may cause chemical pneumonitis, which can be fatal.

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

SECTION VI – HEALTH HAZARD DATA TOXICOLOGICAL PROPERTIES AND FIRST AID MEASURES (CONT.)

CHRONIC:

- ☞ Based on lab animal tests, methyl ethyl ketoxime has been shown to cause liver cancer in rodents. Relevance to humans is questionable.
- ☞ This product contains ethylbenzene which has been shown to cause cancer in laboratory animals by inhalation and is classified as a suspected carcinogen by IARC (Group 2B).
- ☞ Health studies have shown that many petroleum hydrocarbons pose potential human health risks which may vary from person to person. As a precaution, exposure to liquids and vapors should be minimized.
- ☞ Prolonged or continuous inhalation of vapors may cause blood cell damage.
- ☞ Repeated or prolonged inhalation of vapor or spray mist may cause liver and kidney damage.
- ☞ Repeated inhalation of vapor or spray mist may cause cardiac disorders.
- ☞ Repeated inhalation of vapor or spray mist may cause red blood cell and leucocyte disorders which may result in an anemic condition.

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SECTION VII - SPILL OR LEAK PROCEDURES

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

REFER TO PROTECTIVE MEASURES LISTED IN SECTIONS IV, V, VI, VIII, AND IX.
REMOVE ALL SOURCES OF IGNITION. AVOID BREATHING VAPORS. VENTILATE AREA. REMOVE WITH INERT ABSORBENT.

WASTE DISPOSAL METHOD:

INCINERATE IN AN APPROVED FACILITY, DO NOT INCINERATE CLOSED CONTAINERS. DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL POLLUTION CONTROL REQUIREMENTS.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:

ADEQUATE VENTILATION IS REQUIRED. USE NIOSH/MSHA APPROVED RESPIRATOR DEVICE. SEE YOUR SAFETY EQUIPMENT SUPPLIER FOR EVALUATION AND RECOMMENDATION. IN CONFINED AREAS USE NIOSH/MSHA APPROVED AIRLINE RESPIRATOR OR HOOD.

VENTILATION:

PROVIDE SUFFICIENT VENTILATION TO KEEP VAPOR CONCENTRATION BELOW THE GIVEN TLV. FOR BAKING FINISHES, EXHAUST VAPORS EMITTED ON HEATING. REMOVE DECOMPOSITION PRODUCTS FORMED DURING WELDING OR FLAME CUTTING OF SURFACES COATED WITH THIS PRODUCT.

PROTECTIVE GLOVES:

REQUIRED FOR PROLONGED OR REPEATED CONTACT. REFER TO SAFETY EQUIPMENT SUPPLIER FOR EFFECTIVE GLOVE RECOMMENDATIONS.

EYE PROTECTION:

USE SAFETY EYEWEAR DESIGNED TO PROTECT AGAINST SPLASH OF LIQUIDS.

SECTION VIII - SPECIAL PROTECTION INFORMATION (CONT.)

HYGIENIC PRACTICES:

WASH HANDS BEFORE EATING, SMOKING OR USING WASHROOM.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN TRANSPORTATION HANDLING AND STORAGE:

STORE CONTAINERS OUT OF SUN AND AWAY FROM HEAT, SPARKS AND OPEN FLAMES. CLOSE CONTAINERS AFTER EACH USE. CONSULT N.F.P.A. CODE FOR ADDITIONAL STORAGE REQUIREMENTS.

OTHER PRECAUTIONS:

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DO NOT TAKE INTERNALLY. USE APPROVED BONDING AND GROUNDING PROCEDURES. OBSERVE LABEL PRECAUTIONS. KEEP CLOSURES TIGHT AND CONTAINER UPRIGHT TO PREVENT LEAKAGE. NEVER USE PRESSURE TO EMPTY - DRUM IS NOT A PRESSURE VESSEL. AVOID BREATHING SANDING DUST. DO NOT WELD OR FLAME CUT AN EMPTY DRUM. DO NOT HANDLE UNTIL THE MANUFACTURER'S SAFETY PRECAUTIONS HAVE BEEN READ AND UNDERSTOOD.

IMPORTANT! STORAGE AND DISPOSAL:

DANGER! RAGS, STEEL WOOL, BRUSHES, ROLLERS AND ANY WET WASTE SOAKED WITH THIS PRODUCT MAY SPONTANEOUSLY CATCH FIRE IF IMPROPERLY DISPOSED OF OR STORED. To avoid a spontaneous combustion fire, immediately after each use place rags, steel wool, brushes, rollers or waste in a sealed, water-filled metal container. Keep away from combustible materials. For disposal guidance, contact your household refuse collection service, fire department, county or state government environmental control agency.

SECTION X - OTHER INFORMATION

CALIFORNIA PROPOSITION 65:

WARNING: THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

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SECTION X - OTHER INFORMATION (CONT.)

SECTION 313 SUPPLIER NOTIFICATION

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT (SARA) OF 1986 AND 40CFR PART 372.

CAS #	CHEMICAL NAME	COLOR # 005 % BY WEIGHT	COLOR # 077 % BY WEIGHT	COLOR # 078 % BY WEIGHT
1330-20-7	Xylene	3.6	3.6	3.6
100-41-4	Ethyl Benzene	1.2	1.2	1.2
95-63-6	1,2,4-Trimethyl Benzene	2.3	2.3	2.3

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