

MATERIAL SAFETY DATA SHEET

DATE: January 1, 2001

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SECTION I - MANUFACTURER & PRODUCT INFORMATION

MANUFACTURERS NAME:

AKZO NOBEL COATINGS INC.

STREET ADDRESS:

1845 MAXWELL STREET
TROY, MI 48084

TELEPHONE NUMBERS:

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

PRODUCT CLASS:

Alkyd Coating

TRADE NAME:

CETOL 23 PLUS

MANUFACTURERS CODE: IDENTIFICATION:

00AMK42562005 NATURAL OAK
00AMK42562009 DARK OAK
00AMK42562014 ANTIQUE GREY
00AMK42562045 MAHOGANY
00AMK42562065 OLIVE GREEN
00AMK42562072 BUTTERNUT
00AMK42562077 CEDER
00AMK42562078 NATURAL
00AMK42562085 TEAK
00AMK42562091 BLUE SPRUCE
00AMK42562996 NATURAL LIGHT

SECTION II - HAZARDOUS INGREDIENTS

1.	CHEMICAL NAME STODDARD SOLVENT	COMMON NAME MINERAL SPIRITS	% BY WT. 20-25	CAS # 8052-41-3	VAPOR PRESSURE 2.0
		EXPOSURE LIMITS: TLV - TWA 100 ppm PEL - TWA 500 ppm - 2900 Mg/M ³			
2.	CHEMICAL NAME STODDARD SOLVENT EXEMPT	COMMON NAME MINERAL SPIRITS RULE 66	% BY WT. 1-5	CAS # 8052-41-3	VAPOR PRESSURE 2.0
		EXPOSURE LIMITS: MFGR. - TWA 100 ppm PEL - TWA 500 ppm - 2900 Mg/M ³			
3.	CHEMICAL NAME PETROLEUM DISTILLATE	COMMON NAME PETROLEUM SOLVENT	% BY WT. 20-25	CAS # 8030-30-6	VAPOR PRESSURE <10.0
		EXPOSURE LIMITS: TLV - TWA 400 ppm PEL - TWA 100 ppm - 400 Mg/M ³			
4.	CHEMICAL NAME XYLENE	COMMON NAME XYLENE	% BY WT. 1-5	CAS # 1330-20-7	VAPOR PRESSURE 9.5
		EXPOSURE LIMITS: TLV - TWA 100 ppm TLV - STEL 150 ppm PEL - TWA 100 ppm - 435 Mg/M ³			

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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. TITANIUM DIOXIDE	WHITE PIGMENT	1-5 ANTIQUE GREY & BLUE SPRUCE ONLY	13463-67-7	Not Applicable

EXPOSURE LIMITS:

TLV - TWA 10 Mg/M³
PEL - TWA, as Total Dust 15 Mg/M³

<u>CHEMICAL NAME</u>	<u>COMMON NAME</u>	<u>% BY WT.</u>	<u>CAS #</u>	<u>VAPOR PRESSURE</u>
6. METHYL ETHYL KETOXIME	MEKO	<0.5	96-29-7	10.0

EXPOSURE LIMITS:

NONE ESTABLISHED

POSSIBLE CARCINOGENIC HAZARD - SEE SECTION VI

<u>CHEMICAL NAME</u>	<u>COMMON NAME</u>	<u>% BY WT.</u>	<u>CAS #</u>	<u>VAPOR PRESSURE</u>
7. ETHYL BENZENE	AROMATIC SOLVENT	<0.5	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

<u>CHEMICAL NAME</u>	<u>COMMON NAME</u>	<u>% BY WT.</u>	<u>CAS #</u>	<u>VAPOR PRESSURE</u>
8. LIGHT PETROLEUM DISTILLATE	PETROLEUM SOLVENT	1-5	64742-47-8	2.0

EXPOSURE LIMITS:

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

SECTION III - PHYSICAL DATA

BOILING RANGE:

277°F - 490°F

EVAPORATION RATE:

Slower than ethyl ether.

PERCENT VOLATILE BY VOLUME:

61 - 64

VAPOR DENSITY:

HEAVIER THAN AIR

WEIGHT PER GALLON (LBS.):

7.4 - 7.6

SECTION IV - FIRE & EXPLOSION HAZARD DATA:

FLASH POINT:

L.E.L.:

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104°F SFCC

0.6

O.S.H.A. CLASSIFICATION:

COMBUSTIBLE LIQUID-CLASS II

EXTINGUISHING MEDIA

Foam, carbon dioxide, dry chemicals.

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, overexposure to decomposition products may cause a health hazard. Symptoms 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:

Carbons monoxide, carbon dioxide, smoke, oxides of nitrogen.

HAZARDOUS POLYMERIZATION:

Will not occur.

CONDITIONS TO AVOID:

Not applicable.

SECTION VI - HEALTH HAZARD DATA:

EMERGENCY AND FIRST AID PROCEDURES:

- INHALATION:** Move to fresh air. Give artificial respiration if necessary.
- SKIN CONTACT:** Wash with soap & water.
- EYE CONTACT:** Flush with water for at least 15 minutes, consult a physician.
- INGESTION:** Drink 1 or 2 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

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SECTION VI - HEALTH HAZARD DATA (CONT.):

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 HEALTH HAZARDS:

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.

Sanding dust or dry spray may cause irritation to the respiratory system. (Applies to Antique Grey, Ebony, and Blue Spruce only.)

Corrosive to the eyes. May cause eye burns and permanent damage.

Dry dust may cause mechanical eye irritation. (Applies to Antique Grey, Ebony, and Blue Spruce only.)

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.

Skin contact with liquid or spray mist may cause irritation, redness and itching.

Accumulations of sanding dust or dry spray on skin may lead to extraction of natural oils with resultant skin irritation. (Applies to Antique Grey, Ebony, and Blue Spruce only.)

May be absorbed through the skin, causing possible systemic poisoning.

Swallowing can 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.

CHRONIC HEALTH HAZARDS:

Based on lab animal test methyl ethyl ketoxime has been shown to cause liver cancer in rodents. Relevance to humans is questionable.

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 of petroleum products 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.

Prolonged and continuous exposure to an excessive concentration of dust of any kind may have an adverse pulmonary effect on some people. (Applies to Antique Grey and Blue Spruce only.)

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, VII 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 containers. Dispose of in accordance with federal, state and local pollution control requirements.

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SECTION VIII - SAFE HANDLING & USE 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 and L.E.L. for baking finishes, exhaust vapors emitted on heating. Remove decomposition products formed during welding or flame cutting of surfaces 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.

OTHER PROTECTIVE EQUIPMENT:

Eye bath and shower should be available. Use chemical resistant apron, boots or other clothing if needed to avoid repeated or frequent skin contact. Liquid may penetrate shoes and leather causing delayed irritation.

HYGIENIC PRACTICE:

Wash hands before eating, smoking or using washroom.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

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:

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 WASTE WET, SOAKED WITH THIS PRODUCT MAY SPONTANEOUSLY CATCH FIRE IF IMPROPERLY DISPOSED 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.

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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.

SECTION 313 SUPPLIER NOTIFICATION:

These products contain 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.

PRODUCT #	XYLENE 1330-20-7	ETHYL BENZENE 100-41-4
00AMK46429005	1.8%	0.4%
00AMK46429009	1.8%	0.4%
00AMK46429014	2.1%	0.5%
00AMK46429045	1.7%	0.4%
00AMK46429065	1.8%	0.4%
00AMK46429072	1.7%	0.4%
00AMK46429077	1.7%	0.4%
00AMK46429078	1.8%	0.4%
00AMK46429085	1.7%	0.4%
00AMK46429091	1.6%	0.4%
00AMK46429996	2.1%	0.5%

THIS INFORMATION IS FURNISHED WITHOUT WARRANTY, EXPRESSED OR IMPLIED, EXCEPT THAT IT IS ACCURATE TO THE BEST KNOWLEDGE OF AKZO NOBEL COATINGS. THE DATE ON THIS SHEET APPLIES ONLY TO THE SPECIFIC MATERIAL DESIGNATED HEREIN. AKZO NOBEL COATINGS ASSUMES NO LEGAL RESPONSIBILITY FOR USE OR RELIANCE UPON THIS MSDS.

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