

# MATERIAL SAFETY DATA SHEET

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## SECTION I - MANUFACTURER & PRODUCT IDENTIFICATION

**MANUFACTURER'S NAME:**

AKZO NOBEL COATINGS INC.

**STREET ADDRESS:**

1845 MAXWELL STREET  
TROY, MICHIGAN 48084

**PREPARED BY:**

RESEARCH & DEVELOPMENT DEPT.

**DATE OF PREPARATION:**

January 23, 2004

**TELEPHONE NUMBERS:**

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

**PRODUCT CLASS:**

MODIFIED ALKYD COATING

**MANUFACTURER'S CODE IDENTIFICATION:**

00AMK46612052 NAVAJO RED  
00AMK46612058 OXFORD BROWN  
00AMK46612100 WHITE  
00AMK46612156 CEDAR  
00AMK46612201 CHESTNUT BROWN  
00AMK46612202 TAUPE  
00AMK46612408 WOODLAND GREEN  
00AMK46612409 COLONIAL BLUE  
00AMK46612414 FOREST GREEN  
00AMK46612520 FOG GREY  
00AMK46612528 DRIFTWOOD

**TRADE NAME:**

RUBBOL DEK

## SECTION II - HAZARDOUS INGREDIENTS:

Chemical Name	Common Name	CAS #	Vapor Pressure	Exposure Limits	PPM	Mg/M <sup>3</sup>	% by wt.
1. Bentonite	Thixotrope	1302-78-9	N/A	None Established	---	---	1-5% Navajo Red, Oxford Brown, White, Chestnut Brown, Forest Green & Fog Grey
2. Light Petroleum Distillate	Petroleum Distillate	64742-47-8	2.0	PEL - TWA	500	2000	1-5% Navajo Red, Oxford Brown, White, Chestnut Brown, Forest Green & Fog Grey
3. Stoddard Solvent	Mineral Spirits	8052-41-3	2.0	TLV - TWA PEL - TWA	100 500	--- 2900	1-25%
4. Iron Oxide	Inorganic Metal Oxide Mixture	1309-37-1	N/A	TLV - TWA, fume, as Fe PEL - TWA, fume, as Fe total particulate	--- ---	5 10	1-10% Navajo Red & Chestnut Brown
5. Titanium Dioxide	Pigment	13463-67-7	N/A	TLV - TWA, as total dust PEL - TWA, as total dust	--- ---	10 15	1-20% White, Cedar, Woodland Green, Colonial Blue, Taupe, Fog Grey & Driftwood
6. Xylene	Xylol	1330-20-7	9.5	TLV - TWA - STEL PEL - TWA	100 150 100	--- --- 435	1-5% Navajo Red, Oxford Brown, White, Chestnut Brown, Forest Green & Fog Grey

## SECTION II - HAZARDOUS INGREDIENTS (CONTINUED)

Chemical Name	Common Name	CAS #	Vapor Pressure	Exposure Limits	PPM	Mg/M <sup>3</sup>	% by wt.
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7. Ethyl Benzene	Aromatic Solvent	100-41-4	10.0	TLV - TWA - STEL PEL - TWA	100 125 100	--- --- 435	<2% Forest Green
8. Methyl Ethyl Ketoxime	MEKO	96-29-7	10.0	None Established	----	----	<1%
9. Carbon Black	Black Pigment	1333-86-4	N/A	TLV - TWA PEL - TWA	--- ---	3.5 3.5	<5% Oxford Brown. <0.5% Chestnut Brown, Woodland Green, Colonial Blue, Forest Green, & Driftwood.
10. Cristobalite	Crystalline Silica	14464-46-1	N/A	TLV - TWA PEL - TWA	--- ---	0.05 0.05	<0.5% Navajo Red, Oxford Brown & Fog Grey
11. Calcium Carbonate	Chalk	1317-65-3	N/A	TLV - TWA PEL - TWA, as total dust	--- ---	10 15	5-15% Cedar, Taupe, Woodland Green, Colonial Blue, & Driftwood
12. Quartz SiO2	Crystalline Silica	14808-60-7	N/A	TLV - TWA PEL - TWA, as total dust	--- ---	0.1 30	<0.5% Cedar, Taupe, Woodland Green, Colonial Blue, & Driftwood
13. TALC	Extender	14807-96-6	N/A	TLV - TWA PEL - TWA	--- ---	2 20 Mppcf	10-15% Cedar, Taupe, Woodland Green, Colonial Blue, & Driftwood

## SECTION III - PHYSICAL DATA

**BOILING RANGE:**

171 - 385 ° F

**EVAPORATION RATE VS. ETHER:**

SLOWER

**PERCENT VOLATILE BY VOLUME:**

53.7 - 61.7

**VAPOR DENSITY:**

LIGHTER THAN AIR

**WEIGHT PER GALLON (LBS):**

8.1 - 9.7

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

**FLASH POINT:**

131° F SFCC

**LEL:**

.6

**O.S.H.A. FLAMABILITY CLASS:**

COMBUSTIBLE LIQUID - CLASS II

**EXTINGUISHING METHOD:**

FOAM, CARBON DIOXIDE, DRY CHEMICALS

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA (CONTINUED)

**UNUSUAL FIRE AND EXPLOSION HAZARDS:**

THIS PRODUCT HAS BEEN TESTED IN A CLOSED CUP TESTER AND FOUND NOT TO SUPPORT COMBUSTION, AS SUPPLIED. HOWEVER, DEHYDRATED RESIDUE FROM SPILLAGE OR DRIPPAGE MAY SUPPORT COMBUSTION. CLOSED CONTAINERS MAY BURST (DUE TO BUILD UP OF STEAM PRESSURE) WHEN EXPOSED TO EXTREME HEAT.

**SPECIAL FIRE FIGHTING PROCEDURES:**

TO PREVENT PRESSURE BUILD UP, WATER SHOULD BE USED TO COOL CONTAINERS EXPOSED TO FIRE.

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## 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

**CONDITIONS TO AVOID:**  
NOT APPLICABLE

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## 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

## SECTION VI - HEALTH HAZARD DATA TOXICOLOGICAL PROPERTIES AND FIRST AID MEASURES (CONTINUED)

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.
- ☞ SANDING DUST OR DRY SPRAY MAY CAUSE IRRITATION TO THE RESPIRATORY SYSTEM.
- ☞ EYE CONTACT CAUSES IRRITATION, REDNESS, TEARING, BLURRED VISION, AND A SENSATION OF SEEING HALOS AROUND LIGHTS.
- ☞ DRY DUST MAY CAUSE MECHANICAL EYE IRRITATION.
- ☞ PROLONGED SKIN CONTACT MAY LEAD TO EXTRACTION OF NATURAL OILS WITH RESULTANT DRY SKIN, CRACKING, IRRITATION, AND DERMATITIS.

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- ☞ ACCUMULATIONS OF SANDING DUST OR DRY SPRAY ON SKIN MAY LEAD TO EXTRACTION OF NATURAL OILS WITH RESULTANT SKIN IRRITATION.
- ☞ SWALLOWING MAY CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING, AND DIARRHEA.
- ☞ ASPIRATION OF MATERIAL INTO THE LUNGS MAY CAUSE CHEMICAL PNEUMONITIS, WHICH CAN BE FATAL.

## **CHRONIC:**

- ☞ NAVAJO RED, OXFORD BROWN, CEDAR, TAUPE, WOODLAND GREEN, COLONIAL BLUE, FOG GREY AND DRIFTWOOD CONTAIN CHRYSOTILLINE SILICA WHICH IS LISTED BY IARC AS A CARCINOGENIC TO HUMANS (GROUP 1) AND NTP AS A REASONABLY ANTICIPATED CARCINOGEN.
- ☞ OXFORD BROWN, CHESTNUT BROWN, WOODLAND GREEN, COLONIAL BLUE, FOREST GREEN AND DRIFTWOOD CONTAIN CARBON BLACK WHICH HAS BEEN SHOWN TO CAUSE CANCER IN LABORATORY ANIMALS BY INHALATION AND IS LISTED AS A SUSPECT CARCINOGEN BY IARC (GROUP 2B).
- ☞ NAVAJO RED, WHITE AND FOG GREY CONTAIN 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.
- ☞ REPEATED OR PROLONGED INHALATION OF VAPOR OR SPRAY MIST MAY CAUSE LIVER AND KIDNEY DAMAGE. APPLIES TO NAVAJO RED, OXFORD BROWN, WHITE, CHESTNUT BROWN, FOREST GREEN AND FOG GREY.
- ☞ REPEATED INHALATION OF VAPOR OR SPRAY MIST MAY CAUSE CARDIAC DISORDERS. APPLIES TO NAVAJO RED, OXFORD BROWN, WHITE, CHESTNUT BROWN, FOREST GREEN AND FOG GREY.
- ☞ REPEATED INHALATION OF VAPOR OR SPRAY MIST MAY CAUSE RED BLOOD CELL AND LEUCOCYTE DISORDERS WHICH MAY RESULT IN AN ANEMIC CONDITION. APPLIES TO NAVAJO RED, OXFORD BROWN, WHITE, CHESTNUT BROWN, FOREST GREEN AND FOG GREY.
- ☞ PROLONGED AND CONTINUOUS EXPOSURE TO AN EXCESSIVE CONCENTRATION OF DUST OF ANY KIND MAY HAVE AN ADVERSE PULMONARY EFFECT ON SOME PEOPLE.

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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.  
VENTILATE AREA AND 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.

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## OTHER PROTECTIVE EQUIPMENT:

EYE BATH AND SHOWER SHOULD BE AVAILABLE.

## HYGIENIC PRACTICES:

WASH HANDS BEFORE EATING, SMOKING, OR USING WASHROOM.

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## SECTION IX - SPECIAL PRECAUTIONS

### PRECAUTIONS TO BE TAKEN IN TRANSPORTATION HANDLING AND STORAGE:

DO NOT STORE IN HIGH TEMPERATURE AREA. PROTECT FROM FREEZING.

### OTHER PRECAUTIONS:

DO NOT TAKE INTERNALLY. AVOID PROLONGED CONTACT WITH SKIN. 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. THIS MATERIAL IS ELECTRICALLY CONDUCTIVE. DO NOT APPLY BY ELECTROSTATIC SPRAY EQUIPMENT UNLESS THE EQUIPMENT IS MODIFIED AND INTENDED FOR THE APPLICATION OF CONDUCTIVE COATINGS. DO NOT HANDLE UNTIL THE MANUFACTURER'S SAFETY PRECAUTIONS HAVE BEEN READ AND UNDERSTOOD.

## SECTION IX - SPECIAL PRECAUTIONS (CONTINUED)

### OTHER PRECAUTIONS:

TREATMENTS SUCH AS SANDING, WELDING, BURNING OFF, ETC. OF PAINT FILMS MAY GENERATE HAZARDOUS DUST AND/OR FUMES. WORK IN WELL VENTILATED AREAS. USE SUITABLE PERSONAL (RESPIRATORY) PROTECTIVE EQUIPMENT, AS NECESSARY.

#### **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.

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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.**

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THE STATEMENT ABOVE APPLIES TO THESE PRODUCTS:

00AMK46612052    NAVAJO RED  
00AMK46612058    OXFORD BROWN  
00AMK46612156    CEDAR  
00AMK46612201    CHESTNUT BROWN  
00AMK46612202    TAUPE  
00AMK46612408    WOODLAND GREEN  
00AMK46612409    COLONIAL BLUE  
00AMK46612414    FOREST GREEN  
00AMK46612520    FOG GREY  
00AMK46612528    DRIFTWOOD

**WARNING: THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.**

THE STATEMENT ABOVE APPLIES TO THESE PRODUCTS:

00AMK46612100    WHITE

### SECTION 313 SUPPLIER NOTIFICATION

THIS PRODUCT, RUBBOL DEK, 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.

COLOR	XYLENE 1330-20-7	ETHYL BENZENE 100-41-4
NAVAJO RED	2.4%	---
OXFORD BROWN	2.8%	---
WHITE	2.5%	---
CHESTNUT BROWN	3.0%	---
FOREST GREEN	3.4%	1.0%
FOG GREY	1.2%	---

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