

MATERIAL SAFETY DATA SHEET

Date Printed: January 1, 2001

Page 1 of 6

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:

January 1, 2001

TELEPHONE NUMBERS:

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

PRODUCT CLASS:

LINSEED OIL ALKYD COATING

MANUFACTURERS CODE IDENTIFICATION:

00AMK44405052 NAVAJO RED	00AMK44405408 WOODLAND GREEN
00AMK44405058 OXFORD BROWN	00AMK44405409 COLONIAL BLUE
00AMK44405100 WHITE	00AMK44405412 CAPE CODE GREY
00AMK44405156 CEDAR	00AMK44405413 BLACK
00AMK44405202 TAUPE	00AMK44405414 FOREST GREEN
00AMK44405400 CALIFORNIA RUSTIC	00AMK44405415 HERITAGE BLUE
00AMK44405402 RUSSET	00AMK44405417 NAVY BLUE
00AMK44405403 CHOCOLATE BROWN	00AMK44405528 DRIFTWOOD
00AMK44405407 GOLDEN SAND	

TRADE NAME:

OPAQUE SATIN

SECTION II - HAZARDOUS INGREDIENTS:

Chemical Name	Common Name	CAS #	Vapor Pressure	Exposure Limits	PPM	Mg/M ³	% by wt.
1. Carbon Black	Black Pigment	1333-86-4	N/A	TLV - TWA PEL - TWA	---	3.5 3.5	1-5% Oxford Brown and Black. <0.5% Taupe, Chocolate Brown, Golden Sand Woodland Green and Colonial Blue. <1% Heritage Blue and Driftwood.
2. Cristobalite	Crystalline Silica	14464-46-1	N/A	TLV - TWA PEL - TWA		0.05 5	<0.5% Taupe
3. Ethyl Benzene	Aromatic Solvent	100-41-4	10.0	TLV - TWA - STEL PEL - TWA	100 125 100	435	<0.5% Navajo Red, Oxford Brown, White, Cedar, Heritage Blue, Navy Blue and Driftwood. <0.5 Taupe
4. Light Petroleum Distillate	Petroleum Distillate	64742-47-8	2.0	PEL - TWA	500	2000	1-10 Navajo Red, California Ruatic, Russet, Chocolate Brown, Golden Sand Woodland Green , Colonial Blue, Cape Cod Grey, Black and Forest Green
5. Methyl Ether Ketoxime	MEKO	96-29-7	10.0	None Established	-----	-----	<0.5
6. Stoddard Solvent	Mineral Spirits	8052-41-3	2.0	TLV - TWA PEL - TWA	100 500	2900	15-30%
7. Stoddard Solvent Exempt	Mineral Spirits	8052-41-3	2.0	TLV - TWA PEL - TWA	100 500	2900	1-5% except Taupe

MSDS Code: 01.018

MATERIAL SAFETY DATA SHEET

Date Printed: January 1, 2001

Page 2 of 6

SECTION II - HAZARDOUS INGREDIENTS (CONTINUED):

Chemical Name	Common Name	CAS #	Vapor Pressure	Exposure Limits	PPM	Mg/M ³	% by wt.
8. Iron Oxide	Inorganic Metal Oxide Mixture	1309-37-1	N/A	TLV - TWA, fume, as Fe PEL - TWA, fume, as Fe	--- ---	5 10	1-10% Navajo Red, California Rustic, Russet, and Chocolate Brown.
9. Titanium Dioxide	Pigment	13463-67-7	N/A	TLV - TWA, as total dust PEL - TWA, as total dust	--- ---	10 15	20-25% White. 1-10% Cedar, California Rustic, Golden Sand and Woodland Green 10-20% Colonial Blue, Cape Code Grey, Heritage Blue and Driftwood.
10. Xylene	Xylol	1330-20-7	9.5	TLV - TWA - STEL PEL - TWA	100 150 100	435	1-5% Navajo Red, Oxford Brown, White, Cedar, Taupe, Russet, Black, Forest Green, Heritage Blue, Navy Blue and Driftwood.

SECTION III - PHYSICAL DATA**BOILING RANGE:**

212 - 490 DEG. F

EVAPORATION RATE VS. ETHER:

SLOWER

PERCENT VOLATILE BY VOLUME:

66.8 - 86.8

VAPOR DENSITY:

LIGHTER THAN AIR

WEIGHT PER GALLON (LBS):

7.85 - 9.25

SECTION IV - FIRE AND EXPLOSION HAZARD DATA**FLASH POINT:**

107° F SFCC

LEL:

.6

O.S.H.A. FLAMABILITY CLASS:

COMBUSTIBLE LIQUID - CLASS II

EXTINGUISHING METHOD:

FOAM, CARBON DIOXIDE, DRY CHEMICALS

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.

MSDS Code: 01.018

MATERIAL SAFETY DATA SHEET

Date Printed: January 1, 2001

Page 3 of 6

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

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.
- ☞ Sanding dust or dry spray may cause irritation to the respiratory system.
- ☞ Corrosive to the eyes. May cause eye burns and permanent damage.
- ☞ Eye contact causes irritation, redness, tearing, blurred vision, and a sensation of seeing halos around lights.
- ☞ Dry dust may cause mechanical eye irritation.
- ☞ 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.
- ☞ May be absorbed through the skin, causing possible systemic poisoning.
- ☞ Swallowing may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
- ☞ Aspiration of material into the lungs may cause chemical pneumonitis, which can be fatal.

MSDS Code: 01.018

MATERIAL SAFETY DATA SHEET

Date Printed: January 1, 2001

Page 4 of 6

CHRONIC:

- 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.
- 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.
- Taupe (00AMK44405202) contains cristylline silica is listed by IARC as carcinogenic to humans (Group 1) and NTP as a reasonably anticipated carcinogen
- Based on lab animal tests, methyl ethyl ketoxime has been shown to cause liver cancer in rodents. Relevance to humans is questionable.
- Oxford Brown (00AMK44405058), Taupe (00amk44405202), Chocolate Brown (00amk44405403), Golden Sand Black (00AMK44405407), Woodland Green (00AMK44405408), Colonial Blue (00AMK44405409), Blach (00AMK44405413), Heritage Blue (00AMK44405415), and Driftwood (00AMK44405528) 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, (00AMK44405052, Oxford Brown (00AMK44405058), White (00AMK44405100), Cedar (00AMK44405156), Taupe (00AMK44405202), Heritage Blue (00AMK44405415), Navy Blue (00AMK44405417) and Driftwood (00AMK44405528) 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).

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.

MSDS Code: 01.018

MATERIAL SAFETY DATA SHEET

Date Printed: January 1, 2001

Page 5 of 6

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 IS REQUIRED 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.

OTHER PROTECTIVE EQUIPMENT:

EYE BATH AND SHOWER SHOULD BE AVAILABLE.

HYGIENIC PRACTICES:

WASH HANDS BEFORE EATING, SMOKING OR USING WASHROOM.

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 (CON'T)

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.

SECTION X - OTHER INFORMATION

MSDS Code: 01.018

MATERIAL SAFETY DATA SHEET

Date Printed: January 1, 2001

Page 6 of 6

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

THIS PRODUCT, OPAQUE SATIN, 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	2.2%	0.4%
OXFORD BROWN	2.8%	0.4%
WHITE	1.8%	0.4%
CEDAR	2.3%	0.4%
TAUPE	2.9%	0.7%
RUSSET	1.1%	
BLACK	1.2%	
FOREST GREEN	1.3%	
HERITAGE BLUE	2.0%	0.4%
NAVY BLUE	2.9%	0.4%
DRIFTWOOD	2.3%	0.4%

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

MSDS Code: 01.018