

MATERIAL SAFETY DATA SHEET

Date Printed: March 25, 2003

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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:

March 25, 2003

TELEPHONE NUMBERS:8:00AM - 4:45PM (248) 637-0400
CHEMTREC (800) 424-9300**PRODUCT CLASS:**

OIL MODIFIED POLYURETHANE COATING

MANUFACTURERS CODE IDENTIFICATION:1664 MATTE
1665 SATIN
1666 GLOSS**TRADE NAME:**

SYNTEKO PRO-SERIES POLYURETHANE

SECTION II - HAZARDOUS INGREDIENTS:

Chemical Name	Common Name	CAS #	Vapor Pressure	Exposure Limits	PPM	Mg/M ³	% by wt.
Stoddard Solvent	Mineral Spirits	8052-41-3	2.0	TLV - TWA	100	525	40-50%
		6474-24-78	2.0	PEL - TWA TLV - TWA PEL - TWA	100 100 100	525 525 525	10-20%
Solvent Naphtha (Petroleum), Medium Naphtha	140 Solvent	64742-88-7	0.5	MFR - TWA	100	--	<7%
Amorphous Silica	Silica Gel	112926-00-8	N/A	TLV - TWA, as total dust PEL - TWA	--- ---	10 6	<5% Satin and Matte
Methyl Ethyl Ketoxime	MEKO	96-29-7	10.0	TLV - Not Established PEL - Not Established Potential carcinogen hazard, see Section VI	--- ---	--- ---	<0.5%
Ethyl Benzene	Aromatic Solvent	100-41-4	10.0	TLV - TWA	100	434	<0.5%
				- STEL	125	543	
				PEL - TWA	100	435	
				- STEL	125	545	
Xylene	Xylol	1330-20-7	9.5	TLV - TWA	100	434	<1%
				- STEL	150	651	
				PEL - TWA	100	435	
				- STEL	150	655	

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

300 - 366 DEG. F

EVAPORATION RATE VS. ETHER:

SLOWER

PERCENT VOLATILE BY VOLUME:

66 - 69

VAPOR DENSITY:

LIGHTER THAN AIR

WEIGHT PER GALLON (LBS):

7.3 - 7.6

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SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:
107° F SFCC

LEL:
1.0

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.

SECTION V - REACTIVITY DATA

STABILITY:
STABLE

INCOMPATIBILITY (MATERIALS TO AVOID):
STRONG ACIDS AND STRONG OXIDIZING AGENTS

HAZARDOUS DECOMPOSITION PRODUCTS:
CARBON MONOXIDE, CARBON DIOXIDE, SMOKE,
OXIDES OF NITROGEN, ORGANIC ACIDS

HAZARDOUS POLYMERIZATION:
WILL NOT OCCUR UNDER NORMAL CONDITIONS

CONDITIONS TO AVOID:
ELEVATED TEMPERATURE

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.

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SECTION VI - HEALTH HAZARD DATA TOXICOLOGICAL PROPERTIES AND FIRST AID MEASURES (CONT'D)

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.
- ☞ 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.
- ☞ 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.

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 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.

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REPEATED INHALATION OF SANDING DUST OR SPRAY MIST MAY CAUSE LUNG DAMAGE.



BASED ON LAB ANIMAL TESTS, METHYL ETHYL KETOXIME HAS BEEN SHOWN TO CAUSE LIVER CANCER IN RODENTS. RELEVANCE TO HUMANS IS QUESTIONABLE.



PROLONGED OR CONTINUOUS INHALATION OF VAPORS MAY CAUSE BLOOD CELL DAMAGE.



CONTAINS ETHYLBENZENE WHICH HAS BEEN SHOWN TO CAUSE CANCER IN LABORATORY ANIMALS BY INHALATION.



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.

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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.

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.

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, 00AMK45570003, 00AMK45578003 AND 00AMK45579003, CONTAIN THE FOLLOWING TOXIC CHEMICAL 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	% BY WEIGHT
1330-20-7	XYLENE	0.3
100-41-4	ETHYL BENZENE	0.06

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