

Abbey Color Incorporated
(DBA Abbey Products Inc.)
400 E. Tioga Street
Philadelphia, PA 19134
215-739-9960
215-739-9963(FAX)

Material Safety Data Sheet

I. Product Identification

Trade Name ABCOL WX - 9303 S "Part A"
Chemical Name Reaction product of Polypropylene glycol polymer
with Toluene diisocyanate (TDI)
Revision Date 12-12-06

II. Composition / Information on Ingredients

Note(s): This is not a dangerous substance.
See section 15 for chemicals appearing on Federal or State Right-to-Know lists.

III. Hazards Identification

Caution: May cause eye and skin irritation.

May cause skin sensitization.
May cause irritation of the respiratory tract.
Repeated exposure may cause sensitization of the respiratory tract and the
development of an asthmatic reaction on further exposure.

IV. First Aid Measures

Swallowing: Drink promptly a large amount of milk, egg white or gelatin
solution. If not available, drink a large quantity of water. Do not administer
fluids to an unconscious person. Obtain medical attention immediately.

Skin: Remove contaminated clothing. Wipe excess material from the skin. Wash
with alcohol, followed by soap and water. Obtain medical attention.

Inhalation: Remove to fresh air. If breathing is difficult, administer oxygen.
Obtain medical attention immediately.

Eye Contact: Immediately flush eyes with water and continue washing for at least
15 minutes. Obtain medical attention if irritation persists.

Notes to Physicians: Treat for potential respiratory irritation.

V. Fire Fighting Measures

Flash Point: 204°C (399°F)

Flammable Limits

Lower limit: Not available
Upper limit: Not available

Autoignition temperature: Not available

NFPA Classification

Health: 2 Flammability: 1 Reactivity: 1

Special Protective Equipment for Firefighters: Firefighters must be equipped to prevent breathing of vapors or products of combustion. Wear SCBA and protective clothing.

Extinguishing Media: Water spray and dry chemical.

Unusual Fire and Explosion Hazards: Contamination of isocyanates with water could lead to dangerous pressure inside closed containers by generation of carbon dioxide.

VI. Accidental Release Measures

Personal Precautions: Wear suitable protective equipment - especially respirators and eye protection.

Methods for Cleaning Up:

Absorb on inert material such as sand, earth, or vermiculite.
Sweep up and collect in a suitable container for disposal.
Ventilate the area.
Stop the leak if it can be done without risk.

Supplies of suitable decontaminant should always be kept available. Contain and cover the spillage with solid decontaminant, wet earth or wet sand and leave to react for at least 30 minutes. Shovel residues into open-top drums and remove for further decontamination if necessary. Clean area with water. Test atmosphere for vapors to ensure safe working conditions before other personnel are allowed in the area. Suitable decontaminant solution: water 90-95%, concentrated ammonia solution 5-10%, liquid detergent 0.2-2%.

VII. Handling and storage

Handling: Use only with adequate ventilation.

Storage: Keep container tightly closed. Store in a cool, dry and well ventilated area. Store under nitrogen. Isocyanate based products react with water liberating CO₂, which can lead to excessive pressure in closed containers, and form solid insoluble polymers, which can block pipes, valves, etc. Contact with copper or copper alloys and galvanized surfaces must be avoided and valves etc made of these materials must not be used in equipment for storing and handling diisocyanates. Do not store in open containers. Damaged drums should be emptied.

VIII. Exposure Controls / Personal Protection

Respiratory Protection: Use SCBA or supplied air if personnel exposure exceeds exposure limits.

Hand Protection: Chemical resistant gloves.

Eye Protection: Safety glasses with side shields. Face shield of chemical splash goggles in case of splashing.

Skin Protection: Wear protective clothing.

Industrial Hygiene Measures: Immediately remove contaminated clothing.

Engineering Controls: Provide sufficient ventilation and / or exhaust.

Exposure Limits: No exposure limits have been established.

IX. Physical and Chemical Properties

Appearance

Physical state:	Viscous Liquid
Color:	Colorless to pale yellow
Odor:	None to Slight

Other Properties

Solubility in H ₂ O:	Insoluble, Reacts
Solubility in Organic Solvents:	Dimethylformamide, THF
Percent Volatiles:	Negligible
Dynamic Viscosity:	400 mPa.s @ 70°C

X. Stability and Reactivity

Stability: Stable under recommended storage conditions. See also section 7.

Incompatible Materials: Water, Strong oxidizers, alcohols.

Hazard Combustion Products: Hydrocarbons, oxides of carbon and nitrogen. HCN, isocyanates.

XI. Toxicological Information

General: There is no acute toxicity information on this product. Toluene Diisocyanate (TDI) which is contained in this product at less 0.01% - 0.1% may elicit dermal and pulmonary sensitization and irritation in some individuals.

XII. Ecological Information

Ecological data on this product are not available.

XIII. Disposal Considerations

General: In a well-ventilated area, fill drums with several centimeters of water. Leave drum open and slowly shake and roll to allow water contact. Leave open to air for sufficient time to cure. Dispose in accordance with local and/or national regulations pertinent to polymeric waste.

Warning: Burning this material can produce toxic fumes. Dispose of in accordance with appropriate Federal, State and Local regulations.

XIV. Transport Information

DOT Classification: This product is not regulated by DOT.
Freight Description Road: PLASTIC MATERIAL, LIQUID N.O.I.B.N.
IMDG Classification: This product is not regulated by IMDG.
ICAO Classification: This product is not regulated by ICAO.

XV. Regulatory Information

CERCLA 40CFR302.4 RQ: None
SARA Title III sections 302/304 RQ: None
SARA Title III Section 313 RQ: None

State Right-to-Know

<u>Chemical Name</u>	<u>CAS #</u>	<u>State</u>	<u>Limit</u>
Toluene-2,4-diisocyanate	26471-62-5	MA	<0.10%
Toluene-2,6-diisocyanate	26471-62-5	MA	<0.10%
Toluene-2,4-diisocyanate	26471-62-5	PA	<0.10%
Toluene-2,6-diisocyanate	26471-62-5	PA	<0.10%

New Jersey Worker and Community Right-to-Know Act

<u>Chemical Name</u>	<u>CAS #</u>	<u>NJ TS Number</u>
Toluene-2,4-diisocyanate	26471-62-5	
Toluene-2,6-diisocyanate		
Poly{oxy(methy-1,2-ethanediyl)}, alpha-hydro-omega-hydroxy-, polymer with 1,3-diisocyanato	9057-91-4	
methylbenzene Phenolic Antioxidant	Trade Secret	CROM387
Mineral Acid	Trade Secret	CROM386

EPA Hazard Categories (SARA 311, 312): None

California Proposition 65: This product contains toluene diisocyanate (<0.1%)

CHEMICAL INVENTORY

Canada: Is on the DSL.
Europe: Is on the EINECS inventory.
United States: Is on TSCA.
Australia: Is on the AICS inventory.
China: Is listed with the State Environmental Protection
Administration(SEPA).
Japan: Is on the ENCS inventory.
Korea: Is on the ECL.
Philippines: Is on the PICCS.

XVI. Other Information

HMIS:

H:2 F:1 R:1 PPI:X

TO THE BEST OF OUR KNOWLEDGE, THE INFORMATION CONTAINED HEREIN IS ACCURATE. HOWEVER, ABBEY PRODUCTS DOES NOT ASSUME ANY LIABILITY WHATSOEVER FOR THE ACCURACY OR COMPLETENESS OF THE INFORMATION CONTAINED HEREIN. FINAL DETERMINATION OF SUITABILITY OF ANY MATERIAL IS THE SOLE RESPONSIBILITY OF THE USER. ALL MATERIALS THAT MAY PRESENT UNKNOWN HEALTH HAZARDS ARE DESCRIBED HEREIN. WE CANNOT GUARANTEE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.

File :msdWX9303-A

Abbey Color Incorporated
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Material Safety Data Sheet

I. Product Identification

Trade Name ABCOL WX - 9303 S "Part B"
Chemical Name Petroleum Based Tar Blend
Revision Date 12-12-06

II. Composition / Information on Ingredients

Note(s): This is not a dangerous substance.

Hazardous Components

<u>Name</u>	<u>CAS Number</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>Other Limits Recommended</u>
Petroleum Based Tar Blend	64742-90-1	NE	NE	0.2 mg/m ³
Mixture Aromatic Amines	68479-98-1	NE	NE	
Amine Based Polyol	37208-53-0	NE	NE	
Polyether Polyol	25322-69-4	NE	NE	
Aromatic Hydrocarbon Mixture	64742-94-5	10 ppm	10 ppm	
	64741-81-7			
Ester Plasticizer	16883-83-3	NE	NE	

NE - Not established

III. Hazards Identification

Caution: Harmful if inhaled material is irritating to mucous membrane and upper respiratory tract May cause eye and skin irritation.

May cause skin sensitization.

May cause irritation of the respiratory tract.

Repeated exposure may cause sensitization of the respiratory tract and the development of an asthmatic reaction on further exposure.

IV. First Aid Measures

Swallowing: Drink promptly a large amount of water. Induce vomiting. Contact physician. Do not administer fluids to an unconscious person.

Skin: Remove contaminated clothing. Wipe excess material from the skin. Wash with alcohol, followed by soap and water. Obtain medical attention if necessary.

Inhalation: Remove to fresh air. If breathing is difficult, administer artificial respiration.

Eye Contact: Immediately flush eyes with water and continue washing for at least 15 minutes. Obtain medical attention if irritation persists.

Notes to Physicians: Treat for potential respiratory irritation.

V. Fire Fighting Measures

Flash Point: 280°F (COC)

Flammable Limits

Lower limit: Not available

Upper limit: Not available

Autoignition temperature: Not available

NFPA Classification

Health: 2 Flammability: 1 Reactivity: 1

Special Protective Equipment for Firefighters: Firefighters must be equipped to prevent breathing of vapors or products of combustion. Wear SCBA and protective clothing.

Extinguishing Media: Water spray, foam and dry chemical.

Unusual Fire and Explosion Hazards: None.

VI. Accidental Release Measures

Personal Precautions: Wear suitable protective equipment - especially respirators and eye protection.

Methods for Cleaning Up:

Absorb on inert material such as sand, earth, or vermiculite.

Sweep up and collect in a suitable container for disposal.

Ventilate the area.

Supplies of suitable decontaminant should always be kept available. Contain and cover the spillage with solid decontaminant, wet earth or wet sand and leave to react for at least 60 minutes. Shovel residues into open-top drums and remove for further decontamination if necessary. Clean area with water. Test atmosphere for vapors to ensure safe working conditions before other personnel are allowed in the area. Suitable decontaminant solution: water 87%, concentrated ammonium hydroxide solution 10%, liquid detergent 3%.

Dispose in accordance with Federal, State and Local regulations.

VII. Handling and storage

Handling: Use only with adequate ventilation.

Storage: Keep container tightly closed. Keep away from heat, sparks and open flame. Ground container during bulk storage and transfer operations. Do not store in open containers. Damaged drums should be emptied.

VIII. Exposure Controls / Personal Protection

Respiratory Protection: Use NIOSH / MSHA approved respirator.

Hand Protection: Chemical resistant gloves.

Eye Protection: Safety glasses with side shields. Face shield or chemical splash goggles in case of splashing.

Skin Protection: Wear protective clothing.

Industrial Hygiene Measures: Immediately remove contaminated clothing.

Engineering Controls: Provide sufficient ventilation and / or exhaust.

Exposure Limits: No exposure limits have been established.

IX. Physical and Chemical Properties

Appearance

Physical state:	Viscous Liquid
Color:	Dark Brown to Black
Odor:	Aromatic hydrocarbon

Other Properties

Solubility in H ₂ O:	Negligible
Boiling Point:	>200°C
Specific Gravity:	1.07
Evaporation rate:	<1.0
Vapor Density:	>1.0

X. Stability and Reactivity

Stability: Stable under recommended storage conditions. See also section 7.

Incompatible Materials: Water, alcohol, amines and oxidizing agents.

Hazard Combustion Products: CO, CO₂ and oxides of nitrogen.

XI. Toxicological Information

General: There is no acute toxicity information on this product.

XII. Ecological Information

Ecological data on this product are not available.

XIII. Disposal Considerations

General: Dispose in accordance with local and/or national regulations.

Warning: Burning this material can produce toxic fumes. Dispose of in accordance with appropriate Federal, State and Local regulations.

XIV. Transport Information

DOT Classification: This product is not regulated by DOT.
Freight Description Road: PLASTIC MATERIAL, LIQUID N.O.I.B.N.
IMDG Classification: This product is not regulated by IMDG.
ICAO Classification: This product is not regulated by ICAO.

XV. Regulatory Information

CERCLA 40CFR302.4 RQ: None
SARA Title III sections 302/304 RQ: None
SARA Title III Section 313 RQ: None

CHEMICAL INVENTORY

Canada: Is on the DSL.
Europe: Is on the EINECS inventory.
United States: Is on TSCA.
Australia: Is on the AICS inventory.
China: Is listed with the State Environmental Protection Administration(SEPA).
Japan: Is on the ENCS inventory.
Korea: Is on the ECL.
Philippines: Is on the PICCS.

XVI. Other Information

Carcinogenicity: NTP: No IARC: No OSHA Regulated: No

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File :msdWX-9303-B

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215-739-9960
215-739-9963(FAX)

Material Safety Data Sheet

I. Product Identification

Trade Name ABCOL WX - 9303 Primer
Chemical Name Acetate, Isocyanate Blend
Revision Date 12-12-06

II. Composition / Information on Ingredients

Note(s): This is not a dangerous substance.

Hazardous Components

<u>Name</u>	<u>CAS Number</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Aromatic Polyisocyanates		NE	NE
Diphenyl Methane Diisocyanate(MDI)	26447-40-5	0.02 ppm (upper limit)	0.005 ppm (TWA)
Ethyl Acetate	141-78-6	440 ppm	400 ppm
Butyl Acetate	123-86-4	150 ppm	150 ppm
Propylene Glycol Methyl Ether Acetate (PMA)	00108-65-6 64741-81-7	NE	NE
Carbon Black dispersion	1333-86-4	3.6 mg/m ³	3.6mg/m ³
		NE - Not established	

III. Hazards Identification

Caution: Harmful if inhaled. Material is irritating to mucous membrane and upper respiratory tract. May cause eye and skin irritation.

May cause skin sensitization.

May cause irritation of the respiratory tract.

Repeated exposure may cause sensitization of the respiratory tract and the development of an asthmatic reaction on further exposure.

IV. First Aid Measures

Swallowing: Drink promptly a large amount of water. Induce vomiting. Contact physician. Do not administer fluids to an unconscious person.

Skin: Remove contaminated clothing. Wipe excess material from the skin. Wash with alcohol, followed by soap and water. Obtain medical attention if necessary.

Inhalation: Remove to fresh air. If breathing is difficult, administer artificial respiration.

Eye Contact: Immediately flush eyes with water and continue washing for at least 15 minutes. Obtain medical attention if irritation persists.

Notes to Physicians: Treat for potential respiratory irritation.

V. Fire Fighting Measures

Flash Point: 36°F (COC)

Flammable Limits

Lower limit: 1.3
Upper limit: 13.1

Special Protective Equipment for Firefighters: Firefighters must be equipped to prevent breathing of vapors or products of combustion. Wear SCBA and protective clothing.

Extinguishing Media: Water spray, foam and dry chemical.

Unusual Fire and Explosion Hazards: Closed containers may explode or burst when exposed to extreme heat.

VI. Accidental Release Measures

Personal Precautions: Wear suitable protective equipment - especially respirators and eye protection.

Methods for Cleaning Up:

Absorb on inert material such as sand, earth, or vermiculite.
Sweep up and collect in a suitable container for disposal.
Ventilate the area.

Supplies of suitable decontaminant should always be kept available. Contain and cover the spillage with solid decontaminant, wet earth or wet sand and leave to react for at least 60 minutes. Shovel residues into open-top drums and remove for further decontamination if necessary. Clean area with water. Test atmosphere for vapors to ensure safe working conditions before other personnel are allowed in the area. Suitable decontaminant solution: water 87%, concentrated ammonium hydroxide solution 10%, liquid detergent 3%.

Dispose in accordance with Federal, State and Local regulations.

VII. Handling and storage

Handling: Use only with adequate ventilation.

Storage: Keep container tightly closed. Keep away from heat, sparks and open flame. Ground container during bulk storage and transfer operations. Do not store in open containers. Damaged drums should be emptied.

VIII. Exposure Controls / Personal Protection

Respiratory Protection: Use NIOSH / MSHA approved respirator.

Hand Protection: Chemical resistant gloves.

Eye Protection: Safety glasses with side shields. Face shield or chemical splash goggles in case of splashing.

Skin Protection: Wear protective clothing.

Industrial Hygiene Measures: Immediately remove contaminated clothing.

Engineering Controls: Provide sufficient ventilation and / or exhaust.

Exposure Limits: No exposure limits have been established.

IX. Physical and Chemical Properties

Appearance

Physical state:	Liquid
Color:	Black
Odor:	Solvent odor

Other Properties

Solubility in H ₂ O:	Slightly Soluble, reacts
Boiling Point:	107°F
Specific Gravity:	0.95
Evaporation rate:	1.0
Vapor Density:	ND

X. Stability and Reactivity

Stability: Stable under recommended storage conditions. See also section 7.

Incompatible Materials: Water, alcohol, amines and oxidizing agents.

Hazard Combustion Products: CO, CO₂ and oxides of nitrogen.

XI. Toxicological Information

General: There is no acute toxicity information on this product.

XII. Ecological Information

Ecological data on this product are not available.

XIII. Disposal Considerations

General: Dispose in accordance with local and/or national regulations.

Warning: Burning this material can produce toxic fumes. Dispose of in accordance with appropriate Federal, State and Local regulations.

XIV. Transport Information

DOT Classification: This product is not regulated by DOT.
Freight Description Road: PLASTIC MATERIAL, LIQUID N.O.I.B.N.
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ICAO Classification: This product is not regulated by ICAO.

XV. Regulatory Information

CERCLA 40CFR302.4 RQ: None
SARA Title III sections 302/304 RQ: None
SARA Title III Section 313 RQ: None

CHEMICAL INVENTORY

Canada: Is on the DSL.
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File :msdWX-9303-Primer