

MSDS *Material Safety Data Sheet*

Advanced Polymer Technology



QUALIPUR 7600 PART A

MSDS Number:

Revision Date: 07/21/2010

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1 PRODUCT AND COMPANY IDENTIFICATION

Manufacturer

Advanced Polymer Technology
P.O. Box 160
109 Conica Lane
Harmony, PA 16037

Contact: Senior Chemist
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E-Mail: info@advpolytech.com
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Product Name: QUALIPUR 7600 PART A
Revision Date: 07/21/2010
Chemical Family: Polyester Resin Based Sealer

This product is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.
Transportation emergency phone number: Chemtel 800-255-3924

2 HAZARDS IDENTIFICATION

Route of Entry: Inhalation, eye and skin contact.
Target Organs: Eyes; Respiratory System; Skin;
Inhalation: Vapors and mists irritate the nose and throat. Inhalation of higher concentrations may cause headache, nausea, fatigue, narcosis and loss of appetite. Inhalation of very high concentrations or prolonged exposure may cause unconsciousness or death.
Skin Contact: Repeated or prolonged skin contact can result in dry, defatted skin. Irritation with redness and swelling may develop into dermatitis.
Eye Contact: Liquid, aerosols and mist may irritate the eyes and can cause tearing, redness and swelling. If left untreated, corneal damage can occur and injury is slow to heal.
Ingestion: Swallowing can result in irritation of the digestive tract. Symptoms can include sore throat, abdominal pain, nausea, vomiting and diarrhea.



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3 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

Cas #	Chemical Name	Perc.
Proprietary	Polyester Polyol	30-40%
108656	2-Propanol, 1-methoxy-, acetate	20-25%
123864	n-Butyl acetate	3-10%
1330207	Xylene	5-10%

May contain the following depending on color:

1317619	Iron oxide (Fe ₃ O ₄)	1-5%
147148	Copper, [29H,31H-phthalocyaninato(2-)-.k	1-5%
1308389	Chromium oxide (Cr ₂ O ₃)	1-5%
1309371	Ferric oxide	1-5%
13463677	Titanium oxide (TiO ₂)	1-5%
7758976	Chromic acid (H ₂ CrO ₄), lead(2+) salt (1:	1-5%
12656858	C.I. Pigment Red 104	1-5%
20344494	Iron hydroxide oxide (Fe(OH)O)	1-5%
5281049	2-Naphthalenecarboxylic acid, 3-hydroxy-	1-5%
68186903	C.I. Pigment Brown 24	1-5%
84632655	Pyrrrolo[3,4-c]pyrrole-1,4-dione, 3,6-bis(4-chlorophenyl)-2,5-dihydro-	1-5%
68187495	C.I. Pigment Green 26	1-5%
8007189	C.I. Pigment Yellow 53	1-5%
1345160	C.I. Pigment Blue 28	1-5%
68187111	C.I. Pigment Blue 36	1-5%
68187020	C.I. Pigment Black 12	1-5%
12656858	C.I. Pigment Red 10	1-5%
1306383	Cerium oxide (CeO ₂)	1-5%

OSHA Regulatory Status:

This MSDS Contains valuable information critical to the safe handling and proper use of this product. This MSDS should be retained and available for employees and other users of this product.

4 FIRST AID MEASURES

Inhalation:	Move individual to fresh air and administer oxygen or artificial respiration as needed. Obtain medical attention.
Skin Contact:	Remove contaminated clothing. Wash affected skin thoroughly with soap and water. Wash contaminated clothing thoroughly before reuse. For severe exposure, get under safety shower then get medical attention. For lesser exposures, seek get medical attention if irritation develops or persists after area is washed.
Eye Contact:	If splashed into the eyes, flush with clean, lukewarm water (low pressure) for 15 minutes or until irritation subsides. If irritation persists, call a physician.
Ingestion:	DO NOT INDUCE VOMITING. Give 1 to 2 cups of milk or water to drink. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. Get prompt, qualified medical attention. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of the liquid into the lungs. Get medical attention.

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5 FIRE FIGHTING MEASURES

Flash Point:	87.8 DEG F (31 DEG C)
Flash Point Method:	ASTM D56
LEL:	1.7%
UEL:	9.0%
Flammability Classification:	3 Flammable Liquid

Dry powder, foam, carbon dioxide.

Full emergency equipment with self-contained breathing apparatus should be worn by fire-fighters. Use cold water spray to cool fire-exposed containers to minimize risk of rupture. Closed containers may explode when exposed to extreme heat. Solvent vapors may be heavier than air. Under conditions of stagnant air, vapors may build up and travel along the ground to an ignition source which may result in flash back to the source of the vapors.

6 ACCIDENTAL RELEASE MEASURES

Extinguish all ignition sources and ensure that all handling equipment is electrically grounded.

For small spills or drips, mop or wipe up and dispose of in approved waste containers. For large spills, contain by diking with soil or other non-combustible absorbent materials and then pump into approved waste containers; or absorb with non-combustible material, place residue in approved waste containers. Keep out of sewers, storm drains, surface waters and soil. Comply with all applicable governmental regulations on spill reporting and handling and disposal of waste. Waste & container disposal must be in accordance with federal, state, & local environmental controls

7 HANDLING AND STORAGE

Handling Precautions: Avoid breathing vapors or mist; Avoid contact with eyes, skin, or clothing; Do not expose containers to open flame, excessive heat, or direct sunlight. Do not puncture or drop containers. Wash thoroughly after handling;

Storage Requirements: Keep away from heat, sparks, and flames; Store in cool/dry area; If container temperature exceeds boiling point, cool the container before opening.
Vent containers frequently, and more often in warm weather, to relieve pressure.

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8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Educate and train employees in safe use of this product. Follow all label instructions. All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94).

Protective Equipment: An air-purifying respirator equipped with organic cartridges or a canister and dust filters is required. Due to poor warning properties of this product, proper fit must be ensured. Observe OSHA regulations for respirator use (29CFR 1910.134). Chemical resistant gloves (butyl rubber, nitrile rubber) should be worn. Cover as much of the exposed area as possible with appropriate clothing. If skin creams are used, keep the area covered only by the cream to a minimum. Chemical goggles should be worn unless a full face respirator is being used. It is generally recognized that contact lenses should not be worn when working with chemicals because the lenses may contribute to the severity of an eye injury.

Exposure Guidelines/Other:

Butyl acetate
USA OSHA (TWA₅)/PEL): 150 ppm
NIOSH (TWA): 150 ppm
USA OSHA (STEL): 200 ppm
NIOSH (STEL): 200 ppm

XYLENE
OSHA (TWA₅)/PEL): 100 ppm
ACGIH (TWA): 150 ppm
OSHA (STEL): 150 ppm
ACGIH (STEL): 150 ppm

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Pigmented Liquid	Boiling Point:	Not established
Physical State:	Liquid	Freezing/Melting Pt.:	Not established
Odor:	Of solvent	Solubility:	Insoluble in Water
pH:	N.A.	Spec Grav./Density:	1.30 @ 68 DEG F (20 DEG C)
Vapor Pressure:	Not established		
Vapor Density:	Not established		
VOC:	490 g/L		
Bulk Density:	10.8 lbs/gal		



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10 STABILITY AND REACTIVITY

Stability:	Product is stable under normal conditions.
Conditions to avoid:	Avoid heat, sparks, open flames, and other ignition sources. Prevent vapour accumulation.
Materials to avoid (incompatibility):	Strong Oxidizing Agents.
Hazardous Decomposition products:	By fire - CO and CO ₂ and other aliphatic fragments which have not been determined.
Hazardous Polymerization:	Will not occur.

11 TOXICOLOGICAL INFORMATION

Toxicity Data for Xylene

Acute Oral Toxicity

LD50: > 2,000 mg/kg (rat)

Acute Dermal Toxicity

LD50: > 2,000 mg/kg (rabbit)

Acute Inhalation Toxicity

LC50: > 5,000ppm/ 1 hour

Skin Irritation

Irritating to skin

Eye Irritation

Moderately irritating to eyes

Respiratory Irritation

Inhalation of vapours or mists may cause irritation to the respiratory system.

Repeated or Prolonged Toxicity

Can cause damage to: Liver, Kidney, Central Nervous System, Auditory System, Cardiovascular System

Toxicity Data for 2-Propanol, 1-Methoxy, - acetate

Acute Oral Toxicity:

LD50 >2000mg/kg, rat

Acute Dermal Toxicity:

LD50 >2000mg/kg, rabbit

Acute Inhalation Toxicity:

LC50 >5000ppm / 1 hr, rat

Skin Irritation

Prolonged/ repeated contact may cause defatting of skin which can lead to dermatitis. Not irritating to skin.

Eye Irritation

Moderately irritating to eyes.

Respiratory Irritation

Inhalation of vapours or mists cause irritation to respiratory system.

Sensitisation

Not a skin sensitiser

Repeated Dose Toxicity

Kidney: caused kidney effects in male rats which are not considered relevant to humans.

Mutagenicity

Not mutagenic



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12 ECOLOGICAL INFORMATION

Ecological Data for Xylene

Acute Toxicity

Fish: 1 < LC/EC/IC50 <= 10 mg/l
Aquatic Invertebrates: 1 < LC/EC/IC50 <= 10 mg/l
Algae 1 < LC/EC/IC50 <= 10 mg/l

Mobility

If product enters soil, it will be highly mobile and may contaminate groundwater.

Persistence/Degradability

Readily Biodegradable. Oxidises rapidly by photo-chemical reactions in air.

Bioaccumulation

Does not bioaccumulate significantly

Ecological Data for 2-Propanol, 1-methoxy, -acetate

Acute Toxicity

Fish LC/EC/IC50 > 100mg/L
Aquatic Invertebrates LC/EC/IC50 > 100mg/L
Algae LC/EC/IC50 > 1000mg/L
Microorganisms LC/EC/IC50 > 1000mg/L

Mobility

If product enters soil, it will be highly mobile and may contaminate groundwater

Dissolves in water

Persistence/degradability

Inherently biodegradable

Oxidises rapidly by photo-chemical reactions in air.

Bioaccumulation

Not expected to bioaccumulate significantly.

13 DISPOSAL CONSIDERATIONS

Waste and container disposal must be in compliance with federal, state, and local environmental control regulations. Empty containers must be handled with care due to product residue. DO NOT HEAT OR CUT EMPTY CONTAINERS WITH ELECTRIC OR GAS TORCH

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TRANSPORT INFORMATION

DOT (HM-181; DOMESTIC SURFACE)

PROPER SHIPPING NAME:	Paint Related Material
HAZARD CLASS OR DIVISION:	3
UN/NA NUMBER:	UN 1263
PACKAGING GROUP:	PG III
HAZARD LABEL(S):	Flammable Liquid
HAZARD PLACARD(S):	Flammable

ICAO/IATA (AIR)

PROPER SHIPPING NAME:	Paint Related Material
HAZARD CLASS DIVISION NUMBER:	3
UN NUMBER:	UN 1263
SUBSIDIARY RISK:	None
PACKING GROUP:	PG III
HAZARD LABEL(S):	Flammable Liquid
RADIOACTIVE?:	Non-radioactive
PASSENGER AIR - MAXIMUM QUANTITY:	60 L
PASSENGER INSTRUCTION NUMBER:	309
CARGO AIR - MAXIMUM QUANTITY:	220 L
CARGO AIR INSTRUCTION NUMBER:	310

IMO/IMDG CODE (OCEAN)

PROPER SHIPPING NAME:	Paint Related Material
HAZARD CLASS DIVISION NUMBER:	3.3
UN NUMBER:	UN 1263
PACKING GROUP:	PG III
HAZARD LABEL(S):	Flammable Liquid
HAZARD PLACARD(S):	Flammable Liquid

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REGULATORY INFORMATION

COMPONENT / (CAS/PERC) / CODES

*n-Butyl acetate (123864 3-10%) CERCLA, CSWHS, MASS, OSHAWAC, PA, TXAIR

*Xylene (1330207 5-10%) CERCLA, CSWHS, EPCRAWPC, HAP, MASS, NJHS, OSHAWAC, PA, SARA313, TOXICRCRA, TXAIR, TXHWL

*Chromium oxide (Cr₂O₃) (1308389 1-5%) MASS

*Ferric oxide (1309371 1-5%) MASS, OSHAWAC, PA, TXAIR

*Titanium oxide (TiO₂) (13463677 1-5%) MASS, OSHAWAC, PA, TXAIR

*Chromic acid (H₂CrO₄), lead(2+) salt (1:1) (7758976 1-5%) MASS, PA, TXAIR

*2-Propanol, 1-methoxy-, acetate (108656 20-25%) TSCA

*2-Propanol, 1-methoxy-, acetate (108656 20-25%) TSCA

*C.I. Pigment Brown 24 (68186903 1-5%) TSCA

*Pyrrolo[3,4-c]pyrrole-1,4-dione, 3,6-bis(4-chlorophenyl)-2,5-dihydro- (84632655 1-5%) TSCA

*Pyrrolo[3,4-c]pyrrole-1,4-dione, 3,6-bis(4-chlorophenyl)-2,5-dihydro- (84632655 1-5%) TSCA

*C.I. Pigment Green 26 (68187495 1-5%) TSCA

*C.I. Pigment Yellow 53 (8007189 1-5%) TSCA

*C.I. Pigment Blue 28 (1345160 1-5%) TSCA

*C.I. Pigment Blue 36 (68187111 1-5%) TSCA

*C.I. Pigment Black 12 (68187020 1-5%) TSCA

*C.I. Pigment Red 104 (12656858 1-5%) TSCA

*Cerium oxide (CeO₂) (1306383 1-5%) TSCA

TSCA: All components in this mixture are included on the TSCA inventory.

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REGULATORY KEY DESCRIPTIONS

CERCLA = Superfund clean up substance
CSWS = Clean Water Act Hazardous substances
MASS = MA Massachusetts Hazardous Substances List
OSHA = OSHA Workplace Air Contaminants
PA = PA Right-To-Know List of Hazardous Substances
TXAIR = TX Air Contaminants with Health Effects Screening Level

EPCRAWPC = EPCRA Water Priority Chemicals
HAP = Hazardous Air Pollutants
NJHS = NJ Right-to-Know Hazardous Substances
SARA313 = SARA 313 Title III Toxic Chemicals
TOXICRCRA = RCRA Toxic Hazardous Wastes (U-List)
TXHWL = TX Hazardous Waste List

TSCA = Toxic Substances Control Act

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OTHER INFORMATION

Disclaimer:

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END OF MSDS DOCUMENT