

# MSDS *Material Safety Data Sheet*

**Advanced Polymer Technology**



## QUALIPUR 6800 PART A

MSDS Number: Q 6800 A

Revision Date: 02/24/11

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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  
**Telephone Number:** 724-452-1330  
**FAX Number:** 724-452-1703  
**E-Mail:** info@advpolytech.com  
**Web:** www.advpolytech.com

**Product Name:** QUALIPUR 6800 PART A  
**Revision Date:** 02/24/11  
**MSDS Number:** Q 6800 A  
**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 <sub>3</sub> O <sub>4</sub> )	1-5%
147148	Copper, [29H,31H-phthalocyaninato(2-)-.k	1-5%
1308389	Chromium oxide (Cr <sub>2</sub> O <sub>3</sub> )	1-5%
1309371	Ferric oxide	1-5%
13463677	Titanium oxide (TiO <sub>2</sub> )	1-5%
7758976	Chromic acid (H <sub>2</sub> CrO <sub>4</sub> ), 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 <sub>2</sub> )	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

<b>Inhalation:</b>	Move individual to fresh air and administer oxygen or artificial respiration as needed. Obtain medical attention.
<b>Skin Contact:</b>	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.
<b>Eye Contact:</b>	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.
<b>Ingestion:</b>	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

<b>Flash Point:</b>	87.8 DEG F (31 DEG C)
<b>Flash Point Method:</b>	ASTM D56
<b>LEL:</b>	1.7%
<b>UEL:</b>	9.0%
<b>Flammability Classification:</b>	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

<b>Engineering Controls:</b>	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).																
<b>Protective Equipment:</b>	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.																
<b>Exposure Guidelines/Other:</b>	<p><b>Butyl acetate</b></p> <table><tr><td>USA OSHA (TWA<sub>5</sub>)/PEL):</td><td>150 ppm</td></tr><tr><td>NIOSH (TWA):</td><td>150 ppm</td></tr><tr><td>USA OSHA (STEL):</td><td>200 ppm</td></tr><tr><td>NIOSH (STEL):</td><td>200 ppm</td></tr></table> <p><b>XYLENE</b></p> <table><tr><td>OSHA (TWA<sub>5</sub>)/PEL):</td><td>100 ppm</td></tr><tr><td>ACGIH (TWA):</td><td>150 ppm</td></tr><tr><td>OSHA (STEL):</td><td>150 ppm</td></tr><tr><td>ACGIH (STEL):</td><td>150 ppm</td></tr></table>	USA OSHA (TWA <sub>5</sub> )/PEL):	150 ppm	NIOSH (TWA):	150 ppm	USA OSHA (STEL):	200 ppm	NIOSH (STEL):	200 ppm	OSHA (TWA <sub>5</sub> )/PEL):	100 ppm	ACGIH (TWA):	150 ppm	OSHA (STEL):	150 ppm	ACGIH (STEL):	150 ppm
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### 9 PHYSICAL AND CHEMICAL PROPERTIES

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



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### 10 STABILITY AND REACTIVITY

<b>Stability:</b>	Product is stable under normal conditions.
<b>Conditions to avoid:</b>	Avoid heat, sparks, open flames, and other ignition sources. Prevent vapour accumulation.
<b>Materials to avoid (incompatibility):</b>	Strong Oxidizing Agents.
<b>Hazardous Decomposition products:</b>	By fire - CO and CO <sub>2</sub> and other aliphatic fragments which have not been determined.
<b>Hazardous Polymerization:</b>	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:	355
CARGO AIR - MAXIMUM QUANTITY:	220 L
CARGO AIR INSTRUCTION NUMBER:	366

#### 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 (Cr<sub>2</sub>O<sub>3</sub>) (1308389 1-5%) MASS

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

\*Titanium oxide (TiO<sub>2</sub>) (13463677 1-5%) MASS, OSHAWAC, PA, TXAIR

\*Chromic acid (H<sub>2</sub>CrO<sub>4</sub>), 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 (CeO<sub>2</sub>) (1306383 1-5%) TSCA

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

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#### REGULATORY KEY DESCRIPTIONS

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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  
TOXICRCA = RCRA Toxic Hazardous Wastes (U-List)  
TXHWL = TX Hazardous Waste List

TSCA = Toxic Substances Control Act

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#### OTHER INFORMATION

#### Disclaimer:

Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained herein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purpose(s).

END OF MSDS DOCUMENT