

## AP 100 (OC) Resin

### SECTION 1: Identification

Product Name: **AP 100 (OC)**  
Chemical Name: Polyurethane Resin (B-COMPONENT)  
Name: B-side Component of a Spray-Applied Polyurethane System.  
Recommended Use: Must be applied by a Training Applicator.  
Restrictions on Use:  
  
Manufactured By: ALPHA POLYMERS, LLC  
PO Box 8108 • Amarillo, TX 79114  
(806) 683-9071 • ALPHAPOLYMERSLLC.COM  
  
Emergency Contact: For Chemical Emergency (spill, leak, fire, exposure, or incident) within the US or Canada call CHEMTREC (800) 424-9300.

### SECTION 2: Hazards Identification

GHS Classification *(In accordance with 29 CFR 1910.1200)*  
Skin Corrosion /Irritation: Category 2  
Eye Corrosion/Irritation: Category 1  
Skin Sensitizer: Category 1B  
Oral Toxicity: Category 4  
Reproductive Toxicity: Category 1B  
Specific Target Organ Toxicity -Repeated Exposure (STOT-RE): Category 2

#### GHS Label Elements

#### Hazard Pictograms:



GHS07  
Harmful



GHS08  
Health Hazard

Signal Word: DANGER

Hazard Statements:

H302 Harmful if swallowed.  
 H315 Causes skin irritation.  
 H317 May cause an allergic skin reaction.  
 H319 Causes serious eye irritation.  
 H360 May damage fertility or the unborn child.  
 H373 May cause damage through repeated exposure if swallowed.

Precautionary Statements:

PREVENTION:

P201 Obtain special instructions before use.  
 P202 Do not handle until all safety precautions have been read and understood.  
 P260 Do not breathe dust/fume/gas/mist/vapors/spray.  
 P264 Wash hands thoroughly after handling.  
 P270 Do not eat, drink, or smoke when using this product.  
 P271 Contaminated work clothing should not be allowed out of the workplace  
 P280 Wear eye or face protection  
 P281 Wear personal protective equipment as required.

RESPONSE:

P301 + P312 If swallowed, call a POISON CENTER or doctor if you feel unwell.  
 P302 + P352 + P362 +P364 If on skin, wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse.  
 P305 + P351 + P338 If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.  
 P308 + P313 If exposed or concerned: Seek medical attention.  
 P332 + P313 If skin irritation occurs: Seek medical attention.  
 P337 + P313 If eye irritation persists: Seek medical attention.

STORAGE:

P405 Store locked up.

DISPOSAL:

P501 Dispose of contents/container to an approved facility in accordance with local, regional, national and international regulations.

Hazards Not Otherwise Classified:

Physical Hazards Not Otherwise Classified (PHNOC): None known.

Health Hazards Not Otherwise Classified (HHNOC): None known.

Section 3: Composition/Information on Ingredients

Substance/Mixture: Mixture

Hazardous Components:

Chemical Name	CAS #	Concentration (%)
Polyether Polyol	Trade Secret	25-35
Tris-Chloro Propyl Phosphate	13674-84-5	15-40
Surfactant 1	Trade Secret	15-25
Surfactant 2	Trade Secret	2-5
Amine Catalyst	Trade Secret	5-10
Water	7732-18-5	15-30

*\*The specific chemical identity and/or exact percentage (concentration) of composition may be withheld as a trade secret.*

Section 4: First-Aid Measures

#### General Advice:

Move out of dangerous area. Do not leave the victim unattended. Consult a physician. Show this safety data sheet to the doctor in attendance.

#### If Inhaled:

If breathed in, move person into fresh air. Call a physician or poison control center immediately. Keep patient warm and at rest. Keep respiratory tract clear. If breathing is difficult, give oxygen. If breathing is irregular or stopped, administer artificial respiration. If unconscious, place in recovery position and seek medical advice. Consult a physician immediately if symptoms such as shortness of breath or asthma are observed. Seek medical attention if adverse health effects persist.

#### In case of Skin Contact:

In case of skin contact, immediately flush skin with soap and plenty of water for at least 20 minutes. Take off contaminated clothing and shoes immediately. Thoroughly clean shoes before reuse. Wash contaminated clothing before reuse. Call a physician if irritation develops or persists.

#### In case of Eye Contact:

Rinse immediately with plenty of water, also under the eyelids for at least 20 minutes. If easy to do, remove contact lens, if worn. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.

#### If Swallowed:

Gently wipe or rinse the inside of the mouth with water. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Keep respiratory tract clear. Keep at rest. If a person vomits when lying on his/her back, place him/her in the recovery position. Never give anything by mouth to an unconscious person. Take victim immediately to hospital. If symptoms persist, call a physician.

#### Most Important Symptoms and Effects, both Acute and Delayed

Prolonged exposure may cause chronic effects. Suspected of damaging the unborn child. May cause damage to organs (kidney) through prolonged or repeated exposure (oral). Causes skin irritation. May cause redness and pain. Causes severe eye damage. Symptoms may include stinging, tearing, redness, swelling and blurred vision. Permanent eye damage including blindness could result.

#### Notes to Physician:

Symptomatic and supportive therapy as needed. Following severe exposure medical follow-up should be monitored for at least 48 hours. The first-aid procedure should be established in consultation with the doctor responsible for industrial medicine.

## Section 5: Firefighting Measures

#### Suitable Extinguishing Media:

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Foam, Carbon dioxide (CO<sub>2</sub>), Dry powder. Water spray for large fires.

#### Unsuitable Extinguishing Media:

Do not use water jet as an extinguisher as this will spread the fire.

#### Specific Hazards During Firefighting:

Do not allow run-off from firefighting to enter drains or water courses.

#### Hazardous Combustion Products:

Combustion products may include carbon monoxide, carbon dioxide, nitrogen oxides, halogenated and phosphorus compounds, traces of ammonia, oxides of phosphorus, hydrogen chloride gas, aldehydes and ketones, low molecular weight organic products, tin oxides, noxious and toxic fumes.

#### Special Protective Equipment for Firefighters:

Wear an approved positive pressure self-contained breathing apparatus (SCBA) with a full-face piece operated in positive pressure mode and appropriate protective equipment (PPE).

### Section 6: Accidental Release Measures

#### Personal Precautions, Protective Equipment and Emergency Procedures:

Immediately evacuate personnel to safe areas. Use personal protective equipment. If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. Ensure adequate ventilation. Keep people away from the upwind of spill/leak. Only qualified personnel equipped with suitable protective equipment may intervene. For additional precautions and advice on safe handling, see Section 7. Never return spills in original containers for re-use. Make sure that there is enough neutralizing/absorbent material near the storage area. The danger areas must be delimited and identified using relevant warning and safety signs. Treat recovered material as described in the section "Disposal Considerations". For disposal considerations, see Section 13.

#### Environmental Precautions:

Do not allow uncontrolled discharge of product into the environment. Do not allow material to contaminate ground water system. Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. Local authorities should be advised if significant spillages cannot be contained. If the product contaminates rivers and lakes or drains inform respective authorities.

#### Methods and Materials for Containment and Cleaning up:

Clean-up methods – small spillage. Contain spillage, soak up with non-combustible absorbent material, (e.g., sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local/national regulations (see section 13). Clean contaminated surface thoroughly. Sweep up or vacuum up spillage and collect in suitable container for disposal. See Section 1 for Emergency Contact Information.

### Section 7: Handling and Storage

Technical Measures: Ensure that eyewash stations and safety showers are close to the workstation location.

Local/Total Ventilation: Use only with adequate ventilation.

Advice on Protection Against Fire and Explosion: Normal measures for preventative fire protection.

#### Advice on Safe Handling:

For personal protection see Section 8. Do not handle until all precautions have been read and understood. Do not breath vapor/spray mist/dust. Do not swallow. Do not get in eyes or mouth or on skin. Do not get on clothing. Smoking, eating and drinking should be prohibited in the application area. Provide sufficient air exchange and/or exhaust in work rooms. Use only in areas with adequate ventilation or wear appropriate respirator. Dispose of rinse water in accordance with local, regional, national, and international regulations. Keep container tightly closed when not in use. Do not reuse containers. Empty containers with product residue. Can be hazardous.

Conditions for Safe Storage:

Keep container protected from direct sunlight, tightly closed in a dry and well-ventilated place. Keep away from incompatible materials (see Section 10), food and drink. Keep in properly labelled containers.

Observe label precautions. Keep containers tightly closed and sealed until ready for use. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Materials to Avoid:

Avoid contact with oxidizing materials, strong acids, strong bases and unintended contact with isocyanates.

Recommended Storage Temperature: 65-110°F

Storage Life: 12 months (in unopened containers)

Further Information on Storage Stability: Stable under recommended storage conditions.

Section 8: Exposure Controls/Personal Protection

Components with Workplace Control Parameters – UNITED STATES

Ingredient Name	CAS #	Value Type (Form of Exposure)	Control Parameters/ Permissible Concentration	Basis

Appropriate Engineering Controls:

If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Environmental Exposure Controls:

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental legislation.

Personal Protective Equipment

Respiratory Protection:

Use a properly fitted, air purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. In emergency, non-routine and unknown exposure situations, including confined space entries, a NIOSH-certified full-face piece pressure demand self-contained breathing apparatus (SCBA) or a full-face piece pressure demand supplied air respirator (SAR) with auxiliary self-contained air supply, should be used. Respirators should be used in accordance to a respiratory protection program to ensure proper fitting, training and other important aspects of use.

#### Hand Protection:

The suitability for a specific workplace should be discussed with the producers of the protective gloves. Protective gloves should be worn when handling freshly made polyurethane products to avoid contact with trace residual materials which may be hazardous in contact with skin. Use chemical resistant gloves classified under Standard EN374: protective gloves against chemicals and microorganisms. Examples of glove materials that might provide suitable protection include: butyl rubber, chlorinated polyethylene, polyethylene, ethyl vinyl alcohol copolymers, laminated ("EVAL", polychloroprene (neoprene\*), nitrile/butadiene rubber ("nitrile" or "NBR"), polyvinyl chloride ("PVD" or "vinyl"), fluoroelastomer (Viton\*). When prolonged or frequently repeated contact may occur, a glove with protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN374) is recommended. When only brief contact is expected, a glove with protection class of 3 or higher (breakthrough time greater than 240 minutes according to EN374) is recommended. Notice: The selection of a specific glove for a particular application and duration of use in a workplace should also consider all requisite workplace factors such as, but not limited to: other chemicals that may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), as well as instructions/specifications provided by the glove supplier.

#### Eye Protection:

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. Chemical splash goggles. Always wear eye protection when the potential for inadvertent eye contact with the product cannot be excluded. Please follow all applicable local/national requirements when selecting protective measures for a specific workplace. Ensure that eyewash stations and safety showers are close to the work location.

#### Skin and Body Protection:

Impervious clothing. Choose body protection according to the amount and concentration of the dangerous substance at the workplace. Recommended: Overall (preferably heavy cotton) or Tyvek-Pro Tech 'C', Tyvek Pro 'F' disposable coverall. Appropriate footwear should be selected based on the task being performed and the risks involved. Ensure that safety showers are close to the work location.

#### Protective Measures:

Personal protective equipment comprising of suitable protective gloves, safety goggles and protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Ensure that eye flushing systems and safety showers are located close to the work location.

#### Hygiene Measures:

Handle in accordance with good industrial hygiene and safety practice. Wash face, hands, forearms and any exposed skin thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas. When using do not eat, drink or smoke. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing contaminated clothing before reuse. Wash hands before breaks and immediately after handling the product and at the end of the workday. Ensure that the eyewash stations and safety showers are close to the work location.

### Section 9: Physical and Chemical Properties

Appearance: Liquid

Color: Clear

Odor: Mild Amine-like

Odor Threshold: No data is available on the product itself.

pH: No data is available on the product itself.

Freezing Point: No data is available on the product itself.  
Melting Point: No data is available on the product itself.  
Boiling Point: No data is available on the product itself.  
Flash Point: >200°F / >93°C (Method: Closed Cup)  
Evaporation Rate: No data is available on the product itself.  
Flammability (Solid, Gas): No data is available on the product itself.  
Flammability (Liquids): No data is available on the product itself.  
Upper & Lower Explosion Limit: No data is available on the product itself.  
Vapor Pressure: No data is available on the product itself.  
Relative Vapor Density: No data is available on the product itself.  
Relative Density / Specific Gravity @ 77°F (25°C): 1.10  
Density:  
Solubility in Water: Soluble in water.  
Partition coefficient: n-octanol/water: No data is available on the product itself.  
Auto-Ignition Temperature: No data is available on the product itself.  
Self-Accelerating Decomposition Temperature: No data is available on the product itself.  
Viscosity, Dynamic (77°F/25°C): No data is available on the product itself.  
Explosive Properties: No data is available on the product itself.  
Oxidizing Properties: No data is available on the product itself.  
Particle Size: No data is available on the product itself.

## Section 10: Stability and Reactivity

### Reactivity:

The product is stable and non-reactive under normal conditions of use, storage and transport.

### Chemical Stability:

Stable under recommended storage conditions (See Section 7).

### Possibility of Hazardous Reactions:

No known dangerous reactions will occur under normal storage and use.

### Conditions to Avoid:

Avoid exposure to moisture and high temperatures to protect product quality.

### Incompatible Materials:

Avoid contact with oxidizing materials, strong acids, strong bases and unintended contact with isocyanates.

### Hazardous Decomposition Products:

Under recommended storage conditions and use, hazardous decomposition products should not be produced.

## Section 11: Toxicological Information

Information on Likely Routes of Exposure: No data is available on the product itself.

### Acute Toxicity:

2-Propanol, 1-chloro-, phosphate (3:1)  
LD50 Oral (Rat) 500mg/kg  
LD50 Dermal (Rabbit) 1,230 mg/kg  
LC50 Inhalation (Rat) 5 mg/l(2-dimethylaminoethyl) ether  
LD50 Oral (Rat) 910 mg/kg  
LD50 Dermal (Rabbit) 238 mg/kg  
LC50 Inhalation (Rat) 117 ppm

Ethanol, 2-[[2-(dimethylamino) ethyl] methylamino]  
LD50 Oral (Rat) 2,000 mg/kg  
LD50 Dermal (Rabbit) 2,000 mg/kg  
LC50 Inhalation (Rat) 20 mg/l

Serious Eye Damage / Eye Irritation:

2-Propanol, 1-chloro-, phosphate (3:1)  
Species:  
Exposure:  
Result:

Bis (2-dimethylaminoethyl) ether  
Species:  
Exposure:  
Result:  
Ethanol, 2-[[2-(dimethylamino) ethyl] methylamino]  
Species:  
Exposure:  
Result:

Skin Corrosion / Irritation:

Ethanediol  
Species:  
Exposure:  
Result:

2,2 Oxibisethanol  
Species:  
Exposure:  
Result:

Germ Cell Mutagenicity

No data available.

Carcinogenicity

Product:

This product is not classified as a carcinogen. Due to the form of the product, exposure to the potentially carcinogenic components is not expected.



Product Name	OSHA	IARC	NTP	ACGIH	EPA	NIOSH

#### Reproductive Toxicity

Prolonged exposure may cause chronic effects. May damage fertility. May damage the unborn child.

#### Specific Target Organ Toxicity (STOT)

Product: Single Exposure (STOT-SE):

May cause drowsiness, dizziness, headache, nausea and/or vomiting.

Product: Repeated Exposure (STOT-RE):

May cause damage to organs (kidney) through prolonged or repeated exposure (oral).

Product Name

Category:

Route of Exposure:

Target Organ:

#### Aspiration Toxicity

Based on available data, this product is not expected to cause aspiration toxicity.

#### Likely Routes of Exposure

Eye contact, Inhalation, Dermal contact. Ingestion.

#### Potential Acute Health Affects

Eye Contact: Causes serious eye irritation.

Inhalation: No known significant effects or critical hazards.

Skin Contact Causes skin irritation. May cause an allergic skin reaction.

Ingestion: Harmful if swallowed. Consult a physician.

### Section 12: Ecological Information

#### Ecotoxicity

Ecotoxicity:

This product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Acute Aquatic Toxicity:

This product is not classified as acutely environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Chronic Toxicity:

This product is not classified as having a chronic environmental hazard. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

#### Environmental Effects:

This product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful effect on the environment.

2-Propanol, 1-chloro-, phosphate (3:1)

Species: Brachydanio Rerio

Exposure Time: 96 hours

Result: Acute LC50 56.2 mg/l (static)

Species: Pimephales Promelas

Exposure Time: 96 hours

Result: Acute LC50 98mg/l (static)

Species: Poecilia Reticulata

Exposure Time: 96 hours

Result: Acute LC50 30 mg/l (static)

Species: Daphnia Magna

Exposure Time: 48 hours

Result: EC50 63 mg/l

Species: Desmodesmus Subspicatus

Exposure Time: 72 hours

Result: EC50 45 mg/l

Species: Pseudokirchneriella Subcapitata

Exposure Time: 96 hours

Result: EC50 4 mg/l

#### Persistence and Degradability

Biodegradability – Product: This product contains substances which are not expected to be readily biodegradable.

Biochemical Oxygen Demand (BOD): No data available.

Chemical Oxygen Demand (COD): No data available.

BOD/COD: No data available.

ThOD: No data available.

Dissolved Organic Carbon (DOC): No data available.

Physico-Chemical Removability: No data available.

#### Stability in Water:

Photodegradation: No data available.

Impact on Sewage Treatment: No data available.

#### Bioaccumulative Potential

Bioaccumulation – Product: No data available.

Product Name	BCF	LogPow	Potential

**Mobility in Soil**

Mobility: No data available.

Distribution Among Environmental Compartments: No data available.

Stability in Soil: No data available.

**Other Adverse Effects**

Environmental Fate and Pathways: No data available.

Results of PBT and vPvB Assessment: No data available.

Endocrine Disrupting Potential: No data available.

Adsorbed Organic Bound Halogens (AOX): No data available.

**Hazardous to the Ozone Layer**

Ozone-Depletion Potential: No data available.

Additional Ecological Information: No data available.

Global Warming Potential (GWP): No data available.

**Section 13: Disposal Considerations**

**Disposal Methods**

**Waste from Residues:**

Dispose of contents and container in accordance with all local, regional, national, and international regulations. Avoid release to the environment. Do not dispose of waste in sewer. Do not contaminate ponds, waterways, or ditches with chemical or used container. Send to a licensed waste management company.

**Contaminated Packaging:**

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Dispose of contents and container in accordance with all local, regional, national, and international regulations. Do not cut, grind, drill, weld, or re-use empty containers.

**Section 14: Transport Information**

**International Regulations**

IATA: Not regulated as dangerous goods.

IMDG: Not regulated as dangerous goods.

TDG: Not regulated as dangerous goods.

**National Regulations**

DOT Non-Bulk: Not regulated as dangerous goods.

DOT Bulk: Not regulated as dangerous goods.

#### Special Precautions for User

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet (SDS). Transportation classifications may vary by mode of transportation, package sizes and variations in regional or country regulation. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

### Section 15: Regulatory Information

US Federal Regulations:

CERCLA Reportable Quantity:

Component(s)	CAS#	%	Acute Health Hazard (Immediate)	Delayed Health Hazard (Chronic)	Fire Hazard	Sudden Release of Pressure	Reactive

U.S. Toxic Substances Control Act (TSCA) Section 8(b): All components are listed or exempt.  
SARA 311/312: Acute health hazard, chronic health hazard.

International Regulations:

Canada:

WHMIS: Class D-2B Material causing other toxic effects (toxic)

CEPA (DSL): All components are listed or exempted.

Canadian NPRI: Ethanediol

CEPA Toxic Substances: None of the components are listed.

Canada Inventory: All components are listed or exempted.



### Section 16: Other Information

Further Information

NFPA Ratings (Scale 0-4)



Health 2  
Flammability 1  
Instability 0

HMIS® IV Ratings (Scale 0-4)

HEALTH	2
FLAMABILITY	1
PHYSICAL HAZARD	0

Health 2  
Flammability 1  
Instability 0

Abbreviations:

DOT	U.S. Department of Transportation
IATA	International Air Transport Association
ACGIH	American Conference of Governmental Industrial Hygienists
NTP	National Toxicology Program
IARC	International Agency for Research on Cancer
PPE	Personal Protective Equipment
OSHA	U.S. Occupational Safety & Health Administration
SARA	Superfund Amendments and Reauthorization Act
WHMIS	Workplace Hazardous Materials Information System
TSCA	US Toxic Substances Control Act
CEPA	Canadian Environmental Protection Act
DSL	Canada Domestic Substance List
NPRI	National Pollutant Release Inventory
NFPA	National Fire Protection Association
HMIS	Hazardous Materials Identification System

NOTICE: The information and recommendations in this publication are to the best of our knowledge, information, and belief accurate at the date of publication. Nothing herein is to be construed as a warranty, express or otherwise. In all cases, it is the responsibility of the user to determine the applicability of such information and recommendations and the suitability of any product for its particular purpose. The product may present hazards and should be used with caution. While certain hazards are described in this publication, no guarantee is made that these are the only hazards that exist. Hazards, toxicity, and behavior of the products may differ when used with other materials and are dependent upon the manufacturing circumstances or other processes. Such hazards, toxicity and behavior should be determined by the user and made known to handlers, processors, and end users. The trademarks above are the property of AMBIT Polyurethane or an affiliate thereof. No person or organization except a duly authorized AMBIT Polyurethane employee is authorized to provide or make available safety data sheets for AMBIT Polyurethane products. Safety data sheets from unauthorized sources may contain information that is no longer current or accurate.

Prepared For: ALPHA Polymers LLC

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