400 PATERSON PLANK ROAD | CARLSTADT, NJ 07072
PHONE: (201) 933-0600 | FAX: (201) 933-8442
WWW.ADVPOLYMER.COM

AdvaBond® 8205

Section 1. Product and Company Identification

Product Name:	AdvaBond® 8205
Chemical Name/Family:	Maleic anhydride modified chlorinated polypropylene / xylene solution
CAS No.:	Mixture
Product Use:	Adhesion Promoter
Restrictions:	For Industrial Use Only
Company:	Advanced Polymer.
Address:	400 Paterson Plank Road Carlstadt, NJ 07072 U.S.A.
Telephone:	201-933-0600
Fax:	201-933-8442
24 Hour Emergency Number	800-424-9300
24 Hour Chemtrec Number	800-424-9300

Section 2. Hazards Identification

GHS Classifcation:

Flammable liquids	Category 3
Acute toxicity, oral	Category 5
Acute toxicity, dermal	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Acute toxicity, inhalation: vapour	Category 4 (Vapour)
Sensitization, skin	Category 1
Specific target organ toxicity, single exposure	Category 1 (Central nervous system, Respiratory system, Kidneys, Liver)
	Category 3 (Narcotic effects)
Specific target organ toxicity, repeated exposure	Category 1 (Central, peripheral nervous system, Respiratory system)
Carcinogenicity	Category 2
Reproductive toxicity	Category 1B
Hazardous to the aquatic environment, acute toxicity	Category 2
Hazardous to the aquatic environment, chronic toxicity	Category 2

GHS Label:

Symbol:

Signal Word: **Danger**

Hazard Classification:

Hazard Statement:

Flammable liquid and vapor

May be harmful if swallowed

Harmful in contact with skin
Causes skin irritation
Harmful if inhaled
May cause an allergic skin reaction

Causes serious eye irritation

Causes damage to organs (Central nervous system, Respiratory system, Kidneys, Liver)

Causes damage to organs through prolonged or repeated exposure (Central, peripheral nervous system, Respiratory system)

Suspected of causing cancer

May damage fertility or the unborn child

May cause drowsiness or dizziness

Toxic to aquatic life

Toxic to aquatic life with long lasting effects

Precautionary Statement:

Prevention

Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

Keep container tightly closed.

Ground/Bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting and other personal protective equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Wear protective gloves/eye protection/face protection.

Wash uncovered body surfaces and hands thoroughly after handling.

Do not breathe dust/fume/gas/mist/vapors/sprays.

Use only outdoors or in a well-ventilated area.

Contaminated work clothing should not be allowed out of the workplace.

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Use personal protective equipment as required.

Do not eat, drink or smoke when using this product.

Avoid release to the environment.

Response

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

In case of fire: Use alcohol resistance foam, carbon dioxide, dry-chemical extinguishing system and not water.

Call a POISON CENTER/doctor/physician if you feel unwell.

IF ON SKIN: Wash with plenty of soap and water.

Specific measures (see Section 4 First Aid Measures on this SDS).

Wash contaminated clothing before reuse.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Call a POISON CENTER or doctor/physician if you feel unwell.

Specific treatment (see supplemental first aid instructions on this SDS).

IF exposed: Call a POISON CENTER or doctor/physician.
If skin irritation occurs: Get medical advice/attention.

Take off contaminated clothing and wash before reuse.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF exposed or concerned: Call a POISON CENTER or doctor/physician.

Call a POISON CENTER or doctor/physician if you feel unwell.

Get medical advice/attention if you feel unwell.

Collect spillage.

Storage

Store in a well-ventilated place. Keep cool.

Keep container tightly closed.

Store locked up.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 3. Composition/Information on Ingredients

Ingredients	CAS No.	Percent
Modified Chlorinated Polypropylene with maleic anhydride	Trade Secret	57.0 – 58.0
[[4-(1,1-Dimethylethyl)phenoxy]methyl]oxirane (p-tert-butylphenyl glycidyl ether)	3101-60-8	<3.0
Xylene	1330-20-7	42.0-43.0
Toluene	108-88-3	<0.3
Chloroform	67-66-3	<1.0

Section 4. First Aid Measures

Skin Contact: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin

irritation or rash occurs: Get medical advice/attention.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Inhalation: Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if you feel unwell.

Ingestion: Rinse mouth with water. Immediately call a POISON CENTER or doctor/physician.

Section 5. Firefighting Measures

Fire and Explosion Hazard: There is a risk of fire or explosion by contact with heat or flame. Avoid inhalation of material or combustion by-products (carbon monoxide and hydrogen chloride). Material is lighter than water and a fire may be spread by the use of water.

Fire Extinguishing Media: Regular dry chemical, carbon dioxide, or alcohol-resistant foam.

Unsuitable Extinguishing Media: No information aavailable

Specific Hazards in Case of Fire: Move container from fire area if it can be done without risk. Prohibited from entering into locations around the fires. Cool container with water spray.

Special Fire Fighting Information: Wear protective gloves, safety glasses, air-purifying respirators.

Section 6. Accidental Release Measures

Personal Precautions: Avoid breathing mist or vapours. Ensure adequate ventilation. Evacuate personnel to safe areas.

Protective Equipment: Use personal protective equipment (cartridge respirator, safety goggles, chemical resistant gloves).

Environmental Precautions: Remove all sources of ignition. Avoid discharging into the environment. Do not let enter drain.

Methods and Materials for Containment and Cleaning up: Collect liquid in an appropriate container or absorb with an inert material (e.g. sand, earth, vermiculite) and place in a chemical waste container.

Section 7. Handling and Storage

Handling Conditions: Avoid contact with skin and eyes or clothing. Avoid inhalation of vapours or mist. Use personal protective equipment (e.g. safety glasses, gas respirators, protective gloves). Wash thoroughly after handling. To keep out non-participants. Use spark-proof tools and explosion-proof equipment. Take precautionary measures against static discharge. ***** Agitate contents of container before using *****

Storage Conditions: Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place. Store locked up. Keep container tightly closed. Keep away from heat sparks and open flame. Store away from incompatible materials.

Section 8. Exposure Control/Personal Protection

Exposure Limits:

CAS-No.	Components	Value type (Form of exposure)	Control parame-ters / Permissible concentration	Basis
1330-20-7	Mixed	TWA	100 ppm	ACGIH

		xylenes	STEL	150 ppm	ACGIH
			TWA	100 ppm 435 mg/m3	OSHA Z-1
			TWA	100 ppm	ACGIH
	67-66-3	Chloroform	TWA	10 ppm	

Appropriate engineering controls: General ventilation required.

Personal protective equipment:

Respiratory Protection:	Chemical cartridge respirators.
Hand Protection:	Chemical resistant gloves.
Eye Protection:	Use safety glasses, coverall chemical goggles.
Skin and Body Protection:	Wear appropriate chemical resistant clothing.
Other Protective Equipment:	Provide an emergency eye wash fountain and quick drench shower in the immediate work area.
Hygiene Measures:	Wash uncovered body surfaces and hands thoroughly after handling.

Section 9. Physical and Chemical Properties

Physical State:	Viscous liquid
Color:	Pale yellow to amber
Odor:	Aromatic
Odor Threshold:	No information available.
pH:	No information available.
Specific Gravity (77°F):	>1
% Volatile by Weight:	43
% Non-Volatile by Weight:	57
% VOC:	43
Melting Point:	No information available.
Freezing Point:	No information available.
Boiling point:	Not available. Xylene: 282-291 ° F (139-144℃)
Flash Point:	No information available. Xylene: 28°C (82°F) (TCC)
Evaporation Rate (BuAc=1):	No information available.
Flammability:	Not available. Xylene: 1.0% to 7.0% by volume
Explosion Limits:	No information available.
Vapor Pressure (mmHg):	Not available. Xylene: 7-9mmHg/68 ° F (20℃)
Vapor Density (Air=1):	Not available. Xylene: 3.7
Density	Not available. Xylene: 0.88/68 ° F (20℃)
Solubility:	Insoluble in water
n-Octanol/Water Partition Coefficient:	No information available. Xylene: Log Pow=3.12
Auto-ignition Temperature:	No information available.
Viscosity:	No information available.
Decomposition Temperature:	No information available.

Section 10. Stability and Reactivity

Chemical Stability:	Stable at normal temperatures and pressure.
Hazardous Polymerization:	May not occur.
Conditions to Avoid:	Avoid heat, flames, sparks and other sources of ignition.
Incompatible Materials:	Strong oxidizing materials and acids.
Hazardous Decomposition Products:	Thermal decomposition products: Carbon monoxide, carbon dioxide, and hydrogen chloride.

Section 11. Toxicological Information

Primary Routes of Entry:

Eye:	Yes	Skin:	Yes	Inhalation:	Yes	Ingestion:	Yes

Potential Health Effects:

Inhalation:	May be harmful if inhaled.
Ingestion:	May be harmful if swallowed and enters airways.
Skin:	Causes skin irritation.
Eyes:	Causes serious eye irritation

Signs and Symptoms of Exposures:

Acute Toxicity: May be harmful if swallowed. May be harmful if inhaled.

Xylene: oral-rat LD50 3500, 4300 mg/kg
dermal-rabbit LD50 >4350 mg/kg
inhalation-rat(vapor) LC50 6700 ppm (29.08 mg/kg) 4Hr

Chloroform: oral-rat LD50 450 mg/kg

Chronic Toxicity: No information available.

Respiratory Sensitization: No information available.

Skin Sensitization: May cause an allergic skin reaction.
p-tert-butylphenyl glycidyl ether: May cause an allergic skin reaction.

Mutagenicity: Classification not possible
Xylene(o,m,p): Micronucleus test; Chromosomal aberration test (in vivo); negative
***p*-tert-butylphenyl glycidyl ether:** Strong mutagenicity
Chloroform: Ames Test; Positive (+/-S9); Chromosomal aberration test; Positive (in vivo); Micronucleus test ; Positive (in vivo)

Toxic to reproduction: May damaging fertility or the unborn child
Xylene(o,m,p): mouse developmental toxicity tests ; Based on the evidence of weight reduction and hydrocephalus at fetuses at dosing levels not toxic parent animals.
Chloroform: Suspected to result embryotoxicity and teratogenicity (mouse)

Specific Target Organ Toxicity (Single Exposure): May cause drowsiness or dizziness.
Xylene(o,m,p): Based on the human evidence including "throat irritation, severe pulmonary congestion, alveolar hemorrhage, pulmonary edema, congestion accompanying hepatomegaly, centrilobular vacuolation of hepatocytes, nerve cell damage associated with dot hemorrhage, swelling and disappearance of Nissl bodies, limb cyanosis, a transient increase in serum transaminase activity, an increase in the blood level of urea, a decrease in endogenous creatinine clearance in the urine, liver damage, severe kidney damage, amnesia, coma" and "pulmonary

	congestion, pulmonary edema, focal alveolar hemorrhage" and the evidence from animal studies including "strong narcotic effect. **Chloroform:** Causes damage to Liver and Kidneys. May cause drowsiness or dizziness.
Specific Target Organ Toxicity (Repeated Exposure):	Cause damage to respiratory system, nervous system (central, peripheral) through prolonged or repeated exposure **Xylene(o,m,p):** Based on the human evidence including eye/nose irritation, thirst and chronic headache, chest pain, abnormal electroencephalogram, dyspnea, cyanosis of the hands, fever, a decrease in WBC count, discomfort, impairment of pulmonary function, a decrease in working capacity, physical/mental disorders. **Chloroform:** Causes damage to liver, kidneys, central nervous system and respiratory irritation through prolonged or repeated exposure.
Aspiration hazard	Classification not possible **Xylene(o,m,p)**: May cause aspiration and chemical pneumonia if swallowed.
Carcinogenicity:	Suspected of causing cancer.

IARC:	Xylene: Group 3	ACGIH	Xylene: A4	OSHA:	No information available

Section 12. Ecological Information

Ecotoxicity (Aquatic and Terrestrial):	Toxic to aquatic life with long lasting effects Xylene(o,m,p): Oncorhynchus mykiss LC50 3.3mg/L/96hr Chloroform: Oncorhynchus mykiss LC50 1.24-2.03mg/L/96hr
Persistence / Degradability:	Not bio-degradable in the environment, remain for along time. Xylene(o,m,p): 39%(BOD) There is no rapid degradation. Chloroform: 0% (BOD) There is no rapid degradation.
Bioaccumulative Potential	It is presumed that bioaccumulation is low. Xylene(o,m,p): log Pow = 3.16 Chloroform: BCF=13
Mobility in Soil:	No information available.
PBT and vPvB Assessment:	No information available.
Other Adverse Effects:	No information available.

Section 13. Disposal Considerations

Product:	Dispose of contents/container in accordance with local/regional/ national/international regulation. Contact a licensed professional waste disposal service to this material. Dissolve or mix with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Do not dump this product into sewers, on the ground or into any body of water.
Disposing of Contaminated Packaging:	Dispose of as unused product.

Section 14. Transport Information

Land Transport (DOT):

UN Number:	1866
UN Proper Shipping Name:	Resin solution

Transport Hazard Class:	3
Packing Group:	III
Sea Transport (IMDG):	
UN Number:	1866
UN Proper Shipping Name:	Resin Solution
Transport Hazard Class:	3
Packing Group:	III
Air Transport (IATA):	
UN Number:	1866
UN Proper Shipping Name:	Resin Solution
Transport Hazard Class:	3
Packing Group:	III
Environmental Hazards (e.g., Marine pollutant):	No

Section 15. Regulatory Information

International Inventories:	
TSCA (USA):	Listed
DSL (Canada):	No information available
ENCS (Japan):	No information available
REACH (Europe):	No information available
IECSC (China):	No information available
KECL (Korea):	No information available
PICCS (Philippines):	No information available
AICS (Australia):	No information available
ERMA (New Zealand):	No information available
Federal Regulations:	
SARA 313:	Xylene (CAS # 1330-20-7) Chloroform (CAS # 67-66-3) Toluene (CAS # 108-88-3)
SARA 311/312:	No information available.
Clean Water Act:	No information available.
Clean Water Act:	No information available.
Clean Air Act, Section 112 HAPs (See 40CFR61):	No information available.
State Regulations:	
Massachusetts Right to Know Components:	No information available.
New Jersey Right to Know Components:	No information available.
Pennsylvania Right to Know Components:	No information available.
California Proposition 65:	Xylene (CAS # 1330-20-7) Chloroform (CAS # 67-66-3) Toluene (CAS # 108-88-3)

Section 16. Other Information

WHMIS Classification: No information available.

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HMIS Rating:	
Health Hazard	2
Flammability:	3
Physical Hazard:	0
Personal Protection Equipment:	X
NFPA Rating	
Health Hazard:	2
Fire Hazard:	3
Reactivity Hazard:	0

Date Prepared ..... November 2, 2020
Prepared By .....Advanced Polymer.
Date Revised .....August 10, 2021
Revised By .....Advanced Polymer.

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