

AdvaBond® 7444

Section 1. Product and Company Identification

Product Name:	AdvaBond® 7444
Chemical Name/Family:	Modified polyolefin with maleic anhydride
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 Classification:

Skin corrosion/irritation	Category 3
Eye damage / eye irritation	Category 2A

GHS Label:



Pictogram:

Signal Word: Warning

Hazard Classification:

Hazard Statement:

- Causes mild skin irritation
- Causes serious eye irritation

Precautionary Statements:

Prevention

- Wear protective gloves/protective clothing/eye protection/face protection.
- Wash uncovered body surface and hands thoroughly after handling.

Response

- If skin irritation occurs: Get medical advice/attention.
- 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.

Storage

No storage statement required under GHS however refer to Section 7 for current storage conditions.

Disposal

No disposal statement required under GHS however refer to Section 13 for current disposal considerations.

Section 3. Composition/Information on Ingredients

Ingredients	CAS No.	Percent (wt%)
Modified polyolefin with maleic anhydride	Proprietary	Trade Secret
Emulsifier	Proprietary	Trade Secret
Triethylamine	121-44-8	Trade secret
Water	7732-18-5	67.0 - 71.0

Section 4. First Aid Measures

Skin Contact:	Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation 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 victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
Ingestion:	Rinse mouth with water. Get medical attention if you feel unwell.

Section 5. Firefighting Measures

Specific Hazards in Case of Fire:	Avoid inhalation of material or combustion by-products (carbon monoxide, nitrogen oxides).
Fire Extinguishing Media:	Water spray, regular dry chemical, carbon dioxide, alcohol-resistant foam
Unsuitable Extinguishing Media:	No information available.
Special Protective Equipment and Precaution for Firefighters:	Move containers from fire area if it can be done without risk. If you cannot move, cool container and its surroundings with water spray. Prohibited from entering into locations around the fires. Fighters should work from the windward side. Wear protective equipment, air-purifying respirator.
Unusual Fire & Explosion Hazards:	No information available.

Section 6. Accidental Release Measures

Personal Precautions:	Avoid contact with skin or eyes. Avoid breathing vapours or mist. Ensure adequate ventilation. Evacuate personnel to safe areas.
Protective Equipment:	Use personal protective equipment (e.g. protective gloves, gas respirators, safety glasses or goggles).
Environmental Precautions:	Discharge into the environment must be avoided. Do not let product enter the drain.
Methods and Materials for Containment and Cleaning up:	If there is no danger, stop leak. Collect liquid in an appropriate container or absorb with an inert material (e.g. sand earth vermiculite), and place in a chemical waste container. If product is leaked a lot, enclosed by

embankments to prevent runoff, leading to a safe place to recover. Remove all sources of ignition.

Section 7. Handling and Storage

Handling Conditions:	Avoid contact with eyes, skin or clothing. Avoid inhalation of vapours or mist. Use personal protective equipment (e.g. safety goggles, gas respirators, safety glasses). Provide appropriate local exhaust or ventilation at working area. Good ventilation is needed at work area. Avoid contact with strong oxidizing materials and acids. Do not eat, drink or smoke when using this product. Wash uncovered body surface and hands thoroughly after handling. ***Agitate thoroughly before use.***
Storage Conditions:	Store in a well-ventilated area above 32°F (>0°C) preferably to 40°F – 104°F (4°C – 40°C). Store in a dry, cool place. Keep container tightly closed when not in use. If the product freezes, allow the product to thaw then mix thoroughly. Product quality testing should be performed before using.

Section 8. Exposure Control/Personal Protection

Exposure Limits:	Triethylamine: 1ppm TLV-TWA
Appropriate engineering controls:	Provide local exhaust ventilation system.
Personal protective equipment:	
Respiratory Protection:	Chemical cartridge respirators.
Hand Protection:	Chemical resistant gloves.
Eye Protection:	Wear Safety glasses. Chemical goggles.
Skin and Body Protection:	Wear appropriate chemical resistant clothing.
Other Safety Equipment:	Provide an emergency eye wash fountain and quick drench shower in the immediate work area.
Hygiene Measures:	Wash hands thoroughly after handling.

Section 9. Physical and Chemical Properties

Physical State:	Liquid
Color:	Translucent White
Odor:	Slight
Odor Threshold:	No data available
pH:	8.0 – 11.0
Specific Gravity (77°F):	0.97
% Volatile by Weight:	~70.0
% VOC:	>2.0
Melting Point:	~ 32°F (0°C)
Freezing Point:	No data available
Boiling point:	No data available
Flash Point:	≥176°F (80°C) (Similar product)
Evaporation Rate (BuAc=1):	No data available
Flammability:	No data available
Explosion Limits:	No data available

Vapor Pressure (mmHg):	No data available
Vapor Density (Air=1):	No data available
Solubility:	Dispersible in water
n-Octanol/Water Partition Coefficient:	Triethylamine : 1.15
Auto-ignition Temperature:	No data available
Viscosity:	No data available
Decomposition Temperature:	No data available

Section 10. Stability and Reactivity

Chemical Stability:	Stable at normal temperatures and pressure. On contact with hot surfaces or flames this substance decomposes forming carbon monoxide and nitrogen oxides.
Hazardous Polymerization:	May not occur
Conditions to Avoid:	Avoid heat, sparks, open flames and hot surfaces.
Incompatible Materials:	Strong oxidizing materials, strong acids
Hazardous Decomposition Products:	Thermal decomposition products: Carbon monoxide, nitrogen oxides (combustion)

Section 11. Toxicological Information

Primary Routes of Entry:

Eye:	Yes	Skin:	Yes	Inhalation:	Yes	Ingestion:	Yes
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Inhalation	Harmful if inhaled.
Ingestion:	May be harmful if swallowed.
Skin:	Harmful in contact with skin; Causes mild skin irritation.
Eyes:	Causes serious eye irritation.
Signs and Symptoms of Exposures:	No information available
Acute Toxicity	Triethylamine: Inhalation (Rat) LC50 4H – 7.1 mg/l Oral (Rat) LD50 730mg/kg (OECD Test Guideline 401) Dermal (Rabbit) 580 mg/kg (OECD Test Guideline 402) Emulsifier: Oral-rat LD50 200~2000mg/kg (allied substance)
Skin corrosion/irritation:	Triethylamine : Skin Rabbit – Extremely corrosive and destructive to tissue Emulsifier: Rabbit ; no irritation
Eye damage/ irritation:	Triethylamine : Eyes Rabbit – Risk of serious damage to eyes (OECD Test Guideline 405) Emulsifier: Rabbit ; Risk on severe disabilities (allied substance)
Skin Sensitization:	Classification not possible(GHS)
Respiratory Sensitization:	Not available
Mutagenicity:	Classification not possible(GHS)
Carcinogenicity:	Classification not possible (GHS)
Reproductive toxicity:	Suspected of damaging fertility or the unborn child
Specific target to organ toxicity	Causes damage to Central nervous system, Blood, Liver or Kidneys

(single exposure)	Triethylamine : Inhalation - May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	May cause damage to Nervous system and Blood through prolonged or repeated exposure.
Aspiration hazard	Not available

Section 12. Ecological Information

Ecotoxicity	Harmful to aquatic life Emulsifier : Crustacea(Daphnia magna) EC50 10-100mg/L/48hr Algae(green algae) EC50 10-100mg/L/72hr (allied substance)
Persistence / Degradability	Not degradable in the environment, remain for a long time. (in the resin composition) Emulsifier : Biodegradable
Bioaccumulation	Not available
Mobility in Soil:	No data available
Other Adverse Effects:	No data available

Section 13. Disposal Considerations

Product:	Dispose of contents / container in accordance with local / regional / national /international regulation. Do not dump into sewers, on the ground or into any body of water. Burn in chemical incinerator equipped.
Disposing of Contaminated Packaging:	Contact a licensed professional waste disposal service to this material.

Section 14. Transport Information

Land Transport (DOT):	Not Regulated
UN Number:	Not Applicable
UN Proper Shipping Name:	Not Applicable
Transport Hazard Class:	Not Applicable
Packing Group:	Not Applicable
Sea Transport (IMDG):	Not Regulated
UN Number:	Not Applicable
UN Proper Shipping Name:	Not Applicable
Transport Hazard Class:	Not Applicable
Packing Group:	Not Applicable
Air Transport (IATA):	Not Regulated
UN Number:	Not Applicable
UN Proper Shipping Name:	Not Applicable
Transport Hazard Class:	Not Applicable
Packing Group:	Not Applicable
Environmental Hazards (e.g., Marine pollutant):	None

Section 15. Regulatory Informational

International Inventories:

TSCA (USA):	Yes, all components are listed AS ACTIVE in TSCA
NDSL (Canada):	Yes
ENCS (Japan)	Yes
REACH (Europe):	No
IECSC (China):	No
KECL (Korea):	No
PICCS (Philippines):	No
AICS (Australia):	No
ERMA (New Zealand):	Unknown

Federal Regulations:

SARA 313:	None
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:	Triethylamine (CAS # 121-44-8)
New Jersey Right to Know Components:	Triethylamine CAS # 121-44-8)
Pennsylvania Right to Know Components:	Triethylamine (CAS # 121-44-8)
California Proposition 65:	No information available

Section 16. Other Information

WHMIS Classification: No information available

HMIS Rating:

Health Hazard	1
Flammability:	1
Physical Hazard:	0
Personal Protection Equipment:	X

NFPA Rating

Health Hazard:	1
Fire Hazard:	1
Reactivity Hazard:	0

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