

AdvaBond® 8227

Section 1. Product and Company Identification

Product Name: Advabond®8227

Chemical Name/Family: Modified Chlorined polyolefin

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:

Physical Hazards

Flammable liquids Category 2

Health Hazards

Acute toxicity (oral)

Aspiration hazard

Category 1

Skin corrosion irritation

Category 2

Serious Eye damage / eye irritation

Category 2B

Specific target organ toxicity, single exposure Category 3 (Respiratory system)

Sensitization, skinCategory 1CarcinogenicityCategory 2Toxic To ReproductionCategory 2

Specific target organ toxicity, single exposure Category 3 (Narcotic effects)

Environmental Hazards

Hazardous to the aquatic environment (acute toxicity)

Category 1

GHS Label:

Pictogram:



Signal Word: Danger



Hazard Classification:

Hazard Statement:

Highly flammable liquid and vapour

Harmful if swallowed

May be fatal if swallowed and enters airways

Causes eye irritation

Causes damage to central nervous system

May cause respiratory irritation;

May cause drowsiness or dizziness

Very toxic to aquatic life

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 equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Wear protective gloves/protective clothing/eye protection/face protection.

Avoid breathing dust/fume/gas/mist/vapours/spray.

Wash hands and uncovered body surface thoroughly after handling.

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

Use only outdoors or in well-ventilated area.

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 for extinction.

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

Rinse mouth.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

Do NOT induce vomiting.

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

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.

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.

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

If skin irritation occurs: Get medical advice/attention.

Take off contaminated clothing and wash before reuse.

Collect spillage.

Storage

Store in a well-ventilated place. Keep cool.

Store locked up.

Disposal

Dispose of contents/container in accordance with local / regional / national / international regulation to be specified.

Section 3. Composition/Information on Ingredients

Ingredients	CAS No.	Percent
Modified Chlorinated Polymer	Trade Secret	~30
Cyclohexane	110-82-7	50-55
n-Butyl acetate	123-86-4	10-20
Chloroform	67-66-3	<1%

Section 4. First Aid Measures

Skin Contact: Remove / Take off immediately all contaminated clothing. Rinse skin with water/shower.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses. If inhaled, 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. Call a

POISON CENTER or doctor/physician if you feel unwell.

Ingestion: Rinse mouth. Call a POISON CENTER or doctor / physician if you feel unwell.

Section 5. Firefighting Measures

Specific Hazards in Case of Fire: Highly flammable liquid and vapour. Avoid inhalation of material or



combustion by-products (carbon oxide).

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

No information available.

Unsuitable Extinguishing Media: Material is lighter than water and a fire may be spread using water.

Special Protective Equipment Keep personal removed from and upwind of fire. Prohibited from entering and Precaution for Firefighters: locations around the fires. Cool container with water spray. Wear self-

contained breathing apparatus. Wear full protective equipment.

Unusual Fire & Explosion

Hazards:

Section 6. Accidental Release Measures

Personal Precautions: Remove all sources of ignition. Avoid breathing vapors, mist or gas. Ensure

adequate ventilation. Evacuate personnel to safe areas.

Protective Equipment: Wear appropriate personal protective equipment (e.g. safety goggles,

protective gloves, dust respirators)

Environmental Precautions: Discharge into the environment must be avoided. Do not let product 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 vapor or mist.

Wash thoroughly after handling. Use spark-proof tools and explosion-proof equipment. Good ventilation is needed at work area. Provide an emergency eye wash fountain and quick drench shower in the immediate work area. Store in a well-ventilated place and in a cool dry place. Combustible. Protect

Storage Conditions:

from (strong) oxidizing materials. Package in an epoxy coating steel drum.

Section 8. Exposure Control/Personal Protection

Exposure Limits: Cyclohexane: 100ppm ACGIH TLV-TWA

n-Butyl Acetate: 150ppm ACGIH TLV-TWA

n-Butanol: 20ppm ACGIH TLV-TWA

Appropriate engineering

controls:

Provide appropriate exhaust ventilation at places where mist and vapour is

formed.

Personal protective equipment:

Respiratory Protection: Chemical cartridge respirator. Hand Protection: Chemical resistant gloves.

Eye Protection: Use safety glasses. If dust exposure causes eye discomfort, use chemical

Skin and Body Protection: Wear appropriate chemical resistant clothing and boots.

Other Protective 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: Viscous liquid

Color: Yellow Odor: Sweet odor



Odor Threshold: No information available

pH: Not applicable

Specific Gravity (77°F):

% Volatile by Weight: ~30

Melting Point: No information available

Freezing Point: n-Butyl acetate: -108°F (-78°C)

Cyclohexane: 4 - 7 °C (39 - 45 °F)

Boiling point: n-Butyl acetate: 257-261°F (125-127°C)

Cyclohexane: 80.7 °C (177.3 °F)

Flash Point: n-Butyl acetate: 72°F (22°C)(CC)

Cyclohexane: -18.0 °C (-0.4 °F) (CC)

Evaporation Rate

(BuAc=1):

No information available

Flammability Limits: Butyl Acetate: 1.4 to 7.6% by volume

Cyclohexane: 1%-9% by volume n-Butanol: 1.4% - 11.2% by volume

Explosion Limits: No information available

Vapor Pressure

n-Butyl acetate: 20 hPa (15 mmHg) at 25 °C (77 °F);

(mmHg):

Cyclohexane: 225.0 hPa (168.8 mmHg) at 37.7 °C (99.9 °F)

102.7 hPa (77.0 mmHg) at 20.0 °C (68.0 °F) n-Butanol: 5 hPa (4 mmHg) at 20 °C (68 °F)

Vapor Density (Air=1): n-Butyl acetate: 4.0

Solubility: Insoluble in water

Partition Coefficient: n-Butyl acetate: log Pow 1.78; Cyclohexane: log Pow: 3.44

Auto-ignition n-Butyl Acetate: 759-797°F(404-425°C)
Temperature: Cyclohexane: 260.0 °C (500.0 °F)

Viscosity: No information available

Decomposition No information available

Temperature:

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. Containers

may rupture or explode if exposed to heat.

Incompatible Materials: Oxidizing (strong) materials.

Hazardous Decomposition Products: Thermal decomposition products: Oxides of carbon

Section 11. Toxicological Information

Primary Routes of Entry:



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Eye:	Yes	Skin:	No	Inhala	ation:	Yes	Ingestio	n:	Yes
Potential He	alth Effects:								
Inhalation		Mist is harmful if inhaled. Vapor may be harmful if inhaled.							
Ingestion:		Harmful if swallowed.							
Skin:	Skin:		No information available.						
Eyes:			Causes eye irritation.						
Signs and Symptoms of Exposures:			No information available						
Acute Toxici	ty:			inhalat inhalat ane: LD50 Oral LC50 Inha Guideline	rabbit LD: ion-rat (va ion-rat(mi - Rat - 12 lation - Ra 403)	50 17600mg apour) LC50 ist) LC50 391	2000ppm .ppm (1.85	img/	L)
	Chloroform: oral-rat LD50 450mg/kg								
Skin corrosion/irritation		Direct contact may cause irritation. n-Butyl acetate: human mild							
Eye damage/eye irritation Chronic Toxicity:		Contact with fumes and the liquid may cause irritation. n-Butyl acetate: eyes-rabbit moderate Chloroform: eye-rabbit; Severe No information available							
Respiratory or Skin Sensitization:		No information available							
Mutagenicity:			Classification not possible (GHS) Chloroform: Ames Test; Positive (+/-S9) Chromosomal aberration test; Positive (in vivo) Micronucleus test; Positive (in vivo)						
Specific target organ toxicity (single exposure)			May cause damage to central nervous system. May cause drowsiness or dizziness. n-Butyl acetate: Central nervous system adverse effects were observed by the human data. Showed pulmonary edema and respiratory irritation due to animal testing. Chloroform: Human; necrosis of hepatic cells, liver damage, jaundice, hypertrophy of the liver, kidney damage, stertorous respiration, cyanosis and excessive sweating. Suspected of causing cancer						
Carcinogenio				1					
IARC:	Chlorofor Group-2E (Possibly	3	NTP:	Chlord (confinanima		OS	HA:	N.D).

Section 12. Ecological Information

carcinogenic to

humans)

Ecotoxicity (Aquatic and Terrestrial): Toxic to aquatic life with a long lasting effects

n-Butyl acetate: Crustacea (Daphnia magna) LC50 32000μg/L/48H

Chloroform: Oncorhynchus mykiss LC50 1.24-2.03mg/L/96hr

carcinogen)

Bioaccumulative Potential It is presumed that bioaccumulation is low.



Chloroform: BCF=13
No information available
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. Do not dump into sewers, on the

ground or into any body of water.

Disposing of Contaminated

PBT and vPvB Assessment:

Mobility in Soil:

Packaging:

Dispose as unused product. Contact a licensed professional waste

disposal service to this

material

Section 14. Transport Information

Land Transport (DOT):

UN Number: 1866

UN Proper Shipping Name: Resin solution

Transport Hazard Class: 3
Packing Group: II

Sea Transport (IMDG):

UN Number: 1866

UN Proper Shipping Name: Resin solution

Transport Hazard Class: 3
Packing Group: II

Air Transport (IATA):

UN Number: 1866

UN Proper Shipping Name: Resin solution

Transport Hazard Class: 3
Packing Group: II
Environmental Hazards (e.g., Marine pollutant): Yes

Section 15. Regulatory Information

International Inventories:

TSCA (USA): Yes
DSL (Canada): Yes
ENCS (Japan) Yes

REACH (Europe):

IECSC (China):

KECL (Korea):

PICCS (Philippines):

AICS (Australia):

Not listed

Not listed

ERMA (New Zealand): No information available

Federal Regulations:



SARA 313: Cyclohexane (CAS# 110-82-7)

n-Butyl acetate (123-86-4)

n-Butanol (71-36-2)

SARA 311/312: Chloroform (CAS # 67-66-3), <1%

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

No information available

Pennsylvania Right to Know Components:

No information available

California Proposition 65: Chloroform (CAS # 67-66-3), <1%

Section 16. Other Information

WHMIS Classification:	No information available		
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		

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