

Printing date 10/15/2015 Reviewed on 10/15/2015

### 1 Identification

· Product identifier

· Trade name: <u>AFW-8000 PART B</u> · Article number: AF8000WPTB

- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

**AquaBond LLC** 

6444 E Spring St #275 Long Beach, CA 90815

**USA** 

- · EMERGENCY PHONE: For product emergency involving spill, leak, fire, exposure, or accident call CHEMTREC at
- · (800) 424-9300. For all other inquires call AquaBond LLC at (714) 961-1420

## 2 Hazard(s) identification

· Classification of the substance or mixture



GHS08 Health hazard

Muta. 1B H340 May cause genetic defects.

Carc. 1B H350 May cause cancer.



**GHS05** Corrosion

Skin Corr. 1A H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

Flam. Liq. 4 H227 Combustible liquid.

- · Label elements
- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms





GHS05

GHS08

- · Signal word Danger
- · Hazard-determining components of labeling:

2-methylpentane-1,5-diamine

Solvent naphtha (petroleum), light arom.

Propan-1,3-diamine, n-[3-tridecycloxy)propyl]-,branched (adogen 583)

Bis (dimethyl a minomethyl) phenol

· Hazard statements

H227 Combustible liquid.

H314 Causes severe skin burns and eye damage.

H340 May cause genetic defects.

H350 May cause cancer.

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#### · Precautionary statements

P210 Keep away from flames and hot surfaces. – No smoking.

P260 Do not breathe dusts or mists.

P280 Wear protective gloves / eye protection / face protection.

P264 Wash thoroughly after handling. P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/

shower.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P321 Specific treatment (see on this label).

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P363 Wash contaminated clothing before reuse.

P308+P313 IF exposed or concerned: Get medical advice/attention. P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.

P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.

P405 Store locked up.

P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

- · Classification system:
- · NFPA ratings (scale 0 4)



Health = 3 Fire = 1 Reactivity = 1

· HMIS-ratings (scale 0 - 4)



Health = 3 Fire = 1 Reactivity = 1

- · Other hazards
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.

### 3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- $\cdot \textbf{Description:} \ Mixture \ of the \ substances \ listed \ below \ with \ nonhazardous \ additions.$

· Dangerous	· Dangerous components:				
15520-10-2	2-methylpentane-1,5-diamine	10-25%			
	Propan-1,3-diamine, n-[3-tridecycloxy)propyl]-,branched (adogen 583)	2.5-10%			
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	2.5-10%			
71074-89-0	Bis(dimethylaminomethyl)phenol	≤ 2.5%			
64742-95-6	Solvent naphtha (petroleum), light arom.	≤ 2.5%			

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### 4 First-aid measures

- · Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- · After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing: Drink copious amounts of water and provide fresh air. Immediately call a doctor.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed

No further relevant information available.

## **5 Fire-fighting measures**

- · Extinguishing media
- · Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · Special hazards arising from the substance or mixture
- During heating or in case of fire poisonous gases are produced.
- · Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

### 6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Use neutralizing agent.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## 7 Handling and storage

- · Handling:
- · Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

· Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Keep respiratory protective device available.

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- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Keep receptacle tightly sealed.
- · Specific end use(s) No further relevant information available.

#### 8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

#### · Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

## · Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

#### · Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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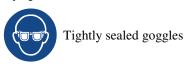


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· Eye protection:

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9 Physical and chemical proper	rties				
· General Information	· Information on basic physical and chemical properties · General Information				
· Appearance: Form:	Fluid				
Color:	According to product specification				
· Odor:	Characteristic				
· Odour threshold:	Not determined.				
· pH-value:	Not determined.				
· Change in condition					
Melting point/Melting range:	Undetermined.				
Boiling point/Boiling range:	193 °C (379 °F)				
· Flash point:	80 °C (176 °F)				
· Flammability (solid, gaseous):	Not applicable.				
· Decomposition temperature:	Not determined.				
· Auto igniting:	Product is not selfigniting.				
· Danger of explosion:	Not determined.				
· Explosion limits:					
Lower:	0.0 Vol %				
Upper:	0.0 Vol %				
· Vapor pressure:	Not determined.				
· Density:	Not determined.				
· Relative density	Not determined.				
· Vapour density	Not determined.				
· Evaporation rate	Not determined.				
· Solubility in / Miscibility with Water:	Not miscible or difficult to mix.				
· Partition coefficient (n-octanol/wat	er): Not determined.				
· Viscosity:					
Dynamic:	Not determined.				
Kinematic:	Not determined.				
· Solvent content:					
Organic solvents:	0.5 %				
VOC content:	0.5 %				
	4.9 g/l / 0.04 lb/gl				

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· Other information

No further relevant information available.

## 10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

## 11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

· LD/LC50	· LD/LC50 values that are relevant for classification:					
15520-10-	15520-10-2 2-methylpentane-1,5-diamine					
Oral	LD50	1690 mg/kg (rat)				
64742-95-	6 Solvent	naphtha (petroleum), light arom.				
Oral	LD50	>6800 mg/kg (rat)				
Dermal	LD50	>3400 mg/kg (rab)				
Inhalative	LC50/4 h	>10.2 mg/l (rat)				

- · Primary irritant effect:
- · on the skin: Strong caustic effect on skin and mucous membranes.
- $\cdot$  on the eye:

Strong caustic effect.

Strong irritant with the danger of severe eye injury.

- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Corrosive

**Irritant** 

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

The product can cause inheritable damage.

· Carcinogenic categories

	· IARC (International Agency for Research on Cancer)				
	1330-20-7	xylene	3		
Γ	100-41-4	ethylbenzene	2B		

### · NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

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## 12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

Water hazard class 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

Danger to drinking water if even small quantities leak into the ground.

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

## 13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- **Recommendation:** Disposal must be made according to official regulations.

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· DOT, IMDG, IATA UN3265

· UN proper shipping name

• **DOT** Corrosive liquid, acidic, organic, n.o.s. (Alkyl ether amine, 2-

methylpentane-1,5-diamine)

· IMDG, IATA CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Alkyl ether

amine, 2-methylpentane-1.5-diamine)

- · Transport hazard class(es)
- · DOT



· Class 8 Corrosive substances

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Label	8
IMDG, IATA	
S S S S S S S S S S S S S S S S S S S	
Class	8 Corrosive substances
Label	8
Packing group DOT, IMDG, IATA	II
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Corrosive substances
Danger code (Kemler):	80
EMS Number:	F-A,S-B
Segregation groups	Acids
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	II of Not applicable.
Transport/Additional information:	
DOT	
<b>Quantity limitations</b>	On passenger aircraft/rail: 1 L
	On cargo aircraft only: 30 L
IMDG	
Limited quantities (LQ)	1L
<b>Excepted quantities (EQ)</b>	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation":	UN 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.
	(ALKYL ETHER AMINE, 2-METHYLPENTANE-1,
	DIAMINE), 8, II, (E)

## 15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture

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None of the ingredients is listed.

## · Section 313 (Specific toxic chemical listings):

· Section 355 (extremely hazardous substances):

1330-20-7 xylene

100-41-4 ethylbenzene

## · TSCA (Toxic Substances Control Act):

15520-10-2	2-methylpentane-1	1,5-diamine
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Propan-1,3-diamine, n-[3-tridecycloxy)propyl]-,branched (adogen 583)

90-72-2 2,4,6-tris(dimethylaminomethyl)phenol

64742-95-6 Solvent naphtha (petroleum), light arom.

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1330-20-7	xylene
78-83-1	butanol
100-41-4	ethylbenzene
D	(5

#### · Proposition 65

#### · Chemicals known to cause cancer:

100-41-4 ethylbenzene

#### · Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

#### · Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

### · Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

#### · Carcinogenic categories

· EPA (Env	ironmental Protection Agency)				
1330-20-7		I			
100-41-4	ethylbenzene	D			
· TLV (Thr	· TLV (Threshold Limit Value established by ACGIH)				
1330-20-7	xylene	A4			
100-41-4	ethylbenzene	A3			
NICOTIC (N. C. L. C. C. C. L. L. C. C. L.					

### · NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms





GHS05

GHS08

## · Signal word Danger

### · Hazard-determining components of labeling:

2-methylpentane-1,5-diamine

Solvent naphtha (petroleum), light arom.

Propan-1,3-diamine, n-[3-tridecycloxy)propyl]-,branched (adogen 583)

Bis(dimethylaminomethyl)phenol

## · Hazard statements

H227 Combustible liquid.

H314 Causes severe skin burns and eye damage.

H340 May cause genetic defects.

H350 May cause cancer.

#### · Precautionary statements

P210	Keep away from flames and hot surfaces. – No smoking.
P260	Do not breathe dusts or mists

P280 Wear protective gloves / eye protection / face protection.

P264 Wash thoroughly after handling. P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

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P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/

shower.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P321 Specific treatment (see on this label).

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P363 Wash contaminated clothing before reuse.

P308+P313 IF exposed or concerned: Get medical advice/attention. P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.

P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.

P405 Store locked up.

P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

#### · National regulations:

· Additional classification according to Decree on Hazardous Materials:

Carcinogenic hazardous material group III (dangerous).

#### · Information about limitation of use:

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing SDS:** Environment protection department.
- · Contact: Mr. Edward Poznysz, VP of Technologies: epoznysz@resindesigns.com
- · Date of preparation / last revision 10/15/2015 / -
- · Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 4: Flammable liquids, Hazard Category 4

Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1 Muta. 1B: Germ cell mutagenicity, Hazard Category 1B

Carc. 1B: Carcinogenicity, Hazard Category 1B

US.