

Safety Data Sheet acc. to OSHA HCS

Reviewed on 10/15/2015

1 Identification

- Product identifier
- Trade name: <u>AFW- 8000 PART A</u>
- Article number: AF8000WPTA
- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier:
- · AquaBond LLC
- · 6444 E Spring St #275
- · Long Beach, CA 90815
- \cdot 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



Skin Irrit. 2 H315 Causes skin irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

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



· Signal word Warning

· Hazard-determining components of labeling:

Epoxy phenol novolac resin

- · Hazard statements
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- · Precautionary statements
- P261 Avoid breathing dust/fume/gas/mist/vapors/spray
- P280 Wear protective gloves.
- P264 Wash thoroughly after handling.
- P272 Contaminated work clothing must not be allowed out of the workplace.
- P321 Specific treatment (see on this label).
- P363 Wash contaminated clothing before reuse.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P302+P352 IF ON SKIN: Wash with plenty of water.

P362+P364 Take off contaminated clothing and wash it before reuse.

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

(Contd. on page 2)

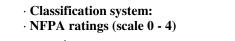
US



Reviewed on 10/15/2015

(Contd. of page 1)

Trade name: AFW- 8000 PART A



Health = 1 Fire = 1 Reactivity = 0

· HMIS-ratings (scale 0 - 4)

HEALTH1Health = 1FIRE1Fire = 1REACTIVITY0Reactivity = 0

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

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- \cdot **Description:** Mixture of the substances listed below with nonhazardous additions.
- · Dangerous components:

28064-14-4 Epoxy phenol novolac resin

50-100%

4 First-aid measures

- · Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- · After inhalation:
- Supply fresh air and to be sure call for a doctor.
- 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.
- After swallowing: If symptoms persist consult doctor.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- \cdot Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures Not required.

(Contd. on page 3)

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Printing date 10/15/2015

Safety Data Sheet acc. to OSHA HCS

Reviewed on 10/15/2015

(Contd. of page 2)

Trade name: AFW- 8000 PART A

- \cdot 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). 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. Prevent formation of aerosols.
- · Information about protection against explosions and fires: No special measures required.
- \cdot 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: None.
- 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.

Avoid contact with the skin.

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.



Aqua

Reviewed on 10/15/2015

Trade name: AFW- 8000 PART A

(Contd. of page 3)

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 \cdot 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.

• Eye protection: Goggles recommended during refilling.

9 Physical and chemical properties		
 Information on basic physical and chemical properties General Information Appearance: 		
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:	> 200 °C (> 392 °F)	
· Flash point:	151 °C (304 °F)	
· Flammability (solid, gaseous):	Not applicable.	
· Decomposition temperature:	Not determined.	
· Auto igniting:	Product is not selfigniting.	
· Danger of explosion:	Product does not present an explosion hazard.	
· Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
· 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/water): Not determined.		
· Viscosity:		
Dynamic:	Not determined.	
	Not determined.	

US



Printing date 10/15/2015

Reviewed on 10/15/2015

(Contd. of page 4)

Trade name: AFW- 8000 PART A

- · Solvent content:
- Organic solvents:
- · Other information

0.0 % 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.
- \cdot Possibility of hazardous reactions No dangerous reactions known.
- \cdot Conditions to avoid No further relevant information available.
- \cdot 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 values that are relevant for classification:

28064-14-4 Epoxy phenol novolac resin

Oral LD50 >2000 mg/kg (rabbit)

Dermal LD50 >2000 mg/kg (rabbit)

· Primary irritant effect:

- on the skin: Irritant to skin and mucous membranes.
- on the eye: No irritating effect.
- Sensitization: Sensitization possible through skin contact.
- · Additional toxicological information:

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

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

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.

(Contd. on page 6)

US



Aqua

Reviewed on 10/15/2015

(Contd. of page 5)

Trade name: AFW- 8000 PART A

· Additional ecological information:

· General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · 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.

· UN-Number · DOT, IATA · IMDG	not regulated UN3082
· UN proper shipping name · DOT, IATA · IMDG	not regulated ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID N.O.S. (Epoxy phenol novolac resin), MARINE POLLUTANT
· Transport hazard class(es)	
· DOT, IATA · Class	not regulated
· Class	9 Miscellaneous dangerous substances and articles
 Class Label Packing group 	9 Miscellaneous dangerous substances and articles 9
· Label	•
· Label · Packing group · DOT, IATA	9 not regulated
 Label Packing group DOT, IATA IMDG Environmental hazards: 	9 not regulated III Product contains environmentally hazardous substances: Epox phenol novolac resin



Safety Data Sheet acc. to OSHA HCS

Reviewed on 10/15/2015

Trade name: AFW- 8000 PART A

	(Contd. of page 6
· Transport/Additional information:	
· IMDG	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	not regulated

15 Regulatory information

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

- · Sara
- · Section 355 (extremely hazardous substances):
- None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

\cdot TSCA (Toxic Substances Control Act):

All ingredients are listed.

· Proposition 65

 \cdot Chemicals known to cause cancer:

None of the ingredients is listed.

· 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.

 \cdot Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

 \cdot 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**



· Signal word Warning

(Contd. on page 8)

Printing date 10/15/2015

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Trade name: AFW- 8000 PART A

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(Contd. of page 7)

	etermining components of labeling: nol novolac resin
mazaru su	atements
H315 Caus	es skin irritation.
	cause an allergic skin reaction.
	nary statements
P261	Avoid breathing dust/fume/gas/mist/vapors/spray
P280	Wear protective gloves.
P264	Wash thoroughly after handling.
P272	Contaminated work clothing must not be allowed out of the workplace.
P321	Specific treatment (see on this label).
P363	Wash contaminated clothing before reuse.
P333+P313	3 If skin irritation or rash occurs: Get medical advice/attention.
P302+P352	2 IF ON SKIN: Wash with plenty of water.
	4 Take off contaminated clothing and wash it before reuse.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
	safety assessment: A Chemical Safety Assessment has not been carried out.
16 Other in	formation
This inforn	nation is based on our present knowledge. However, this shall not constitute a guarantee for any specific
This inforn product fea	nation is based on our present knowledge. However, this shall not constitute a guarantee for any specific tures and shall not establish a legally valid contractual relationship.
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This inform product fea • Departmen • Contact: M • Date of pro-	nation is based on our present knowledge. However, this shall not constitute a guarantee for any specific tures and shall not establish a legally valid contractual relationship. nt issuing SDS: Environment protection department. <i>M</i> r. Edward Poznysz, VP of Technologies: epoznysz@resindesigns.com
This inform product fea • Departmen • Contact: M • Date of pr • Abbreviat ADR: Accord	hation is based on our present knowledge. However, this shall not constitute a guarantee for any specific stures and shall not establish a legally valid contractual relationship. Int issuing SDS: Environment protection department. Ar. Edward Poznysz, VP of Technologies: epoznysz@resindesigns.com eparation / last revision 10/15/2015 / - ions and acronyms: européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage
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1 Identification

- · Product identifier
- · Trade name: AFW- 8000 PART B
- · 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

Safety Data Sheet acc. to OSHA HCS



· 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.

(Contd. on page 2)

Printing date 10/15/2015

Aqua

Reviewed on 10/15/2015

Trade name: AFW- 8000 PART B

	(Contd. of page 1)
 Precautionary state 	atements
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	B If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/
	shower.
P305+P351+P338	B 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 sys	stem:

• NFPA ratings (scale 0 - 4)



· HMIS-ratings (scale 0 - 4)

HEALTH3Health = 3FIRE1Fire = 1REACTIVITY1Reactivity = 1

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

3 Composition/information on ingredients

· Chemical characterization: Mixtures

 \cdot **Description:** Mixture of the substances listed below with nonhazardous additions.

	· Dangerous components:		
15520-10-2 2-methylpentane-1,5-diamine 10-2		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%

(Contd. on page 3)

Printing date 10/15/2015

Reviewed on 10/15/2015

Trade name: AFW- 8000 PART B

(Contd. of page 2)

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.

(Contd. on page 4)

US

Printing date 10/15/2015

Reviewed on 10/15/2015

Trade name: AFW- 8000 PART B

 \cdot 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.

(Contd. on page 5)

US

(Contd. of page 3)

Printing date 10/15/2015

Trade name: AFW- 8000 PART B

Aqua Boi

· Eye protection:



Tightly sealed goggles

9 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
	(Contd. on pa

Reviewed on 10/15/2015

(Contd. of page 4)



Aaua

Reviewed on 10/15/2015

Trade name: AFW- 8000 PART B

(Contd. of page 5)

· 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 values that are relevant for classification:

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.
- 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	
100-41-4	ethylbenzene	2B	
· NTP (Nati	onal Toxicology Program)		
None of the	e ingredients is listed.		
· OSHA-Ca	(Occupational Safety & Health Administration)		
None of the	e ingredients is listed.		
		US	

(Contd. on page 7)

(Contd. of page 6)



Printing date 10/15/2015

Aaua

Reviewed on 10/15/2015

Trade name: AFW- 8000 PART B

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.

· UN-Number · DOT, IMDG, IATA	UN3265
· UN proper shipping name · DOT	Corrosive liquid, acidic, organic, n.o.s. (Alkyl ether amine, methylpentane-1,5-diamine)
· IMDG, IATA	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Alkyl eth amine, 2-methylpentane-1.5-diamine)
· Transport hazard class(es)	
DOT	
CORROSIVE 8	
Class	8 Corrosive substances



Reviewed on 10/15/2015

Trade name: AFW- 8000 PART B

	(Contd. of page
· Label	8
· IMDG, IATA	
AF 22	
· Class	8 Corrosive substances
· Label	8
· Packing group · DOT, IMDG, IATA	П
· 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 1	
MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· DOT	
• Quantity limitations	On passenger aircraft/rail: 1 L
	On cargo aircraft only: 30 L
· IMDG	
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	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)

Safety Data Sheet acc. to OSHA HCS

15 Regulatory information

 \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture \cdot Sara

None of the ingredients is listed. · Section 313 (Specific toxic chemical listings): 1330-20-7 xylene 100-41-4 ethylbenzene · TSCA (Tox: Substances Control Act): 15520-10-2 2-methylpentane-1,5-diamine 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.	· Section 355	(extremely hazardous substances):	
1330-20-7xylene100-41-4ethylbenzene• TSCA (Toxic Substances Control Act):15520-10-22-methylpentane-1,5-diaminePropan-1,3-diamine, n-[3-tridecycloxy)propyl]-,branched (adogen 583)90-72-22,4,6-tris(dimethylaminomethyl)phenol64742-95-6Solvent naphtha (petroleum), light arom.	None of the	ingredients is listed.	
100-41-4ethylbenzene• TSCA (Toxic Substances Control Act):15520-10-22-methylpentane-1,5-diaminePropan-1,3-diamine, n-[3-tridecycloxy)propyl]-,branched (adogen 583)90-72-22,4,6-tris(dimethylaminomethyl)phenol64742-95-6Solvent naphtha (petroleum), light arom.	· Section 313	(Specific toxic chemical listings):	
• TSCA (Toxic Substances Control Act):15520-10-22-methylpentane-1,5-diaminePropan-1,3-diamine, n-[3-tridecycloxy)propyl]-,branched (adogen 583)90-72-22,4,6-tris(dimethylaminomethyl)phenol64742-95-6Solvent naphtha (petroleum), light arom.	1330-20-7	xylene	
15520-10-22-methylpentane-1,5-diaminePropan-1,3-diamine, n-[3-tridecycloxy)propyl]-,branched (adogen 583)90-72-22,4,6-tris(dimethylaminomethyl)phenol64742-95-6Solvent naphtha (petroleum), light arom.	100-41-4 ethylbenzene		
Propan-1,3-diamine, n-[3-tridecycloxy)propyl]-,branched (adogen 583)90-72-22,4,6-tris(dimethylaminomethyl)phenol64742-95-6Solvent naphtha (petroleum), light arom.	· TSCA (Tox	ic Substances Control Act):	
90-72-22,4,6-tris(dimethylaminomethyl)phenol64742-95-6Solvent naphtha (petroleum), light arom.	15520-10-2	2-methylpentane-1,5-diamine	
64742-95-6 Solvent naphtha (petroleum), light arom.		Propan-1,3-diamine, n-[3-tridecycloxy)propyl]-,branched (adogen 583)	
	90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	
(Contd. on page	64742-95-6	Solvent naphtha (petroleum), light arom.	
			(Contd. on page 9)



Printing date 10/15/2015

Reviewed on 10/15/2015

Trade name: AFW- 8000 PART B

1330-20-7	xvlene		(Contd. of page 8)
78-83-1	•		
	ethylbenzene		
· Proposition	•		
-	known to cause cancer:		
100-41-4 e			
	known to cause reproductive to	xicity for females:	
	ingredients is listed.	newy for terminest	
	known to cause reproductive to:	vicity for malos:	
	ingredients is listed.	xicity for males.	
	known to cause developmental t ingredients is listed.	oxicity:	
None of the	Ingredients is listed.		
-	ic categories		
· EPA (Envi	conmental Protection Agency)		
1330-20-7	-		Ι
100-41-4	ethylbenzene		D
· TLV (Thre	shold Limit Value established b	y ACGIH)	
1330-20-7	xylene		A4
100-41-4	ethylbenzene		A3
· NIOSH-Ca	(National Institute for Occupat	tional Safety and Health)	
	ingredients is listed.		
· GHS label	elements The product is classified	l and labeled according to the Globally Har	monized System (GHS).
• Hazard pic	tograms		
\wedge			
GHS05	GHS08		
· Signal wor	Danger		
C	0		
	ermining components of labelin tane-1,5-diamine	lg:	
	tha (petroleum), light arom.		
Propan-1,3-	diamine, n-[3-tridecycloxy)propy	l]-,branched (adogen 583)	
	laminomethyl)phenol		
· Hazard sta	tements ustible liquid.		
	s severe skin burns and eye dama	σe	
	ause genetic defects.	80.	
	ause cancer.		
	ary statements		
P210		id hot surfaces. – No smoking.	
P260	Do not breathe dusts or mi		
P280 P264	Wear protective gloves / e Wash thoroughly after han	ye protection / face protection.	
P204 P201	Obtain special instructions		
P202		ety precautions have been read and understo	ood.
			(Contd. on page 10)

US

Aqua Bond

Safety Data Sheet acc. to OSHA HCS

Printing date 10/15/2015

Reviewed on 10/15/2015

Trade name: AFW- 8000 PART B

	(Contd. of page 9)
P303+P361+P35	3 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/
	shower.
P305+P351+P33	8 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+P33	1 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