

Prepared according to 29 CFR 1910.1200

Date prepared: **DECEMBER 2007**
Date revised: **MARCH 2008**

Page 1 of 2
MSDS No 5.1.2.A1

Section I - Identification

As Used on Label: **VAPORTIGHT COAT[®]-SG2/VO & ASODUR-SG2-thix "A-COMPONENT"**

Chemical Characterization: EPOXY RESIN (IRRITANT)

- HMIS -		Hazard Rating: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Extreme * = Chronic
HEALTH	2	
FLAMMABILITY	1	
REACTIVITY	0	
PERSONAL PROTECTION	C	

AQUAFIN, INC.
BLUE BALL RD. #160
ELKTON, MD 21921

24 hr Emergency Phone: Chem-Tel **(800) 255-3924**
Information Phone No: **(410) 392-2300**

Section II - Hazardous Ingredients/Identity Information

HAZARDOUS COMPONENTS	CAS NUMBER	OSHA PEL	ACGIH TLV	WEIGHT %
Bisphenol-A Epichlorhydrin	25068-38-6	Not Estab.	Not Estab.	25-50%
1,6-Hexandioldiglycidylether	16096-31-4	Not Estab.	Not Estab.	10-25%

Section III - Physical/Chemical Characteristics

Boiling Point:	>200°C (>392°F)	Specific Gravity: (BULK DENSITY)	2.11 g/cm ³
Vapor Pressure (mm Hg.):	0.1 hPa	Melting Point:	Not Determined
Vapor Density (AIR = 1):	N.A.	Evaporation Rate (Butyl Acetate = 1):	N.A.
Solubility in Water:	Not Miscible	Viscosity (dynamic):	140 mPas at 20°C (68° F)
Appearance and Odor:	LIGHT GRAY LIQUID – WEAK, CHARACTERISTIC ODOR <i>Note: Mix in a well ventilated area or when feasible, outdoors. Odor normally disappears within 24 hours after mixing with B-Component (hardener).</i>		

Section IV - Fire and Explosion Hazard Data

Flash Point (Method used):	>100° C (>212 ° F)	Flammable Limits:	460°C (860°F)	LEL:	N/A	UEL:	N/A
Extinguishing Media:	CO₂, EXTINGUISHING POWDER OR WATER JET. FIGHT LARGER FIRES WITH WATER JET.						
Special Fire Fighting Procedures:	FORMATION OF POISONOUS GASES DURING HEATING OR IN FIRES. WEAR SELF CONTAINED BREATHING APPARATUS.						
Unusual Fire and Explosion Hazards:	IN CASE OF STRONG HEAT, BURST AND EXPLOSION HAZARD.						

Section V - Reactivity Data

Stability: Unstable:	Stable: X	Conditions to Avoid: NONE
Incompatibility (Materials to Avoid):	STRONG OXIDIZING AGENTS	
Hazardous Decomposition or Byproducts:	CARBON MONOXIDE, ALDEHYDES	
Hazardous Polymerization: May Occur:	Will Not Occur: X	Conditions to Avoid:

Section VI - Health Hazard Data

Route(s) of Entry:	Inhalation?: N/A	Skin?: X	Ingestion?: X
Health Hazards (Acute and Chronic):	LONG TERM EXPOSURE CAN CAUSE IRRITATIONS TO THE SKIN AND MUCOUS MEMBRANES.		
Carcinogenicity: N/A	NTP?: -NO	IARC Monographs?: -NO	OSHA Regulated?: -NO
Signs and Symptoms of Exposure:	OVEREXPOSURE CAN LEAD TO CNS DEPRESSION, KIDNEY AND LIVER CHANGES, AND POSSIBLE ALLERGIC SKIN REACTIONS.		

Medical Conditions - Generally Aggravated by Exposure: **ALLERGY, ECZEMA, OR SKIN CONDITIONS**

Emergency and First Aid Procedures:

SKIN: **AFTER CONTACT WITH SKIN, WASH IMMEDIATELY WITH SOAP & PLENTY OF WATER. REMOVE HEAVILY SOILED CLOTHING.**

EYES: **IN CASE OF CONTACT WITH THE EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER (10 - 15 MIN.) AND CONSULT A PHYSICIAN.**

INGESTION: **DO NOT INDUCE VOMITTING. RINSE MOUTH AND DRINK PLENTY OF WATER IN SMALL SIPS. CONSULT IMMEDIATELY A PHYSICIAN.**

INHALATION: **MOVE TO FRESH AIR IF FEELING ILL OR EXPERIENCING TROUBLE WITH BREATHING. CONSULT PHYSICIAN IF PROBLEMS PERSIST.**

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material Is Released or Spilled:

CONTAIN AND COLLECT SPILLAGE WITH NON-COMBUSTIBLE, ABSORBENT MATERIALS, I.E. SAND, EARTH, VERMICULITE, DIATOMACEOUS EARTH, UNIVERSAL BINDERS, SAWDUST, AND PLACE IN CONTAINER FOR DISPOSAL. EMERGENCY PROCEDURES ARE NOT REQUIRED.

Waste Disposal Method: **DISPOSE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.**

Ecological Information: **DO NOT ALLOW PRODUCT TO REACH GROUND WATER, BODIES OF WATER, OR SEWAGE SYSTEMS.**

Precautions to Be Taken in Handling and Storing:

AVOID CONTACT WITH SKIN AND EYES. OBSERVE NORMAL PRECAUTIONS WHEN HANDLING WITH CHEMICALS.

Other Precautions: **NONE - NO DANGEROUS MATERIALS ARE RELEASED. STORE CONTAINERS TIGHTLY CLOSED IN A COOL (FROST FREE), WELL VENTILATED PLACE.**

Section VIII - Control Measures

Respiratory Protection (*Specify Type*): **NONE, BUT AVOID BREATHING VAPORS IF POSSIBLE.**

Ventilation: Local Exhaust: **PROVIDE GOOD VENTILATION.** Special: **NONE**
Mechanical (*General*): **RECOMMENDED** Other: **NONE**

Protective Gloves: **RUBBER OR NEOPRENE** Eye Protection: **SAFETY GOGGLES**

Other Protective Clothing or Equipment: **STANDARD WORK CLOTHING**

Work/Hygienic Practices: **WASH HANDS BEFORE BREAKS AND AFTER WORK, AND BEFORE EATING, DRINKING OR SMOKING.**

Section IX - Shipping Information

DOT (Surface & Air): **NOT REGULATED per 49CFR 171.4(c) (Marine pollutant)**
IMO (Ocean): **Environmentally hazardous substances, liquid, NOS, 9, UN 3082, PG III**
IATA (Air): **Environmentally hazardous substances, liquid, NOS, 9, UN 3082, PG III**

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind, expressed or implied, and we assume no responsibility for any loss, damage, expense, direct or consequential, arising from their use.

END OF MSDS

(MARCH 21, 2008)

Prepared according to 29 CFR 1910.1200

 Date prepared: **DECEMBER 2007**
 Date revised: **MARCH 2008**

 Page 1 of 2
 MSDS No 5.1.2.B1

Section I – Identification

 As Used on Label: **VAPORTIGHT COAT®-SG2/VO & ASODUR-SG2-thix “B-COMPONENT”**

 Chemical Characterization: **EPOXY HARDENER (CORROSIVE)**

- HMIS -		Hazard Rating: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Extreme * = Chronic
HEALTH	3	
FLAMMABILITY	1	
REACTIVITY	0	
PERSONAL PROTECTION	C	

 AQUAFIN, INC.
 BLUE BALL RD NO. 160
 ELKTON, MD 21921

 24 hr Emergency Phone: Chem-Tel **(800) 255-3924**
 Information Phone No: **(410) 392-2300**
Section II - Hazardous Ingredients/Identity Information

HAZARDOUS COMPONENTS	CAS NUMBER	OSHA PEL	ACGIH TLV	WEIGHT %
Isophoronediamine (3-aminomethyl-3,5,5-trimethylcyclohexylamine)	2855-13-2	N/A	N/A	50-100%
2,4,6-Tris-(dimethylaminomethyl)phenol	90-72-2	N/A	N/A	2.5-10%

Section III - Physical/Chemical Characteristics

Boiling Point:	>200°C (392°F)	Specific Gravity: (BULK DENSITY)	0.93 g/cm³
Vapor Pressure (mm Hg.):	0 hPa	Melting Point:	Not Determined
Vapor Density (AIR = 1):	N.A.	Evaporation Rate (Butyl Acetate = 1):	N.A.
Solubility in Water:	Miscible	Solids Content:	18%
Appearance and Odor:	YELLOWISH LIQUID – CHARACTERISTIC ODOR (AMINE LIKE)		
	<i>Note: Mix in a well ventilated area or when feasible, outdoors. Odor diminishes significantly when mixed with resin (A-Component) and smells like paint. Odor normally disappears within 24 hours.</i>		

Section IV - Fire and Explosion Hazard Data

Flash Point (Method used):	100°C (212°F)	Flammability Limits :	380°C (716°F)	LEL: N/A	UEL: N/A
PRODUCT IS NOT SELF-IGNITING AND NOT EXPLOSIVE.					
Extinguishing Media:	CO₂, EXTINGUISHING POWDER OR WATER JET.				
Special Fire Fighting Procedures:	WEAR POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS WITH FULL-FACE PIECE AND FULL PROTECTIVE CLOTHING.				
Unusual Fire and Explosion Hazards:	DECOMPOSITION AND COMBUSTION PRODUCTS MAY BE TOXIC. TOXIC FUMES MAY BE RELEASED IN FIRE OR EXTREME HEAT SITUATIONS. BURST AND EXPLOSION DANGER BY INCREASING PRESSURE.				

Section V - Reactivity Data

Stability: Unstable:	Stable: X	Conditions to Avoid: HEAT, SPARKS, OPEN FLAME
Incompatibility (Materials to Avoid):	STRONG OXIDIZING AGENTS	
Hazardous Decomposition or Byproducts:	CARBON MONOXIDE, CARBON DIOXIDE, HYDROCARBON FRAGMENTS	
Hazardous Polymerization: May Occur:	Will Not Occur: X	Conditions to Avoid:

Section VI - Health Hazard Data

Route(s) of Entry:	Inhalation?: X	Skin?: X	Ingestion?: X
Health Hazards (Acute and Chronic):	CORROSIVE. CAN BE CORROSIVE TO SKIN. CAN CAUSE RESPIRATORY TRACT IRRITATION, EYE DAMAGE, GASTROINTESTINAL TRACT DAMAGE. CAN CAUSE NERVOUS SYSTEM EFFECTS AND SKIN SENSITIZATION.		
Carcinogenicity: N/A	NTP?: -NO	IARC Monographs?: -NO	OSHA Regulated?: -NO

"B-COMPONENT" (EPOXY HARDENER) - CORROSIVE

Signs and Symptoms of Exposure: **OVEREXPOSURE CAN LEAD TO CNS DEPRESSION, KIDNEY AND LIVER CHANGES, AND POSSIBLE ALLERGIC SKIN REACTIONS.**

Medical Conditions - Generally Aggravated by Exposure: **ALLERGY, ECZEMA, OR SKIN CONDITIONS.**

Emergency and First Aid Procedures:

SKIN: **AFTER CONTACT WITH SKIN, WASH IMMEDIATELY WITH SOAP & PLENTY OF WATER. DO NOT USE THINNER OR SOLVENTS FOR REMOVAL. REMOVE HEAVILY SOILED CLOTHING.**

EYES: **IN CASE OF CONTACT WITH THE EYES, RINSE EYES THROUGH OPEN EYE LIDS IMMEDIATELY WITH PLENTY OF WATER (MINIMUM 15 MIN.) AND CONSULT A PHYSICIAN.**

INGESTION: **RINSE MOUTH AND DRINK PLENTY OF WATER IN SMALL SIPS. DO NOT INDUCE VOMITING. DO NOT DRINK MILK, ALCOHOL, OIL, ETC. CONSULT IMMEDIATELY A PHYSICIAN.**

INHALATION: **MOVE TO FRESH AIR IF FEELING ILL OR EXPERIENCING TROUBLE WITH BREATHING. CONSULT PHYSICIAN IF PROBLEMS PERSIST.**

NOTE: **ADVERSE REACTIONS MAY TAKE SEVERAL HOURS TO APPEAR. MEDICAL OBSERVATION SHOULD LAST AT LEAST 48 HRS AFTER ANY OF THE ABOVE INCIDENTS.**

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material Is Released or Spilled:

REMOVE ALL SOURCES OF IGNITION. CONTAIN AND COLLECT SPILLAGE WITH NON-COMBUSTIBLE, ABSORBENT MATERIALS, I.E. SAND, EARTH, VERMICULITE, DIATOMACEOUS EARTH, UNIVERSAL BINDERS, SAWDUST, AND PLACE IN CONTAINER FOR DISPOSAL. EMERGENCY PROCEDURES ARE NOT REQUIRED.

Waste Disposal Method: **DISPOSE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.**

Ecological Information: **DO NOT ALLOW PRODUCT TO REACH GROUND WATER, BODIES OF WATER, OR SEWAGE SYSTEMS.**

Precautions to Be Taken in Handling and Storing:

AVOID CONTACT WITH SKIN AND EYES. OBSERVE NORMAL PRECAUTIONS WHEN HANDLING WITH CHEMICALS. DO NOT SMOKE.

Other Precautions: **STORE CONTAINERS TIGHTLY CLOSED IN A COOL (FROST FREE), WELL VENTILATED PLACE. KEEP OUT OF REACH OF CHILDREN.**

Section VIII - Control Measures

Respiratory Protection (*Specify Type*): **USE MSHA/NIOSH APPROVED RESPIRATOR IN POORLY VENTILATED AREAS**

Ventilation: Local Exhaust: **PROVIDE GOOD VENTILATION.** Special: **NONE**
Mechanical (*General*): **RECOMMENDED** Other: **NONE**

Protective Gloves: **RUBBER OR NEOPRENE (SOLVENT RESISTANT)** Eye Protection: **SAFETY GOGGLES**

Other Protective Clothing or Equipment: **STANDARD WORK CLOTHING**

Work/Hygienic Practices: **WASH HANDS BEFORE BREAKS AND AFTER WORK, AND BEFORE EATING, DRINKING OR SMOKING.**

Section IX - Shipping Information

DOT (Surface & Air): **Amines, liquid, corrosive, NOS, 8, UN 2735, PG III**

IMO (Ocean): **Amines, liquid, corrosive, NOS, 8, UN 2735, PG III**

IATA (Air): **Amines, liquid, corrosive, NOS, 8, UN 2735, PG III**

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind, expressed or implied, and we assume no responsibility for any loss, damage, expense, direct or consequential, arising from their use.

END OF MSDS

(MARCH 21, 2008)