

# Material Safety Data Sheet

## BW-6000

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

<b>Product name</b>	BW-6000
<b>Product use</b>	Oxygen Scavenger Corrosion Inhibitor
<b>Manufacturer</b>	Athlon Solutions, LLC. PO Box 27727 Houston, TX 77227-7727 USA
<b>Telephone</b>	1-713-457-2400
<b>In case of emergency</b>	1-800-424-9300 (CHEMTREC) 1-703-527-3887 (Outside U.S. - Call Collect)

### SECTION 2. HAZARDS IDENTIFICATION

#### Emergency Overview

<b>Signal Word</b>	<b>Warning</b>
<b>Hazard Summary</b>	Irritant. May cause sensitization by skin contact. Contains material which may cause cancer. Combustible liquid.
<b>Physical state</b>	liquid
<b>Color</b>	Clear. yellow.
<b>Odor</b>	Mild amine.
<b>Primary Routes of Entry</b>	Inhalation. Skin.

#### Potential Health Effects

<b>Inhalation</b>	No known significant effects or critical hazards.
<b>Skin</b>	May cause allergic skin reaction.
<b>Eyes</b>	Causes eye irritation.
<b>Ingestion</b>	No known significant effects or critical hazards.
<b>Chronic Exposure</b>	Suspected of causing genetic defects. May cause cancer.
<b>Medical conditions aggravated by over-exposure</b>	Skin disorders

#### Environmental hazards

<b>Environmental effects</b>	No known significant effects or critical hazards.
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See toxicological information (section 11)

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Hazardous ingredients

<u>Name</u>	<u>CAS no.</u>	<u>Weight %</u>
Ethanamine, N-Ethyl-N-Hydroxy-	3710-84-7	10 - 30
Hydroquinone	123-31-9	1 - 5

#### SECTION 4. FIRST AID MEASURES

<b>General advice</b>	If you feel unwell, seek medical advice (show the label when possible). No action shall be taken involving any personal risk or without suitable training.
<b>Inhalation</b>	Move exposed person to fresh air.
<b>Skin contact</b>	Take off contaminated clothing and shoes immediately. Flush contaminated skin with plenty of water. If symptoms persist, call a physician.
<b>Eye contact</b>	Immediately flush eye(s) with plenty of water. Remove contact lenses. Keep eye wide open while rinsing. Protect unharmed eye. If eye irritation persists, consult a specialist.
<b>Ingestion</b>	Rinse mouth with water. Drink plenty of water. Never give anything by mouth to an unconscious person.
<b>Notes to physician</b>	No information available.

#### SECTION 5. FIRE-FIGHTING MEASURES

<b>Fire Hazard</b>	Flammable or combustible, may be ignited by heat, sparks or flames. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.
<b>Flash point</b>	176 °F (80.0 °C) closed cup
<b>Autoignition temperature</b>	Not available.
<b>Flammable limits</b>	Lower: Not available. Upper: Not available.
<b><u>Extinguishing media</u></b>	
<b>Suitable</b>	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
<b>Hazardous combustion products</b>	Carbon oxides. nitrogen oxides
<b>Special protective equipment for fire-fighters</b>	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
<b>Further information</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
<b>Explosion hazard</b>	Risk of explosion of the product in the presence of mechanical impact: Not available.  Risk of explosion of the product in the presence of static discharge: Not available.

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions</b>	Shut off all ignition sources. Ensure adequate ventilation. Avoid breathing vapor or mist. Do not touch or walk through spilled material. Put on appropriate personal protective equipment (see section 8).
<b>Environmental precautions</b>	Avoid contact of spilled material with soil and prevent runoff entering surface waterways.
<b>Methods for cleaning up</b>	For large spills, dike spilled material or otherwise contain it to ensure runoff does not reach a waterway. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal.

## SECTION 7. HANDLING AND STORAGE

<b>Handling</b>	Eliminate all ignition sources. Use only with adequate ventilation. Put on appropriate personal protective equipment (see section 8). Do not get in eyes or on skin or clothing. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Open drum carefully as content may be under pressure. Do not enter storage areas and confined spaces unless adequately ventilated. Workers should wash hands and face before eating, drinking and smoking.
<b>Storage</b>	Keep container closed when not in use. Keep container in a well-ventilated area. Separate from oxidizing materials.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Personal Protection

<b>Hand protection</b>	Impervious butyl rubber gloves. Nitrile rubber. Neoprene gloves. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
<b>Eye protection</b>	Safety goggles.
<b>Skin and body protection</b>	Wear as appropriate: Chemical-resistant apron. Long sleeved clothing. Footwear protecting against chemicals.
<b>Respiratory protection</b>	In the case of vapor formation use a respirator with an approved filter.

### Occupational Exposure Limits

<u>Component</u>	<u>Source</u>	<u>Type</u>	<u>PPM</u>	<u>MG/M3</u>	<u>Note</u>
Hydroquinone	ACGIH	TWA		1 mg/m3	
	NIOSH REL	C		2 mg/m3	
	OSHA Z-1	TWA		2 mg/m3	

### Immediately Dangerous to Life or Health Concentrations (IDLH)

<u>Substance name</u>	<u>CAS-No.</u>	<u>Control parameters</u>
Hydroquinone	123-31-9	50 mg/m3

<b>Engineering measures</b>	If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
<b>Hygiene measures</b>	Handle in accordance with good industrial hygiene and safety practice. Use only with adequate ventilation. Avoid contact with skin, eyes and clothing. Remove contaminated clothing and protective equipment before entering eating areas. Wash hands before breaks and immediately after handling the product.
<b>Protective measures</b>	Emergency baths, showers, or other equipment appropriate for the potential level of exposure should be located close to the workstation location. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state</b>	liquid
<b>Color</b>	Clear. yellow.
<b>Odor</b>	Mild amine.

<b>Odor Threshold</b>	Not available.
<b>Melting/freezing point</b>	Not available.
<b>Pour point</b>	-20 °F (-28.9 °C)
<b>Boiling/condensation point</b>	Not available.
<b>Flash point</b>	176 °F (80.0 °C) closed cup
<b>pH</b>	8 - 10
<b>Solubility</b>	Water
<b>Relative density</b>	0.9216 - 1.0519 at 68 °F (20.0 °C)
<b>Vapor pressure</b>	Not available.
<b>Evaporation rate</b>	Not available.
<b>Viscosity</b>	4.5 cPs
<b>Partition coefficient: n-octanol/water</b>	Not available.

Note: Typical values only - not to be interpreted as sales specifications

#### SECTION 10. STABILITY AND REACTIVITY

<b>Chemical stability</b>	Stable under normal conditions.
<b>Conditions to avoid</b>	Heat, flames and sparks. Oxidizing agents
<b>Materials to avoid</b>	Strong oxidizing agents. Strong acids. Strong bases.
<b>Hazardous decomposition products</b>	Carbon oxides. nitrogen oxides (NOx). Ammonia. Amines.
<b>Hazardous reactions</b>	No dangerous reaction known under conditions of normal use.

#### SECTION 11. TOXICOLOGICAL INFORMATION

##### Acute toxicity

<u>Substance</u>	<u>Test</u>	<u>Species</u>	<u>Dose</u>	<u>Classification</u>
Hydroquinone	LD50 Oral	rabbit	200 mg/kg	not applicable
	LD50 Oral	mouse	245 mg/kg	not applicable
	LD50 Oral	rat	302 mg/kg	not applicable
	LD50 Oral	guinea pig	550 mg/kg	not applicable

##### Irritation/Corrosion

No data is available on the product itself.

##### Sensitization

No data is available on the product itself.

##### Chronic toxicity

No data is available on the product itself.

##### Target organ effects

No data is available on the product itself.

##### Carcinogenicity

No data is available on the product itself.

<u>Regulation</u>	<u>Rating</u>	<u>Component</u>
NTP	-	-

IARC	-	-
OSHA	-	-
ACGIH	A3	Hydroquinone

**Mutagenicity**

No data is available on the product itself.

**Teratogenicity**

No data is available on the product itself.

**Reproductive toxicity**

No data is available on the product itself.

**SECTION 12. ECOLOGICAL INFORMATION**

**Environmental effects** No known significant effects or critical hazards.

**Aquatic ecotoxicity**

No data is available on the product itself.

**Biodegradation**

No data is available on the product itself.

**Bioaccumulation**

No data is available on the product itself.

**Octanol/water partition coefficient (LogPow)** Not available.

**SECTION 13. DISPOSAL CONSIDERATIONS**

**Waste disposal** Dispose of wastes in an approved waste disposal facility. Empty containers or liners may retain some product residues. If recycling is not practicable, dispose of in compliance with local regulations.

**Contaminated packaging** Dispose of as unused product.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

**SECTION 14. TRANSPORT INFORMATION**

**DOT**

NA Number:	1993
Description of the goods	Combustible liquid, n.o.s.(Diethylhydroxylamine)
Class	CBL
Packing group	III
Emergency Response	128
Guidebook Number	
Environmentally hazardous	yes (Diethylhydroxylamine)

**Note: Product is not classified as a dangerous good in non-bulk packaging (<= 450 liters/119 US gallons).**

**TDG**

Not dangerous goods

**IATA**

Not dangerous goods

**IMDG**

Not dangerous goods

**SECTION 15. REGULATORY INFORMATION**

**U.S. Federal regulations**

**CERCLA: Hazardous substances - Reportable quantity:**

<u>Substance</u>	<u>Reportable quantity</u>
Hydroquinone	100 lbs

<u>Product</u>	<u>Reportable quantity</u>	<u>Substance</u>
5000 lbs		Hydroquinone

Product spills equal to or exceeding the threshold above trigger the reporting requirements under CERCLA for the listed hazardous substance. Report the spill or release to the National Response Center (NRC) at (800) 424-8802.

**SARA 311/312 MSDS distribution - chemical inventory - hazard identification:**

- Fire Hazard
- Acute Health Hazard
- Chronic Health Hazard

**SARA 313 - Supplier notification**

<u>Component</u>	<u>CAS no.</u>	<u>Weight %</u>
Hydroquinone	123-31-9	1 - 5

**Clean Water Act (CWA) 307:** None of the components are listed.

**Clean Water Act (CWA) 311:** None of the components are listed.

**Clean Air Act (CAA) 112 accidental release prevention:** None of the components are listed.

**State regulations**

**Massachusetts Substances:** The following components are listed: Hydroquinone

**Pennsylvania RTK Hazardous Substances:** The following components are listed: Hydroquinone

**New Jersey Hazardous Substances:** The following components are listed: Hydroquinone

**California Prop. 65:**

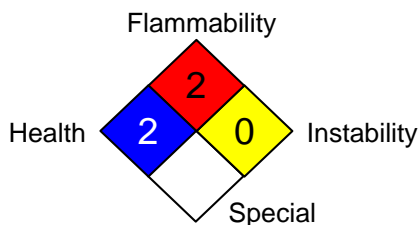
This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

**International regulations**

- United States inventory (TSCA 8b):** On TSCA Inventory
- Canada inventory (DSL):** All components of this product are on the Canadian DSL list.
- Australia inventory (AICS)** On the inventory, or in compliance with the inventory

**SECTION 16. OTHER INFORMATION**

**National Fire Protection Association (U.S.A.):**



<b>Prepared by</b>	Product Stewardship (1-713-457-2400)
<b>Date of issue</b>	07/30/2013
<b>Date of previous issue</b>	00/00/0000
<b>Version</b>	1.0

**Disclaimer**

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the

information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.