

Material Safety Data Sheet

BW-8095

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	BW-8095
Product use	Corrosion Inhibitor
Manufacturer	Athlon Solutions LLC. P.O. Box 27727 Houston, TX, 77227-7727 USA
Telephone	1-713-457-2400
In case of emergency	1-800-424-9300 (CHEMTREC) 1-703-527-3887 (Outside U.S. - Call Collect)

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Signal Word	Danger
Hazard Summary	Flammable. Corrosive. Harmful. May cause sensitization by skin contact.
Physical state	liquid
Color	Light Amber.
Odor	amine.
Primary Routes of Entry	Inhalation. Skin.

Potential Health Effects

Inhalation	May cause respiratory tract irritation. Vapors, spray or mists may be very irritating or corrosive to the respiratory system.
Skin	May cause allergic skin reaction. Causes skin burns. May cause allergic skin reaction.
Eyes	Causes eye burns. May cause permanent eye injury.
Ingestion	Harmful if swallowed. Causes digestive tract burns.
Chronic Exposure	Suspected of damaging fertility.
Medical conditions aggravated by over-exposure	Asthma Skin disorders

Environmental hazards

Environmental effects No known significant effects or critical hazards.

See toxicological information (section 11)

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous ingredients

<u>Name</u>	<u>CAS no.</u>	<u>Weight %</u>
Cyclohexylamine	108-91-8	30 - 60
3-Methoxypropylamine	5332-73-0	10 - 30

Ethanamine, N-Ethyl-N-Hydroxy-

3710-84-7

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SECTION 4. FIRST AID MEASURES

General advice	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.
Inhalation	Move exposed person to fresh air. Call a physician or poison control center immediately. If unconscious place in recovery position and seek medical advice. Keep respiratory tract clear.
Skin contact	Take off contaminated clothing and shoes immediately. Get medical attention immediately.
Eye contact	In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Remove contact lenses. Continue rinsing eyes during transport to hospital. Keep eye wide open while rinsing. Protect unharmed eye.
Ingestion	Rinse mouth with water. Drink plenty of water. Call a physician or poison control center immediately. Take victim immediately to hospital. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.
Notes to physician	No information available.

SECTION 5. FIRE-FIGHTING MEASURES

Fire Hazard	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.
Flash point	116 °F (46.7 °C) closed cup
Autoignition temperature	Not available.
Flammable limits	Lower: Not available. Upper: Not available.
<u>Extinguishing media</u>	
Suitable	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Hazardous combustion products	nitrogen oxides (NOx). Carbon oxides.
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Fire-fighters' protective clothing will only provide limited protection.
Further information	Use water spray to cool unopened containers. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Explosion hazard	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

Personal precautions	Shut off all ignition sources. Ensure adequate ventilation. Avoid breathing vapor or mist. Do not touch or walk through spilled material. Keep people away from and upwind of spill/leak. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).
Environmental precautions	Avoid contact of spilled material with soil and prevent runoff entering surface waterways.
Methods for cleaning up	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

Handling	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.
Storage	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

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

Occupational Exposure Limits

<u>Component</u>	<u>Source</u>	<u>Type</u>	<u>PPM</u>	<u>MG/M3</u>	<u>Note</u>
Cyclohexylamine	ACGIH	TWA	10 ppm		
	NIOSH REL	TWA	10 ppm	40 mg/m3	

Engineering measures	Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Hygiene measures	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.
Protective measures	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

Physical state	liquid
Color	Light Amber.

Odor	amine.
Odor Threshold	Not available.
Melting/freezing point	Not available.
Pour point	Not available.
Boiling/condensation point	Not available.
Flash point	116 °F (46.7 °C) closed cup
pH	9 - 13
Solubility	Not available.
Relative density	0.9 - 1.1
Vapor pressure	Not available.
Evaporation rate	Not available.
Viscosity	Not available.
Partition coefficient: n-octanol/water	Not available.

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

SECTION 10. STABILITY AND REACTIVITY

Chemical stability	Stable under normal conditions.
Conditions to avoid	Heat, flames and sparks.
Materials to avoid	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.
Hazardous reactions	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>
Cyclohexylamine	LD50 Oral	rat	11 mg/kg	not applicable
	LD50 Oral	mouse	224 mg/kg	not applicable
	LC50 Inhalation	rat	7,500 mg/m ³	not applicable
3-Methoxypropylamine	LD50 Oral	rat	6,260 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.

None of the components are listed.

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

<u>Substance</u>	<u>Species</u>	<u>Exposure</u>	<u>Value</u> <u>type</u>	<u>Value</u>	<u>Endpoints</u>	<u>Classification</u>
Product	Pimephales promelas (fathead minnow)	48 h	LC50	39.1 mg/l	-	Harmful to fish.
Product	Daphnia pulex (Water flea)	48 h	LC50	63.6 mg/l	-	Harmful to aquatic organisms.

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

UN Number:	2734
Description of the goods	Amine, liquid, corrosive, flammable n.o.s.(Cyclohexylamine)
Class	8
Packing group	II
Labels	8 (3)
Emergency Response	132
Guidebook Number	
Environmentally hazardous	no

IATA

UN number	2734
Description of the goods	Amines, liquid, corrosive, flammable, n.o.s.(Cyclohexylamine)

Class 8
Packing group II
Labels 8 (3)

IMDG

UN number 2734
Description of the goods AMINES, LIQUID, CORROSIVE, FLAMMABLE, N.O.S.(Cyclohexylamine)

Class 8
Packing group II
Labels 8 (3)
Marine pollutant no

SECTION 15. REGULATORY INFORMATION

U.S. Federal regulations

CERCLA: Hazardous substances - Reportable quantity:

None of the components are listed.

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

Fire Hazard
Acute Health Hazard
Chronic Health Hazard

SARA 313 - Supplier notification

None of the components are listed.

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: The following components are listed: Cyclohexylamine

State regulations

Massachusetts Substances: The following components are listed: Cyclohexylamine 3-Methoxypropylamine

Pennsylvania RTK Hazardous Substances: The following components are listed: Cyclohexylamine 3-Methoxypropylamine

New Jersey Hazardous Substances: The following components are listed: Cyclohexylamine 3-Methoxypropylamine

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

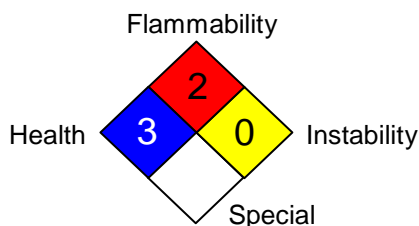
United States inventory (TSCA 8b): On TSCA Inventory

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.):



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