

# Material Safety Data Sheet

## DF-410

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

<b>Product name</b>	DF-410
<b>Product use</b>	Defoaming agent
<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>	May cause sensitization by skin contact.
<b>Physical state</b>	liquid
<b>Color</b>	opaque white.
<b>Odor</b>	mild
<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>	May cause mild eye irritation.
<b>Ingestion</b>	No known significant effects or critical hazards.
<b>Chronic Exposure</b>	No known significant effects or critical hazards.
<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>
Octadecanoic Acid	Proprietary	1 - 5
Lauryl Alcohol Ethoxylate	68551-12-2	1 - 5
POE (20) sorbitan tristearate	9005-71-4	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>	Remove contact lenses. Flush eyes with water as a precaution. Keep eye wide open while rinsing.
<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>	No specific fire or explosion hazard.
<b>Flash point</b>	> 212 °F (100.0 °C) Pensky-Martens. 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.
<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>	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>	Use only with adequate ventilation. Put on appropriate personal protective
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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. 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.

## 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 glasses.                                                                                                                                                              |
| <b>Skin and body protection</b> | Wear as appropriate: Chemical-resistant apron. Long sleeved clothing. Footwear protecting against chemicals.                                                                 |
| <b>Respiratory protection</b>   | No personal respiratory protective equipment normally required.                                                                                                              |

### Occupational Exposure Limits

Not established

- |                             |                                                                                                                                                                                                                                                                                                                 |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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

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|-----------------------------------|------------------------------------------------|
| <b>Physical state</b>             | liquid                                         |
| <b>Color</b>                      | opaque white.                                  |
| <b>Odor</b>                       | mild                                           |
| <b>Odor Threshold</b>             | Not available.                                 |
| <b>Melting/freezing point</b>     | Not available.                                 |
| <b>Pour point</b>                 | 35 °F (1.7 °C)                                 |
| <b>Boiling/condensation point</b> | 212 °F (100.0 °C)                              |
| <b>Flash point</b>                | > 212 °F (100.0 °C) Pensky-Martens. closed cup |
| <b>pH</b>                         | 8.0 - 9.5                                      |
| <b>Solubility</b>                 | Water                                          |
| <b>Relative density</b>           | 0.95 - 0.992 at 77 °F (25.0 °C)                |
| <b>Vapor pressure</b>             | Not available.                                 |
| <b>Evaporation rate</b>           | Not available.                                 |

**Viscosity** 400 - 1,000 mPa.s at 25 °C (77 °F)  
**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** No specific data.  
**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

No data is available on the product itself.

### 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 type</u>	<u>Value</u>	<u>Endpoints</u>	<u>Classification</u>
Product	Pimephales promelas (fathead minnow)	96 h	LC50	1,045 mg/l	-	Practically non-toxic to aquatic organisms.
Product	Daphnia magna (Water flea)	48 h	EC50	1,757 mg/l	-	Practically non-toxic 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**  
Not dangerous goods

**TDG**  
Not dangerous goods

**IATA**  
Not dangerous goods

**IMDG**  
Not dangerous goods

Not classified as dangerous in the meaning of transport regulations.

**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:**  
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:** None of the components are listed.

**State regulations**

**Massachusetts Substances:** None of the components are listed.

**Pennsylvania RTK Hazardous Substances:** None of the components are listed.

**New Jersey Hazardous Substances:** None of the components are listed.

**California Prop. 65:**

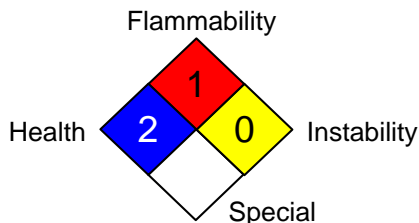
This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

**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.):**



- Prepared by** Product Stewardship (1-713-457-2400)
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- Date of previous issue** 00/00/0000
- Version** 1.0

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