



**FreshAWL® Z-FOG™ Concentrate  
MATERIAL SAFETY  
DATA SHEET**

FreshAWL, LLC  
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EMERGENCY TELEPHONE: (800) 424-9300  
PRODUCT INFORMATION:

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H M I S  
HEALTH: 1  
FLAMMABILITY: 0  
REACTIVITY: 0  
PERSONAL PROTECTION: C

**II. PRODUCT IDENTIFICATION**

Product Name: FreshAWL® Z-FOG™ Concentrate  
Synonyms: NONE  
Chemical Family: Cleaning Compound

OSHA CAS#	SARA 313	COMPONENT	RQ #	TWA	STEL*	WEEL*
NE	None	Organo-imino Complex	None	NE	NE	NE

Other than those listed, there are no ingredients with ACGIH exposure limits present at 1% or more, and no known \*TWA= Time Weighted Average; STEL= Short Term Exposure Limit; WEEL= Workplace Employee Exposure Level. NE + Not evaluated. NA + Not applicable.

**III. HAZARDS IDENTIFICATION**

OSHA Hazard Classification: Health hazard. Harmful if swallowed. Irritating to eyes, skin, and respiratory system.  
Hazard description: Moderate health hazard. Severe eye irritant. Ingestion hazard.  
Particular dangers: Harmful if swallowed and by inhalation. Irritating to eyes, skin and respiratory system.  
Routes of Entry: Eye, inhalation, skin  
Chemical Interactions: Avoid contact with acids and oxidizing agents.  
Medical Conditions Aggravated: None

**Human Threshold Response Data**

Odor Threshold: Not Established  
Irritation Threshold: Not Established

**Hazard Category Classifications and Ratings**

<u>Hazard Categories:</u>	Health	Fire	Pressure	Reactivity	Reference
Immediate	NO	NO	NO	NO	OSHA 29 CFR 1910.1200 and
Delayed	NO	NO	NO	NO	SARA 302/311/312/313

HMIS Hazard Ratings: Health 1 Fire 0 Reactivity 0 Other: C (Goggles, gloves)

NFPA 704 Hazard Ratings: Health 1 Flammability 0 Reactivity 0 Special N/A

Hazard Ratings: Least: 0 Slight: 1 Moderate: 2 High: 3 Extreme: 4

"NO" in Delayed Fire hazard category indicates lack of a spontaneous combustion hazard

**Immediate Health Effects**

Inhalation Toxicity: Harmful if Swallowed  
Inhalation Irritation: Harmful if Swallowed  
Skin Contact: Repetitive exposure may de-fat, dry and irritate the skin.  
Skin Absorption: Not a recognized hazard.  
Eye Contact: Exposure may cause severe irritation including a burning sensation, tearing, redness and swelling.  
Ingestion Irritation: Can cause gastrointestinal discomfort including nausea, vomiting, lethargy, and diarrhea.  
Ingestion Toxicity: None Known  
Acute Target Organ Toxicity: None

**Prolonged (Chronic) Health Effects**

Carcinogenicity: This product is not known or reported to be carcinogenic by any reference source including, IARC, OSHA, NTP or EPA.  
Reproductive and Developmental Toxicity: None known  
Sensitization: None known  
Inhalation: None known  
Chronic Target Organ Toxicity: None, including reporting by IARC< OSHA< NTP or EPA.  
Supplemental Health Hazard Information: None, including reporting by IARC< OSHA< NTP or EPA.

**IV. EMERGENCY AND FIRST AID PROCEDURES**

SKIN: Flush with water—prolonged contact can cause irritation or allergic dermatitis.  
EYES: Flush with water for at least 15-minutes or until irritation dissipates.  
INHALATION: Immediately remove person to fresh air. Keep person calm. If not breathing, give artificial respiration. If not breathing give oxygen.  
INGESTION: Seek medical attention immediately. If person is conscious give water to dilute stomach contents

**V. FIREFIGHTING MEASURES**

FLASH POINT (°F) : >213°F **FLAMMABLE LIMITS:** LEL NONE UEL NONE  
EXTINGUISHING MEDIA: WATER X ALCOHOL FOAM X CO2 X DRY CHEMICAL X  
Do not allow contaminated water to enter storm drains or open waterways  
FIRE FIGHTING INSTRUCTIONS: Use normal firefighting equipment including a NIOSH approved self-contained breathing apparatus (SCBA). Use water to cool containers. Product may float on water if spilled.

**VI. ACCIDENTAL RELEASE MEASURES**

Personal Protection for Emergency Situations: Evacuate the area of all unnecessary personnel.  
Spill Mitigation Procedures  
Air Release: Vapors may be suppressed by the use of water fog. Contain all liquid for treatment and/or disposal as a (potential) hazardous waste. US regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of stipulated quantities (RQ). US Coast Guard National Response Center is 800-424-8802.  
Water Release: This material is soluble in water. Contain all liquid for treatment and/or disposal as a (potential) hazardous waste. If not contaminated with other chemicals, this can be disposed of in a sanitary sewer.  
Land Release: Create a dike or trench to contain materials. Absorb spill, or pump to liquid storage for disposal in a sanitary sewer or landfill. Decontaminate all clothing and the spill area using detergent and flush with large amounts of water; contain water for disposal in sanitary sewer.  
Additional Spill Information: Stop source of spill as soon as possible and notify appropriate personnel. Utilize emergency response personal protection equipment prior to the start of any response. Evacuate all non-essential personnel. Dispose of spill residues per guidelines under Section XIII, Disposal Considerations.



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**VII. HANDLING AND STORAGE**

**Handling:** Do not take internally. Avoid contact with skin, eyes and clothing. Upon contact with skin or eyes, wash with water. Avoid breathing vapor or mist. Electrically ground all equipment when handling this product. Retained residue may make empty containers hazardous. **USE CAUTION!**  
**Storage:** Keep container closed. Store in a cool, ventilated area away from oxidizers and acids.

**VIII. EXPOSURE CONTROLS AND PERSONAL PROTECTION**

**Ventilation:** Local exhaust ventilation or other engineering controls are normally not required when handling this product. Rather, use general exhaust ventilation if that is sufficient for general worker safety and comfort. A NIOSH/MSHA approved air supplied respirator is advised in the absence of adequate ventilation. Protective Equipment for routine use of Product  
**Respiratory Protection:** See previous paragraph. Material should be handled with proper ventilation. For open use of the product, minimize exposed wet area.

**Respirator Type(s)**

Air purifying respirators should not be used in oxygen deficient or IDLH atmospheres or if exposure concentrations exceed ten (10) times the published limit.

**Skin:** Wear impervious gloves (butyl rubber, Viton, etc.) to avoid skin contact. Practice good industrial hygiene.

**Eyes:** When using this product for cleaning, safety eyewear is recommended. When transferring this product from container to container wearing goggles or face shield is recommended to avoid possible splash.

**Protective Clothing Type:** Impervious.

NIOSH Level Immediately Dangerous to Life or Health: Not Available.

**IX. PHYSICAL PROPERTIES**

<b>Physical State:</b>	Liquid		
<b>Color:</b>	Slight Yellow		
<b>Odor:</b>	Characteristic		
<b>Freeze Point:</b>	< 13°F	<b>Specific Gravity:</b>	1.080 kg./L      9.013 lbs./gal.
<b>Boiling Point (°F):</b>	200°F	<b>Percent Volatiles(By Weight):</b>	1%
<b>Vapor Pressure (mm Hg):</b>	UNKNOWN	<b>Evaporation Rate:</b>	SLOW
<b>Vapor Density (Air=1):</b>	>1	<b>pH:</b>	8.5-9
<b>Solubility in Water:</b>	SOLUBLE		
<b>Appearance and Odor:</b>	CLEAR, FOAMY SOLUTION		

**X. REACTIVITY DATA**

<b>Stability:</b>	STABLE	<b>Conditions to Avoid:</b> NONE
<b>Hazardous Polymerization:</b>	WILL NOT OCCUR	<b>Conditions to Avoid:</b> NONE
<b>Incompatibility:</b>	ACIDS	
<b>Hazardous Combustion Products:</b>	Oxides of Carbon and Nitrogen	

**XI. TOXICOLOGICAL INFORMATION**

<b>Aquatic Toxicity:</b>	LC-50/96-rainbow trout	5,000 ppm
<b>Component Animal Toxicology</b>		
<b>Oral LD50 value mg/kg:</b>	None	
<b>Dermal LD50 value mg/kg:</b>	None	
<b>Inhalation LCLo:</b>	None	
<b>Component Fetal Effects:</b>	Tests with lab animals have <b>not</b> resulted in birth defects, testicular damage or sperm damage from this product.	
<b>Skin Irritation:</b>	This material may be slightly irritating.	
<b>Eye Irritation:</b>	This material may be slightly irritating, prolonged exposure may be damaging.	
<b>Reproductive and Developmental Toxicity:</b>	See "Component fetal effects" above in this section.	
<b>Mutagenicity:</b>	None	
<b>Carcinogenicity:</b>	None, including reporting by IARC< OSHA< NTP or EPA.	

**XII. ECOLOGICAL INFORMATION**

<b>Ecological Toxicity Values:</b>	
<b>Environmental fate:</b>	Expected to be inherently biodegradable from studies on similar materials.
<b>Environmental Toxicity:</b>	No information found

**XIII. DISPOSAL INFORMATION**

**WASTE DISPOSAL INFORMATION:** Comply with Local, State and Federal Regulations. Avoid environmental contamination from the use of this material. The user of this material has the responsibility to dispose of unused material, residues, and containers in compliance with all relevant local, state and federal laws.  
**Waste Disposal Summary:** This product has none of the characteristics of a hazardous waste. Disposal Methods: Dispose of in accordance with local, state and federal regulations. Disposal preferred in sanitary sewer.  
**Components subject to land ban restrictions:** No components subject to land ban restrictions. Do not release to environment without appropriate permits.  
**RCRA HAZARDOUS WASTE:** NO X RQ: Unknown lbs UN/NA NO. Not assigned

**XIV. TRANSPORTATION INFORMATION**

<b>Proper Shipping Name:</b>	Cleaning Compound Chemical, Not DOT Regulated
<b>Hazard Classification:</b>	None
<b>Labels Required per 49CFR 172.101:</b>	NONE
<b>Size for "Limited quantity" per 49 CFR 173.150-155:</b>	None established
<b>Reportable quantity ("RQ") per 49 CFR 172.101:</b>	Not applicable
<b>CFR173: Passenger Aircraft/rail, Cargo Aircraft, and Vessel Stowage:</b>	None established.

**XV. REGULATORY INFORMATION**

**United States:**  
**Toxic Substances Control Act (TSCA):** The components of this product are listed on the TSCA Inventory of Existing Chemical Substances  
**Superfund Amendments and Reauthorization Act (SARA) Title III:** See section III of this MSDS  
**Hazard Categories Sections 311/312(40CFR 370.2):**  
*Health:* Acute: NO *Chronic:* NO *Physical:* Not Regulated  
**Emergency Planning and Community Right to Know (40CFR 355, App A):** Not applicable  
**Reportable Quantity (40CFR 302.4):** None  
**Supplier Notification Requirements (40 CFR 372.45), 313 Reportable Components:** See section II above

**State Right-To-Know Regulations Status of Ingredients:**  
 Pennsylvania: No information; New Jersey: No information; Massachusetts: No information

**XVI. ADDITIONAL INFORMATION**

This Material Safety Data Sheet (MSDS) has been prepared in compliance with the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200 and ANSI Z400 1-2004. This information should be provided to all who will use, handle, store, transport, or otherwise be exposed to this product. FreshAWL believes this information to be reliable and up to date as of this publication date, but make no warranty that it is. If this MSDS is more than three years old, you should contact the supplier to make sure the information is still current.