



**FreshAWL® DF-701™
MATERIAL SAFETY
DATA SHEET**

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PRODUCT INFORMATION: H M I S
HEALTH: 2
FLAMMABILITY: 1
REACTIVITY: 0
PERSONAL PROTECTION: C

II. PRODUCT IDENTIFICATION

Product Name: FreshAWL® DF-701™
Synonyms: Heavy Duty Degreaser
Chemical Family: Terpene Detergent

CAS NO: None

III. HAZARDS IDENTIFICATION

COMPONENT: NONE

OSHA CAS ACGIH
PEL # TLV
5989-27-5

IV. PHYSICAL PROPERTIES

FREEZE POINT: Unknown
BOILING POINT (°F): 340° F
VAPOR PRESSURE (mm Hg): 2 mm Hg
VAPOR DENSITY (AIR=1): > 1
SOLUBILITY IN WATER: Dispersible
APPEARANCE AND ODOR: Pale yellow to amber liquid with citrus odor

SPECIFIC GRAVITY: 1.0
PERCENT VOLATILE (BY WEIGHT): 347G/L
EVAPORATION RATE: Slow
pH: 11.5

V. FIRE & EXPLOSION HAZARD DATA

FLASH POINT (°F): 150°F

FLAMMABLE LIMITS: LEL 0.7%
UEL 6.1%

EXTINGUISHING MEDIA: WATER X ALCOHOL FOAM X CO2 X DRY CHEMICAL X
SPECIAL FIREFIGHTING PROCEDURES: USE STANDARD FIREFIGHTING TECHNIQUES TO FIGHT FIRES INVOLVING THIS MATERIAL. DF-701™ IS COMBUSTIBLE.
UNUSUAL FIRE AND EXPLOSION HAZARDS: VAPORS MAY BE HEAVIER THAN AIR AND MAY TRAVEL THE GROUND TO IGNITION SOURCE AND FLASH BACK

VI. REACTIVITY DATA

STABILITY: STABLE
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR
INCOMPATIBILITY: STRONG OXIDIZING AGENTS
HAZARDOUS DECOMPOSITION PRODUCTS: CARBON MONOXIDE

CONDITIONS TO AVOID: OPEN FLAMES
CONDITIONS TO AVOID: HIGH TEMPS

VII. PERSONAL PROTECTIVE EQUIPMENT INFORMATION

RESPIRATORY PROTECTION: USE RESPIRATOR IF SPRAYING CONCENTRATES; NONE NEEDED FOR NORMAL USE.
PROTECTIVE GLOVES: BUTYL, LATEX OR RUBBER TO PROTECT FROM EXPOSURE.
EYE PROTECTION: 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.
VENTILATION: LOCAL OR MECHANICAL RECOMMENDED.
OTHER PROTECTIVE EQUIPMENT: NONE REQUIRED.

VIII. HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: UNKNOWN
LC50 Fathead Minnow: <50 ppm based on concentrate
DERMAL IRRITATION-RABBIT: Mild to severe irritation depending on concentration.



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EFFECTS OF OVEREXPOSURE:

INHALATION: Inhalation of high concentrations may cause irritation of the respiratory tract.

DERMAL: LIQUID CONTACT CAN CAUSE IRRITATION

EYE CONTACT: CAN CAUSE MILD IRRITATING AND REDNESS

ORAL: MAY CAUSE STOMACH ACHE OR IRRITATION

KNOWN EFFECTS ON OTHER ILLNESSES: NONE KNOWN

LISTED CARCINOGEN: NONE: X **OSHA:** **NTP:** **1ARC:** **OTHER:**

IX. 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 IS RELIEVED.

INHALATION: IMMEDIATELY REMOVE 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 CONTENT.

NOTE TO PHYSICIAN: NONE

X. SPILL AND DISPOSAL INFORMATION

STEPS TO BE TAKEN IN CASE OF A SPILL

VENTILATE AREA. REMOVE OPEN FLAMES. USE SELF CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING. VAPORS ARE HEAVIER THAN AIR AND WILL COLLECT IN LOW AND CONFINED AREAS.

WASTE DISPOSAL INFORMATION: COMPLY WITH FEDERAL, STATE, AND LOCAL REGULATIONS.

RCRA HAZARDOUS WASTE: YES NO X **RQ:** lbs. UN/NA NO.

SHIPPING NAME: TERPENE BASED HYDROCARBONS

HAZARD CLASSIFICATION: COMBUSTIBLE LIQUID

XI. 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.