

MATERIAL SAFETY DATA SHEET

HF scientific, inc.
3170 Metro Parkway
Fort Myers, FL 33916-7597
(941) 337-2116
Mon-Fri 8:00 am - 4:30 pm

24 Hour Emergency
Telephone Number
CHEMTREC
1-800-424-9300

SECTION 1 PRODUCT IDENTIFICATION**PRODUCT NAME:** DETERGENT ADDITIVE**CATALOG NUMBER:**

HF scientific, inc.: 8 oz. - 10223
1 gal. - 10224

U.S. Filter/Wallace & Tiernan: 8 oz. - U29142
1 gal. - UAX29142

CHEMICAL NAME: DOWFAX 2A1, CAS # 119345-04-9**CHEMICAL FAMILY/SYNONYMS:** Anionic Surfactants**Formula:**

Ingredient(s)	CAS Number	% (by weight)
Water	7732-18-5	52-56
Dodecylphenoxybenzenedisulfonic Acid, Disodium Salt	28519-02-0	30-34
Didodecylphenoxybenzenedisulfonic Acid, Disodium Salt	25167-32-2	12-16

SECTION 2 HAZARDOUS DATA

Hazardous Ingredient(s)	OSHA PEL/ACGIH TLV	Toxicological Information
DOWFAX 2A1		Skin: Rabbit LD50 >2000mg/kg
CAS #	No Limits	Ingestion: Female rats LD50 >2000mg/kg
119345-04-9	Established	

SECTION 3 PHYSICAL DATA**Boiling Point:** 212°F, 100°C**Solubility in Water:** Completely miscible**Vapor Pressure (mm Hg):** 82.7 @ 68° F**Melting Point:** Not Found**Appearance and Odor:** Light yellow to light brown liquid (aqueous solution) with a disinfectant-type odor.**Vapor Density (AIR=1):** 0.600**Specific Gravity:** 1.12 - 1.16 @ 25° C**Percent Volatiles By Volume:** 53 to 57%**Evaporation Rate:** Slower than ethyl ether**SECTION 4 FIRE AND EXPLOSION HAZARD DATA****Flash Point:** Not applicable**Flammable Limits** LEL: Not applicable UEL: Not applicable**Extinguishing Media:** Alcohol foam, water fog, carbon dioxide, dry chemical.**Fire Fighting Procedures:** Water or foam may cause frothing which can be violent and possibly endanger the life of the firefighter. Water may be used to keep fire-exposed containers cool until fire is out. Wear a self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment.**Unusual Fire and Explosive Hazards:** combustion products may include and are not limited to : sulfur oxides, carbon dioxide and carbon monoxide.**SECTION 5 HEALTH EFFECTS AND FIRST AID****Route(s) Of Entry:** Inhalation? Yes. Skin? Yes. Ingestion? Yes.**Potential Health Effects****Eye:** Exposure can cause severe eye irritation, including blurred vision, and eye damage. Eye damage may include moderate corneal injury, permanent impairment of vision or even blindness.**Skin:** Exposure can cause skin irritation. Symptoms may include redness, burning, drying and cracking, skin burns and skin damage.**Ingestion:** Single dose oral toxicity is low. Swallowing small amounts during normal handling is not likely to cause harmful effects; swallowing large amounts may be harmful.**Inhalation:** Excessive exposure may cause irritation to upper respiratory tract.**Signs And Symptoms Of Exposure:** Irritation of skin, eyes, gastrointestinal tract and respiratory tract.**Medical Conditions Generally Aggravated By Exposure:** Overexposure to this material may aggravate pre-existing disorders of kidneys or liver.**EMERGENCY FIRST AID PROCEDURES:****Eyes:** Immediately flush eyes gently with copious quantities of water for a minimum of 15 minutes. Use fingers to assure that eyelids are separated and that eye is being irrigated. If symptoms develop as a result of vapor exposure, immediately move individual away from exposure and into fresh air before flushing as recommended above. Call a physician.**Skin:** Remove contaminated clothing. Flush contaminated area with copious quantities of water for 15 minutes. Call a physician. Launder clothing before reuse.**Ingestion:** If individual is drowsy or unconscious, do not give anything by mouth. If individual is conscious and alert, induce vomiting by giving syrup of ipecac or by gently placing two fingers at the back of the throat. Call a physician.**Inhalation:** If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet.**Note to Physician:** No specific antidote. Supportive care. Treatment based on judgment of the physician in response to reactions of the patient.**SECTION 6 REACTIVITY DATA****Stability:** Stable under ordinary conditions of use & storage.**Conditions To Avoid:** None known.**Incompatibilities:** Strong acids.**Hazardous Decomposition Products:** May form carbon dioxide and carbon monoxide, sulfur compounds.**Hazardous Polymerization:** Will not occur.**SECTION 7 SAFE HANDLING AND USE****Steps To Be Taken In Case Material Is Released or Spilled:** For small spills, absorb with material such as sawdust, vermiculite, floor absorbent or other absorbent material. For large spills, Prevent run-off to sewers, streams or other bodies of water. If run-off occurs, notify proper authorities as required, that a spill has occurred. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source, dike area of spill to prevent spreading, pump liquid to salvage tank. Remaining liquid may be taken up on sand, clay, earth, floor absorbent, or other absorbent material and shoveled into containers.**Waste Disposal Method:** Dispose of in accordance with all applicable federal, state and local environmental regulations.**Precautions To Be Taken In Handling & Storage:** Product may become solid at temperatures below 32° F (0° C). Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed. Avoid contact with water. This material is slippery when wet. Isolate from incompatible substances.**SECTION 8 CONTROL MEASURES****Respiratory Protection:** If overexposure has been determined, a NIOSH/MSHA jointly approved air supplied respirator is advised in absence of proper ventilation.**Ventilation Systems:** Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below level of overexposure (from known, suspected or apparent adverse effects).**Skin Protection:** Wear resistant gloves and impervious clothing and footwear.**Eye Protection:** Use chemical safety goggles &/or full face shield where splashing is possible.**Other Protective Equipment:** Maintain eye wash fountain and quick-drench facilities in work area.**Work/Hygienic Practices:** Wash well after handling. Avoid breathing vapors.

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