

MATERIAL SAFETY DATA SHEET

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SECTION 1: PRODUCT and COMPANY IDENTIFICATION

PRODUCT NAME: AF-4
PRIMARY FUNCTION: foam control agent
CHEMICAL FAMILY: defoamer / antifoam
CHEMICAL NAME: organic defoamer

MANUFACTURER:
WATER SPECIALISTS TECHNOLOGIES, LLC
1515 KASTNER PLACE
SANFORD, FL 32771 USA
PHONE: 407-321-7910 FAX: 407-321-3098

EMERGENCY 24/7 CONTACT:
CHEMTREC PHONE: 1- 800-424-9300

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	(CAS #)	%WT	OSHA PEL	ACGIH TLV	OTHER
Heavy Hydrotreated Naphthenic Distillates	64742-52-5	>75	5 mg/m3 (mist) 8 hours	5 mg/m3 (mist) 8 hours	

The precise composition is proprietary. Bona fide requests for disclosure to medical personnel must be made in accordance with the procedures in 29 CFR 1910.1200(i)1-13.

While this material is not classified as hazardous under OSHA regulations, this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.

SECTION 3: HAZARDS IDENTIFICATION

EYES: May cause slight eye irritation.

SKIN: May cause slight skin irritation upon repeated or prolonged contact.

INGESTION: May result in very slight nausea/intestinal discomfort.

INHALATION: Not considered a hazard under normal use conditions. Mist, vapor, or spray may cause mild irritation to the nose and throat if inhaled.

SECTION 4: FIRST AID MEASURES

EYES: Flush eyes with running water for at least 15 minutes. Hold eyelids apart to ensure rinsing of the entire surfaces of the eye and lids with water. If irritation persists, seek medical attention and show MSDS.

SKIN: Wash exposed areas with copious amounts of fresh water. Remove contaminated clothing while washing continuously. Discard contaminated clothing and shoes.

INGESTION: Immediately rinse mouth with water. Do not induce vomiting. Drink 32 ounces of water to dilute. Seek medical attention.

INHALATION: If respiratory distress occurs, get into fresh air and, if needed, administer oxygen and start CPR. Seek medical attention.

SECTION 5: FIRE FIGHTING MEASURES

- FLASH POINT:** >149C (Pensky-Martins Closed Cup)
- EXTINGUISHING MEDIA:** Use carbon dioxide, dry chemical, foam, or water fog to extinguish flames. Water spray may be used to cool fire-exposed containers.
- SPECIAL FIRE FIGHTING PROCEDURES:** Do not enter confined fire space without proper protective equipment including a NIOSH/MSHA approved self-contained breathing apparatus.
- UNUSUAL FIRE AND EXPLOSION HAZARDS:** Thermal breakdown of this product may produce fumes, smoke, carbon monoxide, aldehydes, and traces of incompletely burned hydrocarbon compounds.

SECTION 6: ACCIDENTAL RELEASE MEASURES

- SMALL SPILLS:** Solidify with absorbent, noncombustible material and place in labeled containers for disposal.
- LARGE SPILLS:** Dike the spilled liquid and either pump into original container or cover with adsorbent material.
- WASTE DISPOSAL METHOD:** Dispose of in accordance with local, state and federal regulations. This material is not regulated by RCRA or CERCLA.
- SPECIAL PRECAUTIONS:** Remove spills promptly as they may make floors slippery. Several washes with water and/or detergents may be necessary to completely clean any spill.

SECTION 7: HANDLING and STORAGE

- HANDLING AND STORAGE:** Ensure containers are properly secured prior to moving. Keep container closed during storage. Product should be stored in temperatures from 50-95F. Keep away from heat, sparks, direct sunlight, combustible materials, moisture, and foreign materials.
- OTHER PRECAUTIONS:** Do not swallow. Avoid contact with eyes, skin, and clothing. Wear protective eye goggles, gloves, boots and clothing.

SECTION 8: EXPOSURE CONTROLS and PERSONAL PROTECTION

- EYE PROTECTION:** Safety glasses with side shields are recommended as a minimum but chemical splash-proof goggles are preferred.
- PROTECTIVE GLOVES:** Wear chemical resistant gloves (vinyl, neoprene, or nitrile).
- RESPIRATORY PROTECTION:** None normally required. Use a NIOSH/MSHA approved air-purifying respirator if ventilation is unavailable.
- VENTILATION:** Always store and use all chemicals in well ventilated areas.
- OTHER PROTECTIVE EQUIPMENT:** Wear protective clothing and rubber boots suitable for protection from chemical products. Provide eye wash and safety shower stations.

SECTION 9: PHYSICAL and CHEMICAL PROPERTIES

BOILING POINT:	Not determined
DENSITY:	0.885g/ml
EVAPORATION RATE:	Not determined
VAPOR DENSITY:	Not determined
SOLUBILITY IN WATER:	Dispersible
pH of 1% SOLUTION:	6.0 – 9.0
APPEARANCE/ODOR:	Tan to pale amber, opaque liquid with mild odor
VISCOSITY:	400 cP (Brookfield RVT)
POUR POINT:	35F

SECTION 10: STABILITY and REACTIVITY

STABILITY:	Product is stable under normal conditions
HAZARDOUS POLYMERIZATION:	Will not occur
INCOMPATIBILITY (MATERIALS TO AVOID):	Strong oxidizing agents, strong acids, and alkalis
HAZARDOUS DECOMPOSITION PRODUCTS:	None

SECTION 11: TOXICOLOGICAL INFORMATION

CHRONIC EFFECTS AND MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE: None noted.
SPECIAL NOTE: None of the components in this product are considered a carcinogen by OSHA, NTP or IARC.

SECTION 12: ECOLOGICAL INFORMATION

None determined.

SECTION 13: DISPOSAL CONSIDERATIONS

Discarded product is not considered hazardous waste under RCRA, 40CFR 261. Dispose of in accordance with federal, state, and local environmental laws. It is recommended that the waste be sent to a local treatment facility for disposal. Do not distribute, make available, furnish, or re-use empty container except for storage and shipment of original product.

SECTION 14: TRANSPORT INFORMATION

DEPARTMENT OF TRANSPORTATION (DOT):	Not regulated
TRANSPORTATION OF DANGEROUS GOODS (TDG):	Not regulated

SECTION 15: REGULATORY INFORMATION

FEDERAL EPA

Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA):

Requires notification to the National Response Center of releases of quantities of Hazardous Substances equal to or greater than the reportable quantities (RQ) in 40 CFR 302.4. Components present in this product at a level which would require reporting under the statute are:

<u>Chemical</u>	<u>CAS Number</u>	<u>RQ</u>
NONE		

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III:

Requires emergency planning based on Threshold Planning Quantities (TPQs) and release reporting based on Reportable Quantities (RQ) in 40 CFR 355 (SARA 302, 304, 311 and 312) Components present in this product at a level which could require reporting under the statute are: NONE

Toxic Substances Control Act (TSCA) Status:

All components of this product are on the TSCA inventory

EPA Priority Pollutants: NONE

RCRA Hazard Class: If discarded - non-hazardous.

FOREIGN INVENTORY STATUS: Canadian DSL, EINECS

WHMIS CLASSIFICATION (CANADA): Not controlled

SECTION 16: OTHER INFORMATION

HMIS RATINGS: Health=1, Flammability=1, Reactivity=0

HMIS HAZARD INDEX: 0=MINIMAL, 1=SLIGHT, 2=MODERATE, 3=SERIOUS, 4=SEVERE

LEGEND:

CAS Chemical Abstract Number
CERCLA Comprehensive Environmental Response, Compensation and Liability Act
CFR Code of Federal Regulations
DOT Department of Transportation
HMIS Hazardous Materials Identification System
IARC International Agency for Research on Cancer
MSDS Material Safety Data Sheet
N/A Not Applicable
N/D Not Determined
NTP National Toxicity Program
OSHA Occupational Safety and Health Administration
PEL Permissible Exposure Limit
SARA Superfund Amendments and Reauthorization Act
TSCA Toxic Substance Control Act
TLV Threshold Limit Value

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. Users are responsible to determine the suitability of this product and to evaluate risks prior to use.