


Safety Data Sheet

NFPA HAZARD RATING				U.S. TRANSPORT SUMMARY	
0	Least				
1	Slight	2	Health	Not Regulated for ground transportation by US DOT	
2	Moderate	1	Flammability		
3	High	0	Reactivity		
4	Severe				

SECTION 1: IDENTIFICATION	
Product Name:	OPTIFY® 4X
Common Name:	Non-AMS Water Conditioner, Nonionic Surfactant, Drift Reduction Agent, Volatility Reduction Agent
Chemical Description:	Non-AMS Water Conditioner, Nonionic Surfactant, Drift Reduction Agent, Volatility Reduction Agent
Recommended Uses:	Adjuvant – See product label for full directions for use.
Restrictions for Use:	See product label for any potential use restrictions
Manufactured For: WINFIELD SOLUTIONS, LLC P. O. Box 64589 St. Paul, MN 55164-0589	MEDICAL EMERGENCY TELEPHONE NUMBER: 1-877-424-7452 (24hrs) Non-Emergency Business Inquiries: 1-855-494-6343 Mon – Fri 8am – 5pm (Central Standard Time)
FOR EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT, CALL: CHEMTREC 1-800-424-9300 (24 hours)	

SECTION 2: HAZARDS IDENTIFICATION	
POTENTIAL HEALTH EFFECTS:	
Eyes: Eye Irritation, Category 2A: Causes serious eye irritation	
Carcinogenicity	NTP: Not listed IARC: Not listed OSHA: Not listed
SIGNAL WORD: WARNING	
HAZARD STATEMENTS:	
KEEP OUT OF REACH OF CHILDREN	
Causes serious eye irritation.	
	
PRECAUTIONARY STATEMENTS:	
Prevention:	Precautionary Statements:
	General: Read label before use. Wash hands, face, and other affected areas thoroughly after handling. Do not eat, drink, or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves / protective clothing / eye protection / face protection. Avoid breathing fumes, mist, vapors, or spray.
Response:	IF IN EYES: Rinse cautiously with water for several minutes, also under eyelids. Immediate medical attention is required,
Storage:	See Section 7 for storage information.
Disposal:	See Section 13 for disposal information.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	% (wt)	CAS Reg. #
Polyethylene Glycol	>=15 - <20	25322-68-3
*Proprietary Blend	>=1 - <10	*
*Ingredients not specifically listed are non-hazardous and are considered to be confidential business information under 29 CFR 1910.1200(i).		
See Section 8 for exposure limits.		

SECTION 4: FIRST AID MEASURES

INHALATION:	If medical advice is needed, have product container or label at hand. All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials of than this product may have occurred. Call a POISON CENTER / doctor / seek medical attention if you feel unwell. Remove person to fresh air and keep comfortable for breathing.
INGESTION:	Do not induce vomiting without medical advice. Rinse mouth with water. Do not give anything to drink. Keep at rest. Consult a physician if you feel unwell.
EYES:	Rinse cautiously with water for several minutes, also under eyelids. Immediate medical attention is required,
SKIN:	Use mild soap and was with plenty of soap and water. Take off contaminated clothing and shoes immediately and wash it before reuse. If skin irritation occurs, seek medical attention.

SECTION 5: FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA: Small fires: Water spray, Multipurpose powders, Carbon Dioxide (CO ₂), Alcohol resistant aqueous film foaming foam (AR-AFFF). Large fires: Water Spray, Multipurpose powders, Alcohol resistant aqueous film foaming foam (AR-AFFF). Do not use a solid water stream as it may scatter and spread fire.
SPECIAL FIRE FIGHTING PROCEDURES: Fight fire from a safe distance and protected location. Fight fire upwind to avoid hazardous vapors and decomposing products. Heat may build pressure and rupture closed containers, spreading fire and increasing the risk of injury. Aqueous liquid – does not present any particular risk in the event of a fire. Water may be ineffective in firefighting. Cool down the containers/equipment exposed to heat with a water spray. Ensure that there is NO direct contact between the water and product. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Notify proper authorities if liquid material enters the sewer or public waters.
HAZARDOUS DECOMPOSITION PRODUCTS FORMED UNDER FIRE CONDITIONS (following evaporation of water). High concentrations of toxic or harmful products may remain in the residual liquid once the fire has been extinguished.
HAZARDOUS COMBUSTION PRODUCTS: On combustions or on thermal decomposition (pyrolysis) releases: Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke), nitrogen oxides (NO _x), Halogenated compounds, hydrogen chloride.
FIRE FIGHTING EQUIPMENT: As with any fire, wear self-contained breathing apparatus pressure demand, (MSHA/NIOSH approved or equivalent) and full protective gear.
FURTHER INFORMATION: Evacuate personnel to safe areas. Interventions only by capable personnel who are trained and aware of the hazards of the product. Never approach containers which have been exposed to fire, without cooling them sufficiently. Collect contaminated fire extinguishing water separately. This must be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Environmental Precautions: Stop spill at source. Construct temporary dikes of dirt, sand, or appropriate readily available material to prevent spreading of material (do not use combustible materials). Close cap or valves and/or block or plug hole in leaking container and transfer to another container. Keep from entering storm sewers and ditches which lead to waterways, and if necessary, call the local fire or police department for immediate assistance.
Methods for Containment and Clean up: Spilled material is slippery. Clean up with inert absorbent material (sand, silica gel, acid binder, universal binder). Shovel up and place all spill residue in suitable, closed containers. Never return spill in original container for re-use. Wash unrecoverable remainder with large amounts of water. Clean contaminated surface thoroughly. Recover cleaning water for subsequential disposal. Dispose of material of at an appropriate waste disposal facility according to

current applicable laws and regulations and product characteristics at time of disposal. Decontaminate tools, equipment and personal protective equipment in a segregated area.

Personal Protective Equipment: Avoid inhalation, ingestion and contact with skin and eyes. Wear chemical resistant personal protective equipment, face shield, tightly fitting safety goggles. In case of dust, aerosol formation or vapor formation use respirator with approved filter. For incidental releases use impermeable gloves, goggles, face shield, and appropriate body protection. In the event of a large release, use impermeable gloves, chemically resistant suit and boots, and hard hat. Self-Contained Breathing Apparatus or respirator may be required where engineering controls are not adequate or conditions for potential exposure exist. When respirators are required, select NIOSH/MSHA approved based on actual or potential airborne concentrations in accordance with the latest OSHA and/or ANSI recommendations.

Spill and Leak Response: Uncontrolled releases should be responded to by trained professionals using pre-planned procedures. Proper protective equipment should be used. In case of a spill, clear the affected area, protect people, and respond with trained personnel.

SECTION 7: HANDLING AND STORAGE

Handling: Follow all SDS / label precautions when using this product. Do not reuse the container. Wash hands and face carefully before eating, drinking, using tobacco products, applying cosmetics or using the toilet. Wash exposed skin promptly to remove accidental splashes or contact with material.

Storage: Keep container tightly closed, store in a cool, dry, well ventilated area. Keep from open flames, hot surfaces and sources of ignition. See list of incompatible materials for storage in Section 10: "Stability-Reactivity". Do not store, use and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored. DO NOT FREEZE. Warm to >50F before use and remix is not necessary. Recommended handle temperature is > 50F for best pumping performance.

Minimum Storage Temperature: Store above 45° F

Other Precautions: Consult Federal, State and local laws and regulations pertaining to storage.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Component:

EXPOSURE LIMITS

Polyethylene Glycol

AIHA WEEL (United States, 10/2011)

TWA: 10 mg/m³ 8 hours.

FORM: Aerosol

Respiratory Protection: Avoid high concentrations of vapor and/or mist. Use local exhaust if available or use NIOSH/MSHA approved organic vapor respirator, as necessary.

Engineering Controls: **Local Exhaust:** Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs or other specified exposure limits. Local exhaust ventilation is preferred. Facilities storing or utilizing this material should be equipped with an eyewash station, safety shower, and adequate ventilation.

Skin Protection: Clean, body covering clothing and impervious gloves such as neoprene should be used. Gloves should be inspected prior to use. Please observe the instructions regarding permeability and breakthrough time with are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and contact time. Avoid prolonged and unnecessary skin contact with product. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Suitable material: butyl-rubber, Nitrile rubber, neoprene.

Eye Protection: Wear OSHA standard chemical splash goggles or face mask; avoid eye contact at all times. Appropriate ANSI Z87 approved equipment should be selected for the particular use intended for this material.

Other Protective Clothing or Equipment: For skin and body protection, wear full protective suit, footwear protecting against chemicals, Choose body protection according to the amount and concentration of the dangerous substances at the work place.

Work/Hygienic Practices: Never eat, drink, nor use tobacco in work areas. Practice good hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics. Ensure emergency equipment is immediately accessible, with instructions for use. Ensure that eyewash stations and safety showers are close to the workstation location. Selection of the appropriate personal protective equipment should be based on an evaluation of the performance characteristics of the protective equipment relative to the task(s) to be performed, conditions present, duration of use, and the potential hazards, and/or risks that may occur during use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid	Density	1.10 – 1.30 g/cm ³ (g/ml) (68°F(20°C))
Form:	Viscous Liquid	Melting Point/Freezing Point:	Not determined
Color:	Beige to slightly yellow	Boiling Point/Range:	193.3° F (89.6°C)
Vapor Pressure (mm Hg):	Not determined	Decomposition temperature	350.35°F (176.86°C)
Vapor Density (Air=1):	Not determined	pH:	6.5-8.5 (100%)
Solubility in Water (wt %):	Soluble	Flash Point:	>212°F (100°C) closed cup
Viscosity:	932 mPa.s (68°F (20°C))	Flammability Class:	Will burn
Appearance and odor:	Beige to slightly yellow, characteristic odor		

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Stable at normal ambience temperature and pressure.

Chemical Stability: Stable at recommended storage conditions.

Possibility of Hazardous Reactions: No dangerous reaction known under conditions of normal use. Hazardous polymerization does not occur.

Conditions to Avoid: Keep away from open flames, hot surfaces and sources of ignition. Avoid excessive heat for prolonged periods of time.

Incompatible Materials: Strong oxidizing agents. In contact with concentrated aqueous solution of strong bases (NaOH, KOH, etc) may over time release methanol.

Hazardous Decomposition Products: On combustion or on thermal decomposition (pyrolysis) releases: Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke). Nitrogen oxides (NO_x), halogen compounds, hydrogen chloride.

SECTION 11: TOXICOLOGICAL INFORMATION**ACUTE TOXICITY**

Eye Effects: Irritating to eyes. Avoid eye contact with product at all times.

Skin Effects: Not classified as irritating to skin. According to the available data on the components. According to the classification criteria for mixtures. Unpublished reports and/or published data.

Acute Inhalation Effects: Not classified as hazardous for acute inhalation toxicity according to GHS. According to the available data on the components. According to the classification criteria for mixtures. Unpublished reports and/or published data.

Acute Oral Effects: Not classified as hazardous for acute oral toxicity according to GHS. According to the available data on the components. According to the classification criteria for mixtures. Unpublished reports and/or published data.

Respiratory or skin sensitization: Does not cause skin sensitization. According to the available data on the components. According to the classification criteria for mixtures. Unpublished reports and/or published data.

Specific Target Organ Toxicity: SINGLE: Substance/mixture is not classified as specific target organ toxicant, single exposure according to GHS criteria. According to the available data on the components. According to the classification criteria for mixtures. Unpublished reports and/or published data.
REPEATED: Substance/mixture is not classified as specific target organ toxicant, repeated exposure according to GHS criteria. According to the available data on the components. According to the classification criteria for mixtures. Unpublished reports and/or published data.

CHRONIC TOXICITY

Chronic Effects: No data available

Carcinogenicity: Product not considered to be carcinogenic. According to the available data on the components. According to the classification criteria for mixtures. Unpublished reports and/or published data.

Mutagenicity: Product is not considered to be genotoxic (in vitro and in vivo). According to the available data on the components. According to the classification criteria for mixtures. Unpublished reports and/or published data.

Teratogenicity: No data available

Reproductive Toxicity: Product is not considered to affect fertility. According to the available data on the components. According to the classification criteria for mixtures. Unpublished reports and/or published data.

Developmental Toxicity: Product is not considered to toxic to development. According to the available data on the components. According to the classification criteria for mixtures. Unpublished reports and/or published data.

POTENTIAL HEALTH EFFECTS:

Eyes: Eye Irritation, Category 2A: Causes serious eye irritation

SECTION 12: ECOLOGICAL INFORMATION

ENVIRONMENTAL SUMMARY:

ECOTOXICITY DATA:

Fish Acute and Prolonged Toxicity: No data available
Aquatic Invertebrate Acute Toxicity: No data available
Aquatic Plant Toxicity: No data available
Bird Acute and Prolonged Toxicity: No data available
Honeybee Toxicity: No data available

ENVIRONMENTAL EFFECTS:

Soil Absorption/Mobility: No data available
Persistence and degradability: No data available
Bioaccumulative Potential: No data available
Other adverse effects: No data available

SECTION 13: DISPOSAL CONSIDERATIONS

Waste: Do not discharge directly into the environment. Dispose of product in accordance with applicable Federal, state and local laws and regulations. Do not contaminate water, food, or feed by disposal. Can be incinerated, when in compliance with local regulations.

Container: Do not dispose of untreated packaging with industrial waste. Do not dispose of with domestic refuse. Empty remaining contents. Containers that cannot be cleaned must be treated as waste. Disposal of container in compliance with local, State, and Federal regulations. Empty containers must be handled properly due to product residue. Where possible, recycling is preferred to disposal or incineration. All material for recycling must be completely dry and free of pollutants.

RCRA Characteristics: It is the responsibility of the individual disposing of this product to determine the RCRA classification and hazard status of the waste.

SECTION 14: TRANSPORT INFORMATION

DOT: (Ground) Not regulated for US Transport

IMDG: (Sea) Not regulated

IATA: (Air) Not regulated

TDG: (Canada) Not regulated

SECTION 15—REGULATORY INFORMATION

TSCA Inventory: All components are listed on the TSCA inventory.

SARA Title III Information:

Serious eye damage or eye irritation - YES

Section 302/304 - Extremely hazardous substances: Ethylene Oxide, CAS: 75-21-8, RQ 10LB

Section 311/312 - Hazard Categories: To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Section 313 – The following chemicals are subject to the reporting requirements of Section 313 of Title III, Superfund Amendments and Reauthorization Act of 1986 and 40 CFR 372:

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

CERCLA - This product contains the following chemicals which have a reportable quantity (RQ) under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA):

Acetic acid (CAS #64-19-7), RQ 5,000 lbs
 Ethylene Oxide (CAS #75-21-8), RQ 10 lbs
 Sodium hydroxide (CAS# 1310-73-2), RQ 100 lbs
 1,4-Dioxane (CAS #123-91-1), RQ 100 lbs
 Acetaldehyde (Case #75-07-0), RQ 1000 lbs

California Proposition 65: This product can expose you to chemicals including Silica (CAS #7631-86-9), Acetaldehyde (CAS #75-07-0), Ethylene Oxide (CAS #75-21-8), 1,4-Dioxane (CAS #123-91-1), which is/are known to the State of California to cause cancer, and This product can expose you to chemicals including (Ethylene Oxide (CAS # 75-21-8), which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

U.S. State Worker and Community Right-To-Know (RTK) Information (CT, IL, MA, MN, NH, NJ, PA, RI):

Chemical Name	CAS #	State(s)

Canadian Domestic Substances List:

Chemical Name	CAS #
Listed on inventory	

TRACE ELEMENTS: Trace ingredients (if any) are present in < 1% concentration (< 0.1% for potential carcinogens, reproductive toxins, respiratory tract mutagens, and sensitizers). None of the trace ingredients contribute a significant additional hazard at the concentrations that may be present in this product. All pertinent hazard information has been provided in this document, per the requirements of the Federal Occupational Safety and Health Administration Standard (29 CFR 1910.1200), US State equivalents, and Canadian Hazardous Material Identification System Standard (CPR 4).

WHMIS Classification: Not determined

SECTION 16—OTHER

Disclaimer: The information presented herein is based on available data from reliable sources and is correct to the best of WinField Solutions' knowledge. WinField Solutions, LLC makes no warranty, express nor implied, regarding the accuracy of the data or the results obtained from the use of this product. Nothing herein may be construed as recommending any practice or any product in violation of any law or regulations. The user is solely responsible for determining the suitability of any material or product for a specific purpose and for adopting any appropriate safety precautions. We disclaim all liability for injury or damage stemming from any improper use of the material or product described herein.

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