


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

SECTION 1: IDENTIFICATION	
Product Name:	OPTIFY™ XX
Chemical Description:	Non-AMS Water Conditioner, Surfactant, and Drift Reduction Agent (DRA)
Recommended Uses:	Agricultural Adjuvant
Restrictions for Use:	See product label for 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	
EMERGENCY OVERVIEW: Yellow to light brown liquid with slight odor. Read all precautions of products being handled and follow the most restrictive language for all products to provide the safest work environment.	
POTENTIAL HEALTH EFFECTS: Eyes: Causes serious eye damage (Cat 1) Inhalation: May cause respiratory irritation	
Carcinogenicity	NTP: Not listed IARC: Not listed OSHA: Not listed
OSHA HCS 2012 CLASSIFICATION: Serious eye damage (Cat 1); STOT-Single exp (Cat 3)	
SIGNAL WORD: DANGER	
HAZARD STATEMENTS: - Causes serious eye damage - May cause respiratory irritation	
PRECAUTIONARY STATEMENTS:	
Prevention:	Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Wear eye protections/face protection.
Response:	IF IN EYES: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison control center or doctor for immediate treatment advice. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a poison control center or doctor for treatment advice if you feel unwell.
Storage:	Store in a well-ventilated place. Keep container tightly closed. Store locked up.
Disposal	Dispose of contents/container in accordance with Federal, State and local regulations.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS		
Ingredient	% (wt)	CAS Reg. #
Poly(oxy-1,2-ethanediyl), alpha-hydro-omega-hydroxy	>=20-<25%	25322-68-3
Proprietary blend	>=75-<80%	*
*Ingredients not specifically listed are non-hazardous and are considered to be confidential business information under 29 CFR 1910.1200(j).		
See Section 8 for exposure limits.		

SECTION 4: FIRST AID MEASURES	
General Advice:	Show this material safety data sheet to the doctor in attendance. First Responder needs to protect himself. Place affected apparel in a sealed bag for subsequent decontamination. <ul style="list-style-type: none"> - Risk of serious damage to eyes. - Skin contact may aggravate existing skin disease. - Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema, or bronchitis. <p>Notes to physician: Treat symptomatically. There is no specific antidote available. All treatments should be based on observed signs and symptoms of distress to the patient. Consideration should be made given to the possibility that overexposure to materials other than this product may have occurred.</p>
Inhalation:	Negligible or unlikely exposure pathways. Move to fresh air in case of accidental inhalation of vapors. Consult a physician if necessary.
Ingestion:	Do not induce vomiting without medical advice. Keep at rest. DO not leave victim unattended. If victim is conscious, rinse mouth with water. Do not give anything to drink. Do not give anything by mouth to an unconscious person. Seek medical advice.
Eyes:	Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek immediate medical advice.
Skin:	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Seek medical advice if irritation occurs. Wash contaminated clothing before reuse.

SECTION 5: FIRE FIGHTING MEASURES	
Suitable Extinguishing Media:	Water Spray, Foam, Carbon dioxide (CO ₂), Multipurpose powders.
Special Fire Fighting Procedures:	Wear NIOSH/MSHA approved self-contained breathing apparatus and full bunker gear. Dike area to prevent runoff and contamination of water sources. Dispose of fire control water later. Avoid breathing vapors; keep upwind. Under fire conditions, this product will burn.
Hazardous Combustion Products:	On combustion or on thermal decomposition (pyrolysis), releases: Carbon oxides, Nitrogen oxides (NO _x), Chlorine compounds.
Unusual Fire and Explosion Hazards:	DO not use a solid water stream as it may scatter and spread fire.
Unsuitable Extinguishing Media:	High volume water jet (frothing possible)

SECTION 6: ACCIDENTAL RELEASE MEASURES	
Personal Precautions:	Wear suitable protective equipment. Refer to Section 8 for personal protective equipment to be worn during containment and clean-up of a spill involving this product.
Environmental Precautions:	Stop the leak. Turn leaking containers leak side up to prevent the escape of liquid. Contain the spilled material by diking. Do not flush into surface water or sanitary sewer system. Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems.
Methods for Containment/Recovery:	Stop leak if safe to do so. Contain spillage soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local/national regulations (see section 13). Shovel or sweep up. Keep in properly labeled containers.
Methods for Clean-up:	Wash nonrecoverable remainder with large amounts of water. Decontaminate tools, equipment and personal protective equipment in a segregated area.
Methods of Disposal:	Dispose of contents/container in accordance with Federal, State and local regulations. See the product label for further information pertaining to disposal.
Other Information:	Material can create slippery conditions.

SECTION 7: HANDLING AND STORAGE

Handling: Ethylene oxide may collect in container head space. Provide adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Avoid inhalation of vapor or mist. Avoid contact with skin or eyes.

Storage: Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems. Stable under normal conditions. Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Keep away from open flames, hot surfaces and sources of ignition. Keep away from incompatible materials to be indicated by the manufacturer. See SECTION 10: Stability-Reactivity to list of incompatible materials; keep away from these materials.

Minimum Storage Temperature: <104°F (<40°C) Storage above 32°F is recommended. However, if product is allowed to freeze, warm and agitate (recirculate) prior to use.

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

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**Exposure Guidelines**

Component:	OSHA PEL	ACGIH TLV	NIOSH REL
Poly(oxy-1,2-ethanediyl), alpha-hydro-omega-hydroxy	10 mg/m ³ (WEEL)		

Respiratory Protection: When respirators are required or if irritation occurs, select NIOSH/MSHA approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industrial recommendations. Use a respirator with an approved filter if a risk assessment indicates this is 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.

Protective Gloves: Neoprene gloves. Where there is a risk of contact with hands, use appropriate gloves. Gloves must be inspected prior to use. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Please observe the instructions regarding permeability and breakthrough time which 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 the contact time.

Eye Protection: Eye and face protection requirements will vary dependent upon the work environment conditions and material handling practices. Appropriate ANSI Z87 approved equipment should be selected for the particular use intended for this material. Eye contact should be prevented through the use of safety glasses with side shields. In case of contact through splashing, use a face shield.

Skin and Body Protection: Recommended preventative skin protection includes: Footwear protecting against chemicals, impervious clothing or a full protective suit. Choose body protection according to the amount and concentration of the dangerous substance at the workplace.

Other Protective Clothing or Equipment: Ensure that eyewash stations and safety showers are close to the workstation location. Emergency equipment immediately accessible, with instructions for use. Selection of 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. The protective equipment must be selected in accordance with current local regulations and in cooperation with the supplier of protective equipment.

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. Wash exposed skin promptly to remove accidental splashes or contact with material. The user is responsible for monitoring the working environment in accordance with local laws and regulations.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid	Specific Gravity (H₂O=1):	1.15-2 g/mL
Vapor Pressure (mm Hg):	No data available	Density (lbs/gallon):	9.7 (typical)
Vapor Density (Air=1):	No data available	Melting Point/Freezing Point:	No data available
Solubility in Water (wt %):	Miscible	Boiling Point/Range:	No data available
Viscosity:	No data available	pH:	5.0 – 7.0 (100%)

Appearance and odor:	Yellow to light brown viscous liquid, slight characteristic	Flash Point:	>200 F (93 C), closed cup, ANSI
-----------------------------	---	---------------------	---------------------------------

SECTION 10: STABILITY AND REACTIVITY

Reactivity:	No data available
Chemical Stability:	Stable under recommended storage conditions
Possibility of Hazardous Reactions:	Hazardous polymerization does not occur
Incompatible Materials:	Strong oxidizing agents, strong reducing agents
Hazardous Decomposition Products:	On combustion or on thermal decomposition (pyrolysis) releases: Carbon oxides (CO + CO ₂), Nitrogen oxides (NO _x), Chlorinated compounds

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

Eye Effects:	Risk of serious damage to eyes
Skin Effects:	Not classified as harmful by contact with skin*
Acute Inhalation Effects:	Not classified as harmful by inhalation*
Acute Oral Effects:	Not classified as harmful if swallowed*
Skin Sensitization:	Not classified as sensitizing by skin contact*
Specific Target Organ Toxicity:	Not determined

CHRONIC TOXICITY

Chronic Effects:	Not determined
Carcinogenicity:	Product is not considered to be carcinogenic*
Mutagenicity:	Product is not considered to be genotoxic*
Teratogenicity:	Product is not considered to be teratogenic*
Reproductive Toxicity:	Product is not considered to affect fertility*

STOT – Single Exposure	Routes of exposure: Inhalation Target organs: Respiratory System The substance or mixture is classified as a specific target organ toxicant, single exposure, category 3 with respiratory tract irritation according to GHS criteria.
-------------------------------	---

STOT-Repeated Exposure:	The substance or mixture is not classified as a specific target organ toxicant, repeated exposure according to GHS criteria.
--------------------------------	--

POTENTIAL HEALTH EFFECTS:

- Causes serious eye damage
- May cause respiratory irritation

SECTION 12: ECOLOGICAL INFORMATION

ENVIRONMENTAL SUMMARY:

ECOTOXICITY DATA:

Fish Acute and Prolonged Toxicity:	This product has not been tested
Aquatic Invertebrate Acute Toxicity:	This product has not been tested
Aquatic Plant Toxicity:	This product has not been tested
- Short term (acute) aquatic hazard	This product has no known ecotoxicological effects*
- Long term (chronic) aquatic hazard	This product has no known ecotoxicological effects*
Bird Acute and Prolonged Toxicity:	This product has not been tested
Honeybee Toxicity:	This product has not been tested

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: Dispose of in accordance with applicable Federal, state and local laws and regulations. Chemical additions, processing or otherwise altering this material may make the waste management information presented in this SDS incomplete, inaccurate, or otherwise inappropriate. Please be advised that State and local requirements for waste disposal may be more restrictive or otherwise different from Federal laws and regulations. Consult State and local regulations regarding the proper disposal of this material. See the product label for further information pertaining to disposal considerations.

Container: Rinse with an appropriate solvent. Dispose of in accordance with Federal, State and local regulations. See product label for further disposal considerations.

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
IMDG: (Sea)	Not determined
IATA: (Air)	Not determined
TDG: (Canada)	Not determined. Product not offered for sale in Canada.

SECTION 15—REGULATORY INFORMATION

TSCA Inventory: Listed on inventory

SARA Title III Information:

Section 302 - Extremely hazardous substances: Ethylene Oxide (75-21-8, RQ: 10lbs)
Ethylene Oxide (75-21-8, RQ: 10lbs)

Section 304 – Emergency Release notification:

Section 311/312 – Hazard Categories: Serious eye damage or eye irritation, Specific target organ toxicity (single or repeated exposure)

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 product 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):

- Ethylene Oxide, CAS # 75-21-8, REQ: 10 lbs
- Sodium hydroxide (NA(OH)), CAS # 1310-73-2, RQ: 1000 lbs
- 1,4-Dioxane, CAS # 123-91-1, RQ: 100 lbs
- Acetaldehyde, CAS # 75-07-1, RQ: 1000 lbs

California Proposition 65:

This product can expose you to chemicals including Quartz (SiO₂) (CAS #14808-60-7), 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 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)
NA		

Canadian Domestic Substances List:

Chemical Name	CAS #
NA	

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.

Revision Date: July 20, 2020, New

Supersedes document dated: None

Sections Revised: New

*According to the available data on the components. According to the classification criteria for mixtures, Unpublished reports and/or published reports.