


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

SECTION 1: IDENTIFICATION	
Product Name:	OPTIFY™ A20
Chemical Description:	AMS Water Conditioner and Surfactant
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: Clear with brown/light yellow color with a mild 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: EYE: Causes serious eye irritation. SKIN: Causes mild skin irritation. INGESTION: May be harmful if swallowed.	
Carcinogenicity	NTP: Not listed IARC: Not listed OSHA: Not listed
SIGNAL WORD: WARNING	
HAZARD STATEMENTS: KEEP OUT OF REACH OF CHILDREN H303: May be harmful if swallowed. (Acute tox, Oral – Cat 5) H313: May be harmful in contact with skin. (Acute tox, Dermal – Cat 5) H316: Causes Mild skin irritation (Skin Irritation, Cat 3) H319: Causes serious eye irritation. (Eye Irritation, Cat 2A)	
PRECAUTIONARY STATEMENTS: Prevention: P264: Wash hands, face and other affected areas thoroughly after handling. P280: Wear protective gloves/eye/face protection. Response: P312: Call a POISON CENTER or doctor/physician if you feel unwell. P332+P313: If skin irritation occurs, Get medical advice/attention. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313: If eye irritation persists, Get medical advice/attention.	

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	% (wt)	CAS Reg. #
Ammonium Sulfate, Polyols, alkyl polyoxyethylene sulfate and aryl sulfonate	48	Mixture
Constituents ineffective as spray adjuvants	52	Mixture
*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

Inhalation:	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth to mouth if possible. Call a poison control center or doctor for further treatment advice.
Ingestion:	Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by a poison control center or doctor. Have person sip a glass of water if able to swallow. Do not give anything by mouth to an unconscious person.
Eyes:	Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes then continue rinsing eyes. Call a poison control center or doctor for treatment advice.
Skin:	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
Other:	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 other than this product may have occurred. Have the product container or label with you when calling a poison control center or doctor, or going in for treatment. For emergency medical assistance call 1-877-424-7452 .

SECTION 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Foam, dry chemical, carbon dioxide, water spray or fog.
Special Fire Fighting Procedures: As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear. Evacuate area and fight fire upwind a safe distance to avoid hazardous vapors and decomposition products. Fire exposed containers can build up pressure and should be kept cool with water spray if possible. Explosive vapor could form from ruptured containers. Dike and collect water used to fight fire to prevent environmental damage due to runoff. Foam or dry chemical fire extinguishing systems are preferred to prevent environmental damage from excessive water runoff.
Hazardous Combustion Products: Normal combustion forms carbon dioxide, water vapor and may produce oxides of carbon, nitrogen and phosphorous.
Unusual Fire and Explosion Hazards: No specific explosion hazards are identified or expected. Always fight fire with the implication that other volatile substances may be present.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Always wear proper protective equipment when handling this product
Small Spill: Pick up spilled liquid with absorbent material and sweep up for disposal. Place it and damaged unusable containers in a landfill appropriate for non-hazardous chemical waste. Check local, state and federal regulations for proper disposal.
Environmental Precautions: Water Spill: Do not contaminate any body of water. Land Spill: Avoid runoff onto any adjacent land.
Special Protective Equipment: Always wear proper protective equipment when handling this product

SECTION 7: HANDLING AND STORAGE

Handling: Wash hands after handling, before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.
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SECTION 7: HANDLING AND STORAGE-Continued

Storage: Store in a cool, dry place. Keep containers tightly closed. Store in original container. Do not allow waster or other chemicals to be introduced into the contents of container. So not contaminate water sources with equipment wash water, spray disposal waste or by the cleaning of equipment. Do not store near feed or food products. Keep away from food, feed or other products, especially oxidizing agents, to prevent contamination. Do not allow product to freeze.

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

Component:	OSHA PEL	ACGIH TLV	NIOSH REL
NA			

Respiratory Protection:

Engineering Controls: When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

Skin Protection: Wear Chemical-resistant gloves such as Viton or barrier laminate, Coveralls over long-sleeved shirt, long pants and chemical resistant footwear plus socks. Chemical resistant headgear for overhead exposure. When exposed to product concentrate, wear a chemical resistant apron.

Eye/Face Protection: Wear chemical goggles or shielded safety glasses (ANSI Z87.1 or approved equivalent) when handling and mixing product. Contact lenses should not be worn when working with chemicals.

Respiratory: Work in a well-ventilated area; exposure to airborne contaminants is not expected to cause concern.

Other Protective Clothing or Equipment: Avoid contact with skin, eyes, and clothing. Avoid breathing vapors. Wash thoroughly after handling product. Eye wash fountains and drench showers should be located within 100 feet or a 10 second walk from the work area per ANSI Z358.1-1990

Eye protection, long sleeved shirt and long pants, shoes plus socks and chemical resistant gloves. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid, viscous	Specific Gravity (H₂O=1):	1.18 to 1.22 g/mL
Vapor Pressure (mm Hg):	NA	Density (lbs/gallon):	9.84-10.17 lbs/gal
Vapor Density (Air=1):	NA	Melting Point/Freezing Point:	< 32°F
Solubility in Water (wt %):	Miscible	Boiling Point/Range:	NA
Viscosity:	NA	pH:	7.46
Appearance and odor:	Clear, brown to light yellow, mild odor	Flash Point:	(200°F) PMCC

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability: Stable

Hazardous Polymerization: No, polymerization will not occur.

Conditions to Avoid: None known

Incompatible Materials: Strong acids and oxidizing agents

Hazardous Decomposition Products: Incomplete combustion may yield carbon monoxide, carbon dioxide, and/or ammonia which may be harmful.

SECTION 11: TOXICOLOGICAL INFORMATION**ACUTE TOXICITY**

Eye Effects:	Causes eye irritation
Skin Effects:	May cause mild skin irritation (Acute Dermal: LD ₅₀ > 200 mg/kg)
Acute Inhalation Effects:	Not determined
Acute Oral Effects:	Acute Oral: LD ₅₀ >2000 mg/kg
Specific Target Organ	Not determined
Toxicity:	
Carcinogenicity:	Not listed in OSHA, NTP, IARC or ACGIH
Sensitivity:	Not a contact sensitizer

CHRONIC TOXICITY

Chronic Effects:	Not determined
Carcinogenicity:	Not determined
Mutagenicity:	Not determined
Teratogenicity:	Not determined
Reproductive Toxicity:	Not determined

SECTION 12: ECOLOGICAL INFORMATION

ENVIRONMENTAL SUMMARY: Ecotoxicity information is not available. This product is not for use in aquatic settings.

ECOTOXICITY DATA:

Fish Acute and Prolonged Toxicity:	Not Available
Aquatic Invertebrate Acute Toxicity:	Not Available
Aquatic Plant Toxicity:	Not Available
Bird Acute and Prolonged Toxicity:	Not Available
Honeybee Toxicity:	Not Available

ENVIRONMENTAL EFFECTS:

Soil Absorption/Mobility:	Not Available
Persistence and degradability:	Not Available
Bio accumulative Potential:	Not Available
Other adverse effects:	Not Available

SECTION 13: DISPOSAL CONSIDERATIONS

Waste: Dispose of in accordance with applicable Federal, state and local laws and regulations.

Container: Do not reuse product containers. Triple rinse (or equivalent), then offer for recycling at an ACRC site (go to <http://www.acrecycle.org/> for locations) or by reconditioning, or puncture and dispose of in a sanitary landfill or by other procedures approved by local, state, and federal regulations.

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 by DOT
IMDG: (Sea)	Not determined
IATA: (Air)	Not determined
TDG: (Canada)	Not determined

SECTION 15—REGULATORY INFORMATION

TSCA Inventory: All components are listed on the TSCA Inventory

SARA Title III Information:

Section 302 - Extremely hazardous substances: None listed

Section 311/312 – Hazard Categories: Immediate (Acute) Yes

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:
None listed

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

None listed

California Proposition 65: This product does not contain any ingredients known to the State of California to cause cancer and/or reproductive harm.

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

Chemical Name	CAS #	State(s)
Ammonium sulfate	7783-20-2	MA, NJ, PA, RI
Propylene glycol	57-55-6	MA, NJ, PA, RI

Canadian Domestic Substances List:

Chemical Name	CAS #
Not determined	

WHMIS Classification: This product is not approved for use in Canada. WHMIS Classification is 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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Supersedes document dated: None

Sections Revised: New