

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™ D30
Chemical Description:	AMS Water Conditioner, Surfactant, and Drift Control Agent
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: Blue liquid with a slight odor. Read all precautions of product being handled and follow the most restrictive language for all products to provide the safest work environment.	
POTENTIAL HEALTH EFFECTS: Eyes: Serious eye damage/irritation: Cat 2b Skin: Skin Corrosion/Irritation: Cat 2 Ingestion: Acute Toxicity, Oral: Cat 4	
Carcinogenicity	NTP: Not listed IARC: Not listed OSHA: Not listed
SIGNAL WORD: WARNING	
HAZARD STATEMENTS: KEEP OUT OF REACH OF CHILDREN READ LABEL FOR USE H302: Harmful if swallowed H315: Causes skin irritation H320: Causes eye irritation	
	
PRECAUTIONARY STATEMENTS: Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. In case of inadequate ventilation, wear respiratory protection. Avoid release into the environment.	

Response:	<p>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Get immediate medical advice/attention.</p> <p>IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Treat symptomatically.</p> <p>IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call POISON CENTER or doctor if you feel unwell.</p> <p>IF ON SKIN OR CLOTHING: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.</p>
Storage:	Store in a well-ventilated place. Keep container tightly closed. Store locked up.
Disposal	Dispose of contents/container in accordance with your local or area regulatory authorities.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	% (wt)	CAS Reg. #
Ammonium Sulfate	34%	7783-20-2
Defoamer, surfactant, drift reduction solutions*	6.25%	Proprietary
Inert Ingredients*	59.75%	Proprietary

*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

	Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also call CHEMTREC at 800-424-9300 for emergency medical treatment information.
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:	Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
Eyes:	Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
Skin:	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.

SECTION 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media:	Water Spray, Foam solution, CO ₂ , dry chemical.
Special Fire Fighting Procedures:	Keep people away. Isolate fire and deny unnecessary entry. Evacuate the area and fight the fire from upwind at a safe distance to avoid hazardous vapors or decomposition products. Cool containers with water if possible. Dike and collect fire-extinguishing water to prevent environmental damage and excessive waste runoff. Wear positive-pressure self-contained breathing apparatus (SCBA) and protective firefighting clothing (includes firefighting helmet, coat, trousers, boots and gloves). Use full face shield and operate in positive pressure mode. Avoid contact with this material during firefighting operations. If contact is likely, change to full chemical resistant firefighting clothing with self-contained breathing apparatus. If this is not available, wear full chemical resistant clothing with SCBA and fight fire from a remote location. For protective equipment in post-fire or non-fire clean up situations, refer to the relevant sections.
Hazardous Combustion Products:	Oxides of nitrogen and sulfur
Unusual Fire and Explosion Hazards:	NA

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Refer to Section 8 for personal protective equipment to be worn during containment and clean-up of a spill involving this product. Isolate area. Keep unnecessary and unprotected personnel from entering the area. Refer to SECTION 7: HANDLING AND STORAGE, for additional precautionary measures. Ventilate area of leak or spill. Use appropriate safety equipment. For additional information, refer to SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION.
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Environmental Precautions: Prevent from entering soil, ditches, sewers, waterways and/or groundwater. Refer to SECTION 12: ECOLOGICAL INFORMATION.

Methods for Clean-up: Control the spill at its source.

Small spills: Stop the flow of material, if this is without risk. Apply suitable absorbent and sweep up. Collect in suitable and properly labeled containers. Prevent entry into waterways, sewers, basements or confined areas.

Large spills: Stop the flow of material, if this is without risk. Apply suitable absorbent and sweep up. Collect in suitable and properly labeled containers. Contact Drexel Chemical Company for clean-up assistance. Refer to SECTION 13: DISPOSAL CONSIDERATIONS, for additional information. Prevent entry into waterways, sewers, basements or confined areas.

SECTION 7: HANDLING AND STORAGE

KEEP OUT OF REACH OF CHILDREN

Handling: Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Do not swallow. Avoid breathing dust. Avoid breathing vapors. Use with adequate ventilation. Wear chemical protective equipment when handling. Wear long-sleeved shirt, long pants and shoes with socks when handling. Keep away from heat, sparks and flame. Refer to SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION.

Storage: Store in a cool, dry, ventilated and secure area designated specifically for pesticides and away from heat sources. Keep in original containers and keep containers closed when not in use. Do not store in excessive heat. Do not store near children, food, foodstuffs, drugs or potable water supplies.

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

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

THIS SECTION IS FOR MANUFACTURING, COMMERCIAL BLENDING AND PACKAGING WORKERS. APPLICATORS AND HANDLERS SHOULD REFER TO THE PRODUCT LABEL FOR THE PROPER PERSONAL PROTECTIVE EQUIPMENT AND CLOTHING

Exposure Guidelines

Component:	OSHA PEL	ACGIH TLV	NIOSH REL
Ammonium sulfate, defoamer, surfactant, drift reduction solution	N/A	5mg/m ³	

Respiratory Protection: Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, use an approved respirator. Selection of air-purifying or positive-pressure supplied-air will depend on the specific operation and the potential airborne concentration of the material. When handling in enclosed areas, when large quantities of dusts are generated or prolonged exposure is possible in excess of the TLV, use a respirator with either an organic vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C) or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G).

Engineering Controls: **Local Exhaust:** Investigate engineering techniques to reduce exposures. When handling this product proper ventilation is required to maintain exposure below the TLV. Ventilate all transport vehicles prior to unloading. Facilities storing or utilizing this material should be equipped with an eyewash facility / station and safety shower. Use engineering controls to maintain airborne level below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, use only with adequate ventilation. 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: Use gloves chemically resistant to this material. Examples of preferred glove barrier materials include: Neoprene, Nitrile/butadiene rubber ("nitrile" or "NBR") or Viton, Polyvinyl chloride ("PVC" or "vinyl"). The selection of gloves for a particular application and duration of use in the workplace should also be taken into account all relevant workplace factors such as, but not limited to: other chemicals which may be handled, physical requirements (cut/ puncture protection, dexterity, thermal protection), potential body reactions to gloves materials, as well as the instructions / specs provided by the supplier of gloves.

Eye/Face Protection: Eye contact should be avoided through the use of chemical safety glasses, goggles, or a face shield selected in regard to exposure potential. Wear chemical splash goggles to prevent vapors or mists from entering the eyes. Where there is potential for eye contact have eye flushing equipment available. Safety glasses with side-shields.

Ingestion: Avoid ingestion of even very small amounts; do not consume or store food or tobacco in the work area; wash hands and face thoroughly with soap and water before smoking or eating. Avoid getting wash water in eyes.

Skin Protection: Use protective clothing chemically resistant to this material. Selection of specific items such as face shield, boots, apron, or full body suit will depend on the task. Safety shower should be located in immediate work area. Remove contaminated clothing immediately, wash skin area with soap and water, and launder clothing before reuse or dispose of properly. Items which cannot be decontaminated, such as shoes, belts and watchbands, should be removed and disposed of properly.

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	Specific Gravity (H₂O=1):	1.2
Vapor Pressure (mm Hg):	Not available	Density (lbs/gallon):	10 lbs/gal
Vapor Density (Air=1):	Not available	Melting Point/Freezing Point:	<15°F
Solubility in Water (wt %):	Miscible	Boiling Point/Range:	212°F
Viscosity:	Not available	pH:	6.0 – 7.5
Appearance and odor:	Blue, slight odor	Flash Point:	>200°F

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Thermally stable at typical use temperatures and in closed containers.

Chemical Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Will not occur

Conditions to Avoid: Avoid extreme temperatures and open flames.

Incompatible Materials: Avoid contact with strong oxidizers.

Hazardous Decomposition Products: Oxides of nitrogen and sulfur

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY Potential routes of exposure/health effects: Skin contact, Eye contact, Ingestion

Eye irritation: (Rabbit): Eye Irritation

Acute Dermal: LD₅₀ (Rat): 3g/kg

Skin Irritation: (Rabbit): Skin Irritation

Skin Sensitization: (Guinea Pig): No data available

Acute Inhalation Effects: LC₅₀ (Rat): Harmful if swallowed or inhaled

Acute Oral Effects: LD₅₀ (Rat): 5,000 mg/kg

Specific Target Organ Toxicity: **Single Exposure:** Not determined

Repeated Exposure: Not determined

CHRONIC TOXICITY

Chronic Effects: No data available

Carcinogenicity: No data available

Mutagenicity: Non-mutagenic for bacterial and/or yeast

Teratogenicity: No data available

Reproductive Toxicity: No data available

Developmental Toxicity: No data available

POTENTIAL HEALTH EFFECTS:

Harmful if swallowed

Causes skin irritation

Causes eye irritation

SECTION 12: ECOLOGICAL INFORMATION

ENVIRONMENTAL SUMMARY:

ECOTOXICITY DATA:

Aquatic Toxicity::	Fish, LC₅₀ 96 hour - 1	5.2-8.2 mg/l
	Fish, LC₅₀ 96 hour - 2	32.2-41.96 mg/l
	Daphnia magna, LC₅₀ 48 hour - 1	423 mg/l
	Daphnia magna, LC₅₀ 48 hour - 2	14mg/ l
Arthropod Toxicity:	Bees, Acute LD50	No data available

Bird Toxicity:	Mallard Duck, LD₅₀	No data available
	Bobwhite Quail, LD₅₀	No data available
Algal Toxicity:	Algae, LC₅₀ 96 hour	No data available
Soil Organism Toxicity:	Earthwork acute 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:	Do not contaminate water supplies, lakes, streams, ponds or drains with this product.	

SECTION 13: DISPOSAL CONSIDERATIONS

Waste: Dispose of in accordance with applicable Federal, state and local laws and regulations.
Container: Empty containers must be handled properly due to product residue.
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

Freight description: Agricultural Spray Adjuvant, Liquid, N.O.S.
 ERG Guide No. 171

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

SECTION 15—REGULATORY INFORMATION

TSCA Inventory: All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.30

SARA Title III Information:
Section 302 - Extremely hazardous substances: Not known to contain any extremely hazardous substance
Section 311/312 – Hazard Categories: Immediate (Acute) Health Hazard: 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:
 Ammonium Sulfate, 34.0%

CERCLA - This product contains the following chemicals which have a reportable quantity (RQ) under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA):
 Not listed

California Proposition 65: Ammonium sulfate, this product does not contain any chemicals known to the State of California to cause cancer, birth defects or any other 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

Canadian Domestic Substances List:

Chemical Name	CAS #
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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