


NFPA HAZARD RATING				U.S. TRANSPORT SUMMARY	
0	Least				
1	Slight	1	Health		Not regulated as a hazardous material for ground transport. (See Section 14 for additional information)
2	Moderate	0	Flammability		
3	High	0	Reactivity		
4	Severe				

SECTION 1: IDENTIFICATION	
Product Name:	Rush®
EPA Registration #:	Exempt
Product ID/Unity #:	10133460, 10133568, 10133674, 1413068, 1415755
Common Name:	Agricultural Adjuvant – water conditioning agent
Chemical Description:	Proprietary blend ammonium sulfate, proprietary buffer, polyacrylamide solution, and antifoaming agents
Recommended Uses:	Agricultural Adjuvant. See product label for complete list of recommended uses and use sites.
Restrictions for Use:	See product label for information regarding restrictions on the use of this product.
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, slightly red liquid. Causes severe eye and skin irritation.	
POTENTIAL HEALTH EFFECTS:	
Eyes: Causes severe eye irritation with the potential for lasting damage.	
Skin: Causes severe skin irritation with the potential for burns.	
Inhalation: May cause mild respiratory irritation and coughing.	
Ingestion: Not anticipated to be harmful if swallowed, however gastric upset may occur.	
Preexisting Conditions: Pre-existing respiratory conditions may be aggravated by exposure to mists.	
Chronic Health Effects: None known.	
Carcinogenicity	NTP: Not listed IARC: Not listed OSHA: Not listed
OSHA HCS 2012 CLASSIFICATION: Eye Irritant Category 1; Skin Irritant Category 1	
SIGNAL WORD: DANGER	
HAZARD STATEMENTS: Causes severe skin burns and eye damage.	
	
Percent of product with unknown toxicity: 0%	
PRECAUTIONARY STATEMENTS:	
Prevention: Do not breathe mist. Wash hands thoroughly after use. Wear protective gloves, protective clothing, eye protection, and face protection. See Section 8 for additional information.	

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Response: **If swallowed:** Rinse mouth. Do NOT induce vomiting. **If on skin (or hair):** Take off immediately all contaminated clothing. Rinse skin with water/shower. **If inhaled:** Remove person to fresh air and keep comfortable for breathing. Immediately call a poison control center (1-877-424-7452) or doctor for treatment advice. **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 (1-877-424-7452) or doctor for treatment advice.

Storage: 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. #
Proprietary Blend of water conditioners and buffers	88.0%	*
*Ingredients not specifically listed are non-hazardous and/or 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:	Remove person from contaminated area to fresh air and assist breathing as needed. Seek medical attention if irritation occurs.
Ingestion:	Seek medical attention or call a poison control center. 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:	Flush eyes with clean water for at least 15 minutes. Lift eyelids to facilitate irrigation. If present, remove contact lenses after 5 minutes and continue rinsing. Seek medical attention immediately.
Skin:	Remove contaminated clothing and wash before re-using them. Wash exposed skin with soap and water. Seek medical attention immediately.

SECTION 5: FIRE FIGHTING MEASURES	
Suitable Extinguishing Media:	Use dry chemical powder for small fires and water fog or foam for large fires. Water may be ineffective in firefighting. Use water spray/fog for cooling containers and firefighters.
Unsuitable Extinguishing Media:	Water jet.
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.
Hazardous Combustion Products:	Incomplete combustion may yield carbon oxides.
Unusual Fire and Explosion Hazards:	None known.

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.
Environmental Precautions:	Minimize runoff into nearby water sources.
Methods for Containment:	Contain spilled liquid by diking area with sand or earth.
Methods for Clean-up:	Cover contained spill with an inert absorbent material such as sand, vermiculite or other appropriate material. Vacuum, scoop or sweep up material and place in a container for disposal. Do not place spilled material back in original container.
Other Information:	No other information available.

SECTION 7: HANDLING AND STORAGE

Handling: Ensure adequate ventilation. Immediately clean up spills that occur during handling. Keep containers closed when not in use. Practice good hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

Storage: Store in a secured, cool, dry area away from children, feed and food products in an area away from incompatible substances. Protect packaging from physical damage. Protect from exposure to fire. Maintain product above minimum storage temperature. To avoid product degradation and equipment corrosion, do not use iron, copper or aluminum containers or equipment.

Minimum Storage Temperature: 32°F

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
No components have exposure guidelines.			

No components have exposure guidelines.

Respiratory Protection: Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear an OSHA/NIOSH-approved respirator.

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: Wear chemically protective gloves to prevent exposure to the skin.

Eye Protection: To avoid contact with eyes, wear chemical goggles or face shield with safety glasses. Contact lenses are not eye protective devices. An emergency eyewash or water supply should be readily accessible to the work area.

Other Protective Clothing or Equipment: Wear long-sleeve shirt, long pants and shoes plus socks to prevent prolonged or repeated skin contact.

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):	1.17(typical)
Vapor Pressure (mm Hg):	Negligible	Density (lbs/gallon):	9.8 lbs/gal (typical)
Vapor Density (Air=1):	Negligible	Melting Point/Freezing Point:	Not determined
Solubility in Water (wt %):	Soluble	Boiling Point/Range:	Not determined
Viscosity:	Not determined	pH:	4.5 – 5.5
Appearance and odor:	Clear, slightly red liquid	Flash Point:	>200°F

SECTION 10: STABILITY AND REACTIVITY

Reactivity: None known.

Chemical Stability: Product is stable at ambient temperature and pressure, under normal storage and handling.

Possibility of Hazardous Reactions: None known.

Conditions to Avoid: Excessive temperatures

Incompatible Materials: None known

Hazardous Decomposition Products: Incomplete combustion may yield carbon oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY
Eye Effects: Based upon component data, severe eye irritation is expected with the potential for lasting damage.
Skin Effects: Based upon component data, severe skin irritation is expected with the potential for burns and skin damage. Estimated LD50 >5,000 mg/kg
Acute Inhalation Effects: Estimated LC50 >5.0 mg/L
Acute Oral Effects: Estimated LD50 >5,000 mg/kg
Specific Target Organ Toxicity: None known.

CHRONIC TOXICITY
Chronic Effects: Not anticipated to have chronic health effects due to exposure.
Carcinogenicity: None of the components of this product are known or suspected of having carcinogenic effects.
Mutagenicity: None of the components of this product are known or suspected of having mutagenic effects.
Teratogenicity: None of the components of this product are known or suspected of having teratogenic effects.
Reproductive Toxicity: None of the components of this product are known or suspected of having effects on the reproductive system.

POTENTIAL HEALTH EFFECTS:
Eyes: Causes severe eye irritation with the potential for lasting damage.
Skin: Causes severe skin irritation with the potential for burns.
Inhalation: May cause mild respiratory irritation and coughing.
Ingestion: Not anticipated to be harmful if swallowed, however gastric upset may occur.

SECTION 12: ECOLOGICAL INFORMATION

ENVIRONMENTAL SUMMARY: Not determined

ECOTOXICITY DATA:
Fish Acute and Prolonged Toxicity: Not determined
Aquatic Invertebrate Acute Toxicity: Not determined
Aquatic Plant Toxicity: Not determined
Bird Acute and Prolonged Toxicity: Not determined
Honeybee Toxicity: Not determined

ENVIRONMENTAL EFFECTS:
Soil Absorption/Mobility: Not determined
Persistence and degradability: Not determined
Bioaccumulative Potential: Not determined
Other adverse effects: None known

SECTION 13: DISPOSAL CONSIDERATIONS

Waste: Dispose of in accordance with applicable Federal, state and local laws and regulations.
Container: Triple rinse and recycle the container or dispose of in accordance with Federal, state and local laws and 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 the U.S. Department of Transportation as a hazardous substance.
IMDG:
(Sea) Not determined
IATA:
(Air) Not determined
TDG:
(Canada) Not determined

SECTION 15: REGULATORY INFORMATION

TSCA Inventory: It has not been determined if all components are listed on the TSCA inventory.

SARA Title III Information:

Section 302 - Extremely hazardous substances: Not determined

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

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:

Not determined

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

Not determined

California Proposition 65: It has not been determined if this product contains chemicals known to the state of California to cause cancer, birth defects or 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)
Not determined		

Not determined

Canadian Domestic Substances List: 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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Sections Revised: All