


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

SECTION 1: IDENTIFICATION	
Product Name:	Class Act® Ridion™
EPA Registration #:	Exempt
Product ID/Unity #:	Not available
Common Name:	Agricultural adjuvant
Chemical Description:	1,2,3-Propanetricarboxylic acid, 2-hydroxy-, trisodium salt, dehydrate, High fructose corn syrup, Alkyl polyglucoside, Monocarbamide dihydrogen sulfate
Recommended Uses:	Adjuvant – See product label for full directions for use.
Restrictions for Use:	See product label for any restrictions on use.
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: Transparent, amber liquid with mild bitter odor. May cause respiratory irritation. May be harmful if inhaled.			
POTENTIAL HEALTH EFFECTS:			
Eyes: Not anticipated to cause eye irritation.			
Skin: Brief contact may cause slight irritation. Prolonged contact, as with clothing wetted with material, may cause irritation and discomfort, seen as local redness.			
Inhalation: Vapors or mist may be irritating and cause discomfort in nose and throat, nasal discharge, and coughing. Prolonged overexposure may cause difficulty in breathing.			
Ingestion: May be harmful if swallowed.			
Preexisting Conditions: Preexisting respiratory conditions may be aggravated by exposure to mist.			
Chronic Health Effects: None known			
Carcinogenicity	NTP: Not listed	IARC: Not listed	OSHA: Not listed
OSHA HCS 2012 CLASSIFICATION: Acute Inhalation Toxicity Category 4; Specific Target Organ Toxicity – Single Exposure Category 3			
SIGNAL WORD: WARNING			
HAZARD STATEMENTS:			
Harmful if inhaled.			
May cause respiratory irritation.			
			
Percent of product with unknown toxicity: 0%			

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PRECAUTIONARY STATEMENTS:

Prevention: Avoid breathing mist, spray, or vapors. Use only outdoors in a well-ventilated area.
Response: **If inhaled:** Remove person to fresh air and keep comfortable for breathing. Call a poison control center (1-877-424-7452) 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. #
Proprietary blend of water conditioning agents and non-ionic surfactants	100.0%	N/A
*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 for treatment advice. Do not induce vomiting unless instructed 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 if irritation occurs.
Skin:	Remove contaminated clothing and wash before re-using. Flush skin with water and then wash with soap and water. Seek medical attention if irritation persists.

SECTION 5: FIRE FIGHTING MEASURES	
Suitable Extinguishing Media:	Water spray, dry chemical, foam or carbon dioxide (CO ₂); Use water spray to cool fire-exposed containers and to protect personnel.
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:	Thermal decomposition may yield carbon oxides, nitrogen oxides and sulfur oxides.
Unusual Fire and Explosion Hazards:	Closed containers may explode from vapor expansion in high heat. Containers adjacent to fire may be cooled by a stream of water.

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:	Do not allow spilled product to enter sewers or waterways.
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:	None known

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 cool, dry areas away from children, feed and food products and sources of heat or flame. Protect from freezing. Protect package from physical damage. Keep container closed when not in use.

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
Glycerol (CAS #56-81-5)	15 mg/m3 (total) TWA 5 mg/m3 (resp.) TWA	3 mg/m3 (respirable) TWA 10 mg/m3 (mist)	

Respiratory Protection: Inhalation of this product will cause irritation of the respiratory tract. When handling this product in areas which are not ventilated or where concentrations exceed established limits, wear a NIOSH approved air-purifying respirator with cartridges/canisters approved for general particulates.

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 chemical resistant gloves to prevent skin contact.

Eye Protection: To avoid contact with eyes, wear chemical goggles or full face shield and safety glasses. Contact lenses are not protective eye 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 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):	1.198 (typical)
Vapor Pressure (mm Hg):	Not determined	Density (lbs/gallon):	10.0 lbs/gallon (typical)
Vapor Density (Air=1):	Not determined	Melting Point/Freezing Point:	Not determined
Solubility in Water (wt %):	Not determined	Boiling Point/Range:	Not determined
Viscosity:	56.9 centipoise at 25°C (77°F)	pH (0.25%):	7.0 – 8.0
Appearance and odor:	Transparent, amber liquid with a mild bitter odor	Flash Point:	>231°F

SECTION 10: STABILITY AND REACTIVITY

Reactivity: None known

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

Possibility of Hazardous Reactions: Will not occur

Conditions to Avoid: Extreme heat/open flame/ sparks and other sources of ignition.

Incompatible Materials: Strong acids, strong bases and strong oxidizers

Hazardous Decomposition Products: Thermal decomposition may yield carbon oxides, nitrogen oxides and sulfur oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY	
Eye Effects:	An eye irritation study in rabbits elicited no corneal opacity, iritis, or conjunctivae redness or chemosis within a 72 hour period.
Skin Effects:	LD50 >5,050 mg/kg (albino rats). A single semi-occlusive application to intact rabbit skin for four hours elicited no erythema or edema within a 72 hour period.
Acute Inhalation Effects:	LC50 = 2.04 mg/L. Inhalation is anticipated to cause irritation of the respiratory tract.
Acute Oral Effects:	LD50 >5,000 mg/kg (albino rats)
Specific Target Organ Toxicity:	Respiratory tract
CHRONIC TOXICITY	
Chronic Effects:	None known
Carcinogenicity:	No component is known to have a carcinogenic effect.
Mutagenicity:	No component is known to have a mutagenic effect.
Teratogenicity:	No component is known to have a teratogenic effect.
Reproductive Toxicity:	No component is known to have an effect on the reproductive system.
POTENTIAL HEALTH EFFECTS:	
Eyes: Not anticipated to cause eye irritation.	
Skin: Brief contact may cause slight irritation. Prolonged contact, as with clothing wetted with material, may cause irritation and discomfort, seen as local redness.	
Inhalation: Vapors or mist may be irritating and cause discomfort in nose and throat, nasal discharge, and coughing. Prolonged overexposure may cause difficulty in breathing.	
Ingestion: May be harmful if swallowed.	

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:	Not determined

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)	This product is not regulated by the U.S. Department of Transportation as a hazardous material for ground shipment.
IMDG: (Sea)	Not determined
IATA: (Air)	Not determined
TDG: (Canada)	Not determined

SECTION 15: REGULATORY INFORMATION

TSCA Inventory: All ingredients are listed or exempt from listing on the TSCA inventory.

SARA Title III Information:

Section 302 - Extremely hazardous substances: None listed

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:

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)
Glycerol	56-81-5	NJ, PA

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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