


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

SECTION 1: IDENTIFICATION	
Product Name: Volt-Edge™, a VaporGrip® Xtra Agent Product ID/Unity #: 1711074, 1711075 Common Name: Volatility Reducing Agent Chemical Description: Volatility Reducing Agent Recommended Uses: Adjuvant – See product label for full directions for use Restrictions for Use: See product label for any potential 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	
POTENTIAL HEALTH EFFECTS: Eyes: Category 2A Skin: Category 2	
Carcinogenicity	NTP: Not listed IARC: Not listed OSHA: Not listed
OSHA HCS 2012 CLASSIFICATION: Skin Irritation-Category 2, Eye Irritation-Category 2	
SIGNAL WORD: WARNING	
HAZARD STATEMENTS: Causes skin irritation. Causes serious eye irritation.	
	
PRECAUTIONARY STATEMENTS: Prevention: Wear protective gloves/eye/face protection. Response: Wash thoroughly after handling. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs get medical advice/attention. Take off contaminated clothing and wash before use. Storage: See Section 7 Disposal: See Section 7	

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS Reg #	% (wt)
Potassium acetate	127-08-2	50
- Label components: Potassium Hydroxide/Ethanoic Acid 50%		
*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

General Advice:	When possible, have the product container or label with you when calling a poison control center or doctor or going in for treatment.
Inhalation:	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical advice from a poison control center or doctor.
Ingestion:	Rinse mouth thoroughly with water. Immediately offer water to drink. Never give anything by mouth to an unconscious person. Do NOT induce vomiting unless directed by medical personnel. If symptoms occur, get medical attention.
Eyes:	Immediately flush with plenty of water. Continue for at least 15 minutes. If easy to do, remove contact lenses. If there are persistent symptoms, obtain medical advice.
Skin:	Take off contaminated clothing, wristwatch, jewelry. Wash affected skin with plenty of water. Continue for at least 15 minutes. Wash clothes and clean shoes before re-use. If there are any persistent symptoms, obtain medical advice.
Treatment:	Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended.

SECTION 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media:	Water spray, alcohol-resistant foam, Dry chemical, Carbon Dioxide (CO ₂)
Unsuitable Extinguishing Media:	High volume 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. Equipment should be thoroughly decontaminated after use.
Hazardous Combustion Products:	Carbon monoxide (CO), Carbon dioxide (CO ₂), Nitrogen oxides (NO _x)
Unusual Fire and Explosion Hazards:	Minimize use of water to prevent environmental contamination. Environmental precautions: see Section 6. Product does not flash.

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. Keep unauthorized people away. Avoid contact with spilled product or contaminated surfaces.
Environmental Precautions:	Minimize spread. Contain spillage with sandbags or other means. If the product is accidentally spilled, do not allow to enter soil, Keep out of drains, sewers, ditches and water ways. Do not allow product to contact non-target plants. Do NOT contaminate water when disposing of rinse water.
Methods for Containment and Clean-up:	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Collect and transfer the product into a properly labelled and tightly closed container. Keep in suitable, closed containers for disposal. Clean contaminated floors and objects thoroughly, observing environmental regulations.
Other Information:	Refer to Section 13 for disposal of spilled material. Use handling recommendations in Section 7 and personal production recommendations in Section 8.

SECTION 7: HANDLING AND STORAGE

Good industrial practice in housekeeping and personal hygiene should be followed.	
Handling:	Do NOT taste or swallow. Avoid contact with eyes, skin and clothing. Ensure adequate ventilation, Avoid breathing vapor or mist. When using, do not eat, drink or smoke. Wash hands thoroughly with soap and water after handling or contact and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics. Remove and wash contaminated clothing before re-use. Thoroughly clean equipment after use. Keep working clothes separate. Garments that cannot be cleaned must be destroyed (burnt). Do not contaminate drains, sewers and water ways when disposing of equipment rinse water. Refer to Section 13 of this SDS for disposal of rinse water.

Storage: Keep out of reach of children. Store in original container. Store in a cool, dry place and in such a manner as to prevent cross contamination with other crop protections products, fertilizers, food and feed. Keep away from food, drink and animal feed. Keep only in the original container. Store in a place accessible by authorized persons only.

Minimum Storage Temperature: Store product at temperatures above -20C to prevent freezing. Protect from freezing.

Other Precautions: Do not store near acids. Keep away from food, drink, and animal feedings. 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
Potassium hydroxide/Ethanoic acid	No specific occupational exposure limit has been established.		
Water	No specific occupational exposure limit has been established.		

Respiratory Protection: If airborne exposure is excessive: Wear respirator. Full facepiece / hood / helmet respirator replaces need for chemical goggles.

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. Have eyewash facilities immediately available at locations where eye contact can occur.

Protective Gloves: Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific location conditions under which the product is used, such as the danger of cuts, abrasions, and the contact time. Wear chemical resistant gloves (barrier laminate, butyl rubber, nitrile rubber, or Viton). Wash gloves when contaminated. Dispose of when contaminated inside, when perforated or when contamination on the outside cannot be removed. Wash hands frequently and always before eating, drinking, smoking and using the toilet.

Eye Protection: Use tightly sealed goggles and face protection. If there is potential for contact, wear chemical goggles.

Other Protective Clothing or Equipment: When recommended, consult manufacturer of personal protective equipment for the appropriate type of equipment for a given application. If there is significant potential for contact: wear face shield. Wear chemical resistant clothing/footwear. Wear long-sleeved shirt and long pants, and shoes plus socks.

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.

General protective measures: Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid water. Keep and wash PPE separately from other laundry.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid	Specific Gravity (H₂O=1):	Not determined
Vapor Pressure (mm Hg):	No significant volatility, aqueous solution.	Density:	ca. 1.27g/cm ³ (g/ml) (20°C)
Vapor Density (Air=1):	No data	Melting Point/Freezing Point:	Not applicable
Solubility in Water (wt %):	No data	Boiling Point/Range:	No data
Viscosity:	No data	pH:	7.5-8.5 (100%)(23° C)
Appearance and odor:	Colorless to light yellow, sour odor	Flash Point:	Does not flash

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability: Stable under recommended storage conditions.

Thermal decomposition: Stable under normal conditions

Possibility of hazardous reactions: Reacts with galvanized steel or unlined mild steel to product hydrogen, a highly flammable gas that could explode.

Conditions to Avoid: Extremes of temperature and direct sunlight.

Incompatible Materials: Galvanized steel, Mild Steel

Hazardous Decomposition Products: No decomposition products expected under normal conditions of use.

SECTION 11: TOXICOLOGICAL INFORMATION

Likely routes of exposure: skin contact, eye contact

ACUTE TOXICITY

Eye Effects, short term: Causes serious eye irritation.

Skin Effects, short term: Causes skin irritation

Acute Inhalation Effects: Not expected to produce significant adverse effects when recommended use instructions are followed.

Acute Oral Effects: Not expected to produce significant adverse effects when recommended use instructions are followed.

Specific Target Organ Toxicity: Not determined

CHRONIC TOXICITY

Chronic Effects: Not determined

Carcinogenicity: Not determined

Mutagenicity: Not determined

Teratogenicity: Not determined

Reproductive Toxicity: Not determined

POTENTIAL HEALTH EFFECTS:

Eyes: Category 2A; cause serious eye irritation.

Skin: Category 2; causes skin irritation

Inhalation: Not expected to produce significant adverse effects when recommended use instructions are followed.

Ingestion: Not expected to produce significant adverse effects when recommended use instructions are followed.

SECTION 12: ECOLOGICAL INFORMATION

ENVIRONMENTAL SUMMARY:

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

Environmental Precautions: Apply this product as specified on the label. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water. Retain and dispose of contaminated wash water.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste: Dispose of in accordance with applicable Federal, state and local laws and regulations. Keep out of drains, sewers, ditches and water ways. Recycle if appropriate facilities/equipment available. Burn in special, controlled high temperature incinerator.

Container: See the individual container label for disposal information. Emptied containers retain vapor and product residue. Observe all labeled safeguards until container is cleaned, reconditioned, or destroyed. Empty packaging completely. Triple or pressure rinse empty containers. Do NOT contaminate water when disposing of rinse waters. Ensure packaging cannot be reused. Do NOT re-use containers. Puncture container to avoid re-use. Store for collection by approved waste disposal service. Recycle if appropriate facilities/equipment available. Follow all local/regional/national/international 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 for domestic ground transportation.
IMDG: (Sea)	Not regulated for transport under IMO Regulations.
IATA: (Air)	Not regulated for transportation under IATA/ICAO regulations.
TDG: (Canada)	Not determined.

SECTION 15: REGULATORY INFORMATION		
TSCA Inventory: All components are on the UPS EPA's TSCA Inventory		
SARA Title III Information:		
Section 302 - Extremely hazardous substances: Not applicable		
Section 311/312 – Hazard Categories: Skin Irritation – Category 2, Eye Irritation – Category 2A		
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 applicable		
CERCLA - This product contains the following chemicals which have a reportable quantity (RQ) under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA):		
Not applicable		
California Proposition 65: This product contains no chemicals known to the State of California to cause cancer or reproductive toxicity.		
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		
Canadian Domestic Substances List:		
Chemical Name	CAS #	
Not determined		
WHMIS Classification: Not determined		

SECTION 16: OTHER	
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