


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 2; 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 hydroxide/Ethanoic acid	1310-58-3 / 64-19-7	>=40% - <=50%
Water	7732-18-5	>=40% - <=50%
*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:	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.

SECTION 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Water, foam, Dry chemical, Carbon Dioxide (CO₂)

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: Carbon monoxide (CO), Carbon dioxide (CO₂), Phosphorus oxides (P_xO_y)

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.

Environmental Precautions: Minimize spread. Contain spillage with sandbags or other means. Keep out of drains, sewers, ditches and water ways. Do NOT contaminate water when disposing of rinse water.

Methods for Containment and Clean-up: SMALL QUANTITIES: Flush spill area with water. LARGE QUANTITIES: Absorb in earth, sand or absorbent material. Dig up heavily contaminated soil. Collect in containers for disposal. Flush residues with small quantities of water. Minimize use of water to prevent environmental contamination.

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. Avoid breathing vapor or mist. When using, do not eat, drink or smoke. Wash hands thoroughly after handling or contact. Wash contaminated clothing before re-use. Thoroughly clean equipment after use. 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. Keep away from food, drink and animal feed. Keep only in the original container.

Minimum Storage Temperature: Should we assign a minimum storage temp? Store product at temperatures above -20C to prevent freezing

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
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: Wear chemical resistant gloves. If there is significant potential for contact: wear face shield. Wear chemical resistant clothing/footwear.			
Eye 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.			
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):	1.27g/cm ³ (g/ml)
Vapor Pressure (mm Hg):	No significant volatility, aqueous solution.	Density:	1.27g/cm ³
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:	8
Appearance and odor:	Colorless, sour odor	Flash Point:	Does not flash

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability: Stable under normal conditions of handling and storage.	
Conditions to Avoid: Not determined	
Incompatible Materials: Not determined	
Hazardous Decomposition Products: Thermal decomposition: Hazardous products of combustion: Carbon monoxide (CO), Carbon dioxide (CO ₂), Phosphorus oxides (P _x O _y)	

SECTION 11: TOXICOLOGICAL INFORMATION

Likely routes of exposure: skin contact, eye contact, inhalation	
ACUTE TOXICITY	
Eye Effects, short term:	May cause temporary 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 determined
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 2; May cause temporary 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

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. 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 2

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

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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