

Quality is Behind the Diamond[®]

SAFETY DATA SHEET

Section 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Other Identifiers: Product Code(s): Model Code(s) for Extinguishers: Recommended Use:

Manufacturer: Internet Address: Address:

Company Telephone: E-mail Address: Emergency Contacts: K-Ace Liquid Charge 23351 K-Ace, Amerex 16162

VHL2.5, 267 Liquid fire suppression agent, not for human or animal drug use. AMEREX CORPORATION www.amerex-fire.com

7595 Gadsden Highway, P.O. Box 81 Trussville, AL 35173-0081 (205) 655-3271 customer.service@amerex-fire.com Chemtrec 1(800) 424-9300 or (703) 527–3887 April 25, 2014

Revised:

Section 2. HAZARDS IDENTIFICATION

GHS – Classification

Health	Environmental	Physical
Acute Toxicity: Category 5	None	None
Skin Corrosion/Irritation: Category 2	None	None
Skin Sensitization: NO	None	None
Eye: Category 2B	None	Warning
Carcinogen: Category None	None	None

None

Warning

GHS – Label Symbol(s):

GHS – Signal Word(s):

Other Hazards Not Resulting in Classification: None

GHS -	Hazard Phrase	S
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GHS Hazard	GHS Codes(s)	Code Phrase(s)	
Physical	None		
Health	H313	May cause skin irritation	
	320	Causes eye irritation	
Environmental	None		
Precautionary:			
General	P101	If medical advice is needed, have product container or label at hand	
	102	Keep out of reach of children	
Prevention	210	Keep away from heat	
	234	Keep in original container	
	251	Pressurized container; do not pierce or burn, even after use	
	264	Wash hands and face thoroughly after handling	
	270	Do not eat, drink, or smoke when using this product	
	281	Use personal protective equipment as required	
	285	In case of inadequate ventilation, wear respiratory protection	
Response	P301+330+331	If swallowed, rinse mouth and do not induce vomiting	
	302+352	If on skin, wash with soap and water	
	305++337+338+351	If in eyes, flush with water for at least 15 minutes. Remove contact lenses if	
		present and easy to do, continue rinsing. If irritation persists, seek medical	
		attention	
	308+313	If exposed or concerned, get medical advice/attention	
Storage	P401+402+403	Store in original container or extinguisher in a dry, well ventilated place	

Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	EC No.	REACH Reg. No.	CAS-No.	Weight %
Potassium Acetate	NA	NA	127-08-2	48-52
Water	204-822-2	NA	7732-18-5	47-51

Emergency overview:

Adverse health effects and symptoms:

Clear to light straw liquid.

Irritating to respiratory system, eyes and skin. Symptoms may include coughing, shortness of breath, stinging, tearing, and redness of eyes and burning of skin. Ingestion, although unlikely, may cause cramps, nausea, and diarrhea.

Cut-off Levels

Chemical Name	Reproductive Toxicity	Carcinogenicity	Mutagenicity	Other Hazard Classes
Potassium Acetate	NA	NA	NA	NA
Water	NA	NA	NA	NA

Section 4. FIRST AID MEASURES

Eye Exposure:	May cause eye irritation. Irrigate eyes with water and repeat until pain free. Remove contact lenses and continue to rinse. Seek medical attention if irritation continues.
Skin Exposure:	May cause skin irritation. In case of contact, wash with plenty of soap and water. Seek medical attention if irritation persists.
Inhalation:	May cause irritation, along with coughing. If respiratory irritation or distress occurs, remove victim to fresh air. Seek medical attention if irritation persists.
Ingestion:	Overdose symptoms may include nausea, diarrhea, and general ill feeling. If victim is conscious and alert, give 2-3 glasses of water to drink. If conscious, do not induce vomiting. Seek immediate medical attention. Do not leave victim unattended. To prevent aspiration of swallowed product, lay victim on side with head lower than waist.
Medical conditions possibly	
aggravated by exposure:	Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema, or bronchitis.

Section 5. FIRE-FIGHTING MEASURES

Flammable Properties: Flash Point: Suitable Extinguishing Media:

Hazardous Combustion Products: <u>Explosion Data:</u> Sensitivity to Mechanical Impact: Sensitivity to Static Discharge: Unusual fire/explosion hazards: Protective Equipment and Precautions for Firefighters: Not flammable Not determined Non-combustible. Use extinguishing media suitable for surrounding conditions. Carbon dioxide and water.

Not sensitive Not sensitive None

As in any fire, wear self-contained breathing apparatus in pressure-demand, NIOSH approved or equivalent and full protective gear.

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Section 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Avoid contact with skin, eyes, and clothing.
Personal Protective Equipment:	Minimum - safety glasses, gloves, and a dust
	respirator.
Emergency Procedures:	NA
Methods for Containment:	Prevent further leakage or spillage if safe to
	do so.
Methods for Clean Up:	Small spill - Absorb liquid on vermiculite, floor absorbent, or
	other absorbent material and transfer to a fume hood.
	Large spill – Prevent runoff to sewers, streams or other
	bodies of water. If runoff occurs, notify proper authorities as
	required, that spill has occurred. Use protective clothing and
	devices as required. Stop spill at source
Environmental Precautions:	Prevent material from entering waterways.
Other:	If product is contaminated, use PPE and containment
	appropriate to the nature of the most toxic
	chemical/material in the mixture.

Section 7. HANDLING AND STORAGE

Personal Precautions:

Conditions for Safe Storage/Handling:

Use appropriate PPE when handling or maintaining equipment, and wash thoroughly after handling (see Section 8).

Containers of this material may be hazardous when emptied. Since empties containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data seet must be observed Not available.

Incompatible Products:

Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical Name	OSHA PEL	ACGIH TLV	DFG MAK *	EU BLV
Potassium Acetate	NR	NR	NR	NR
Water	NR	NR	NR	NA

NR = Not Regulated. All values are 8 hour time weighted average concentrations.

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Engineering Controls:

Showers Eyewash stations Ventilation systems

Personal Protective Equipment – PPE Code E:









Eye/Face Protection: Skin and Body Protection: Respiratory Protection:

Tightly fitting safety/splash goggles Wear protective gloves and normal work clothing. Use N95 dust mask for limited exposure; use airpurifying respirator (APR) with high efficiency particulate air (HEPA) filters for prolonged exposure. Positive-pressure-demand supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations. The need for respiratory protection is not likely for short-term use in well ventilated areas.

Hygiene Measures:

Good personal hygiene practices essential, such as avoiding food, tobacco products, or other hand-tomouth contact when handling. Wash thoroughly after handling.

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Molecular Weight: Odor: Odor Threshold: Decomposition Temperature ^oC: Freezing Point ^oC: Initial Boiling Point ^oC: Physical State: pH: Flash Point ^oC: Auto-ignition Temperature ^oC: Straw-colored liquid 98.15 Slightly acidic No information available No information available -60 No information available Liquid 9.5-10.5 None None

Page 5 of 11 Pages Potassium Acetate Boiling Point/Range ^oC: Melting Point/Range ^oC: Flammability: Flammability Limits in Air ^oC: Explosive Properties: Oxidizing Properties: Volatile Component (%vol) Evaporation Rate: Vapor Density: Vapor Pressure: Specific gravity at 25 C: Solubility: Partition Coefficient: Viscosity:

Not Applicable 292 Not Flammable Upper – Not Flammable; Lower-Not Flammable None Not Applicable Not Applicable Not Applicable 1.37e-008 mm Hg 1.1 to 1.3 Soluble in Water Not Applicable 6.5 cP

Section 10. STABILITY AND REACTIVITY

Stability:

Incompatibles:

Conditions to Avoid: Hazardous Decomposition Products:

Possibility of Hazardous Reactions: Hazardous Polymerization Stable under recommended storage and handling conditions. Strong acids, bases, and oxidizers. Avoid prolonged contact with reactive metals such as magnesium and zinc, especially in closed systems where hydrogen gas may accumulate over time. Storage or handling near incompatibles. Heat of fire may release carbon monoxide, carbon dioxide. Slight Does not occur

Section 11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Symptoms: Immediate: Inhalation: Eyes: Skin: Delayed: Acute Toxicity: Chronic Toxicity: Short-term Exposure: Long-term Exposure: Inhalation, skin, and eye contact.

Irritation, coughing. Irritation. Irritation. Symptoms appear to be relatively immediate Relatively non-toxic.

None known. None known.

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Acute Toxicity Values - Health

Chemical Name	LD50		LC50 (Inhalation)
	Oral Dermal		
Potassium Acetate	3250 mg/kg (rat)	Not available	Not available
Water	Not available	Not available	Not available

Reproductive Toxicity:

Target Organs and Effects (TOST):

This product's ingredients are not known to have reproductive or teratogenic effects.

Respiratory system - slight irritant).

This product is a mild irritant to epithelial tissue, (eyes, mucous membranes, skin) and may aggravate dermatitis. No information was found indicating the product causes sensitization.

Other Toxicity Categories

Chemical Name	Germ Cell Mutagenicity	Carcino- genicity	Repro- ductive	TOST Single Exp	TOST Repeated Exp	Aspiration
Potassium Acetate	None	None	None	None	None	None
Water	None	None	None	None	None	None

Section 12. ECOLOGICAL INFORMATION

Ecotoxicity:

Persistence/Degradability:

Probability of rapid biodegradation: Anaerobic biodegradation probability: Bioaccummulation potential: Bioconcentration factor: Bioaccummulation: Mobility in soil:

Log Koc: Log Koa: Log Kaw: Negative effects unknown. Weak toxin Moderate biodegradation in soil. Rapid photolytic degradation in air. 0.792 (Rapid); 0.943 (Rapid) Low 3.16 L/kg (wet weight) Extent unknown. Slow evaporation rate; water soluble, may leach to groundwater Est: 0.013 NA Est: -3.72

Other Adverse Ecological Effects:

No other known effects at this time

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Aquatic Toxicity Values – Environment – Research

Chemical Name	Acute (LC50)	Chronic (LC50)
Potassium Acetate	N/A	N/A
Water	N/A	N/A

Aquatic Toxicity Values – Environment – Estimates

Chemical Name	Acute (LC50)	EC50
Potassium Acetate	2.58e+04 mg/L Fish 96 hr;	4.40e+03 mg/L Gr. Algae 96 hr
	1.22e+04 mg/l Daphnid 48 hr;	
Water	N/A	N/A

Section 13. DISPOSAL CONSIDERATIONS

Safe Handling

Waste Disposal Considerations

Contaminated Packaging

Use appropriate PPE when handling, and wash thoroughly after handling (see Section 8). Dispose in accordance with federal, state, and local regulations. Dispose in accordance with federal, state, and local regulations.

NOTES:

This product is not a RCRA characteristically hazardous or listed hazardous waste. Dispose of according to state or local laws, which may be more restrictive than federal laws or regulations. Used product may be altered or contaminated, creating different disposal considerations.

Section 14. TRANSPORT INFORMATION

UN Number: UN Proper Shipping Name: Transport Hazard Class: Packing Group: Marine Pollutant?:	NA NA NA NO
ΙΑΤΑ	Not regulated
DOT	Not regulated

NOTES:

This product is not defined as a hazardous material under U.S. Department of Transportation (DOT) 49 CFR 172, or by Transport Canada "Transportation of Dangerous Goods" regulations.

Special Precautions for Shipping:

If shipped in a stored pressure-type fire extinguisher, and pressurized with a non-flammable, nontoxic inert expellant gas, the fire extinguisher is considered a hazardous material by the US Department of Transportation and Transport Canada. The proper shipping name shall be FIRE EXTINGUISHER and the UN designation is UN 1044. The DOT hazard class is 2.2, non-flammable gas, when shipped via air and when operating pressure is over 240 psig. The hazard class is Limited Quantity when shipped via highway or rail and the pressure is less than 241 psig.

Section 15. REGULATORY INFORMATION

International Inventory Status:	All ingredients are on the following inventories		
Country(ies)	Agency	Status	
United States of America	TSCA	Yes	
Canada	DSL	Yes	
Europe	EINECS/ELINCS	Yes	
Australia	AICS	Yes	
Japan	MITI	Yes	
South Korea	KECL	Yes	

REACH Title VII Restrictions:

No information available

Chemical Name	Dangerous Substances	Organic Solvents	Harmful Substances Whose Names Are to be Indicated on Label	Pollution Release and Transfer Registry (Class II)	Pollution Release and Transfer Registry (Class I)	Poison and Deleterious Substances Control Law
Potassium Acetate	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Water	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

Component	ISHA – Harmful Substances Prohibited for Manufacturing, Importing, Transferring, or Supplying	ISHA – Harmful Substances Requiring Permission	Toxic Chemical Classification Listing (TCCL) – Toxic Chemicals	Toxic Release Inventory (TRI) – Group I	Toxic Release Inventory (TRI) – Group II
Potassium Acetate	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Water	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

European Risk and Safety phrases:

EU Classification:	Irritant	
R Phrases:	36	Irritating to eyes, respiratory system, and skin
S Phrases:	24/25	Avoid contact with skin and eyes

Page 9 of 11 Pages Potassium Acetate 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
36 Wear suitable protective clothing.

U.S. Federal Regulatory Information:

SARA 313:

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) - This product does not contain and chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372. None of the chemicals in this product are under SARA reporting requirements or have SARA threshold planning quantities (TPQs) or CERCLA reportable quantities (RQs), or are regulated under TSCA 8(d).

SARA 311/312 Hazard Categories:

Yes
No
No
Yes
No

* - Only applicable if material is in a pressurized extinguisher.

Clean Water Act:

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any substances regulated as hazardous air pollutants (HAPs) under Section 112 of the Clean Air Act Amendments of 1990.

U.S. State Regulatory Information:

Chemicals in this product are covered under specific State regulations, as denoted below:

Alaska - Designated Toxic and Hazardous Substances: None California – Permissible Exposure Limits for Chemical Contaminants: None Florida – Substance List: None Illinois – Toxic Substance List: None Kansas – Section 302/303 List: None Massachusetts – Substance List: None Minnesota – List of Hazardous Substances: None Missouri – Employer Information/Toxic Substance List: None New Jersey – Right to Know Hazardous Substance List: None North Dakota – List of Hazardous Chemicals, Reportable Quantities: None Page 10 of 11 Pages Potassium Acetate Pennsylvania – Hazardous Substance List: None Rhode Island – Hazardous Substance List: None Texas – Hazardous Substance List: No West Virginia – Hazardous Substance List: None Wisconsin – Toxic and Hazardous Substances: None

California Proposition 65: No component is listed on the California Proposition 65 list.

Section 16. OTHER INFORMATION

This SDS conforms to requirements under U.S., U.K., Canadian, Australian, and EU regulations or standards, and conforms to the proposed 2003 ANSI Z400.1 format.

Issuing Date Revision Date Revision Notes 17-June-2012 25-April-2014 None

The information herein is given in good faith but no warranty, expressed or implied, is made. Updated by William F. Garvin, CIH.