

# SAFETY DATA SHEET

## Section 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: K-Ace Liquid Charge 23351 Other Identifiers: K-Ace, Amerex 16162

Product Code(s):

Model Code(s) for Extinguishers: VHL2.5, 267

Recommended Use: Liquid fire suppression agent, not for human

or animal drug use.

Manufacturer: AMEREX CORPORATION

Internet Address: <u>www.amerex-fire.com</u>

Address: 7595 Gadsden Highway, P.O. Box 81

Trussville, AL 35173-0081

Company Telephone: (205) 655-3271

E-mail Address: info@amerex-fire.com

Emergency Contacts: Chemtrec 1(800) 424-9300 or

(703) 527-3887

Revised: April 25, 2014

### 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

GHS – Label Symbol(s): None

GHS – Signal Word(s): Warning

Other Hazards Not Resulting in Classification: None

### **GHS - Hazard Phrases**

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: Clear to light straw liquid.

Adverse health effects and symptoms: 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: Not flammable Flash Point: Not determined

Suitable Extinguishing Media: Non-combustible. Use extinguishing media suitable

> for surrounding conditions. Carbon dioxide and water.

Hazardous Combustion Products:

**Explosion Data:** 

Sensitivity to Mechanical Impact: Not sensitive Sensitivity to Static Discharge: Not sensitive None

Unusual fire/explosion hazards:

Protective Equipment and

Precautions for Firefighters: As in any fire, wear self-contained breathing

apparatus in pressure-demand, NIOSH approved or

equivalent and full protective gear.

# 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: Use appropriate PPE when handling or maintaining

equipment, and wash thoroughly after handling (see

Section 8).

Conditions for Safe Storage/Handling: 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

Incompatible Products: Not available.

# 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.

## **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-to-mouth contact when handling. Wash thoroughly after handling.

### Section 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Straw-colored liquid

Molecular Weight: 98.15

Odor: Slightly acidic

Odor Threshold:

Decomposition Temperature <sup>o</sup>C:

No information available

No information available

Freezing Point <sup>o</sup>C: -60

Initial Boiling Point <sup>o</sup>C: No information available

Physical State:

pH:

9.5-10.5

Flash Point OC:

Auto-ignition Temperature OC:

None

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Boiling Point/Range <sup>o</sup>C: Not Applicable

Melting Point/Range <sup>o</sup>C: 292

Flammability: Not Flammable

Flammability Limits in Air <sup>o</sup>C: Upper – Not Flammable; Lower-Not Flammable

Explosive Properties:

Oxidizing Properties:

None

None

Volatile Component (%vol)

Evaporation Rate:

Vapor Density:

Vapor Pressure:

Not Applicable

Not Applicable

1.37e-008 mm Hg

Specific gravity at 25 C: 1.1 to 1.3

Solubility: Soluble in Water Partition Coefficient: Not Applicable

Viscosity: 6.5 cP

# Section 10. STABILITY AND REACTIVITY

Stability: Stable under recommended storage and handling

conditions.

Incompatibles: 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.

Conditions to Avoid: Storage or handling near incompatibles.

Hazardous Decomposition Products: Heat of fire may release carbon monoxide, carbon

dioxide.

Possibility of Hazardous Reactions: Slight

Hazardous Polymerization Does not occur

### Section 11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Inhalation, skin, and eye contact.

Symptoms:

Immediate:

Inhalation: Irritation, coughing.

Eyes: Irritation. Skin: Irritation.

Delayed: Symptoms appear to be relatively immediate

Acute Toxicity: Relatively non-toxic.

Chronic Toxicity:

Short-term Exposure: None known. Long-term Exposure: None known.

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Potassium Acetate

**Acute Toxicity Values - Health** 

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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: This product's ingredients are not known to have

reproductive or teratogenic effects.

Target Organs and Effects (TOST): 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: Negative effects unknown. Weak toxin

Persistence/Degradability: Moderate biodegradation in soil. Rapid photolytic

degradation in air.

Probability of rapid biodegradation: 0.792 (Rapid); Anaerobic biodegradation probability: 0.943 (Rapid)

Bioaccummulation potential: Low

Bioconcentration factor: 3.16 L/kg (wet weight) Bioaccummulation: Extent unknown.

Mobility in soil: Slow evaporation rate; water soluble, may leach to

groundwater

Log Koc: Est: 0.013

Log Koa: NA

Log Kaw: Est: -3.72

Other Adverse Ecological Effects: No other known effects at this time

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 Use appropriate PPE when handling, and wash

thoroughly after handling (see Section 8).

Waste Disposal Considerations Dispose in accordance with federal, state, and local

regulations.

Contaminated Packaging 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:
NA
Transport Hazard Class:
NA
Packing Group:
NA
Marine Pollutant?:
NO

IATA 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, non-toxic 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

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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

water and seek medical advice.

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:

Acute Health Hazard Yes
Chronic Health Hazard No
Fire Hazard No
Sudden Release of Pressure Hazard\* Yes
Reactive Hazard No

#### 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

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Potassium Acetate

<sup>\* -</sup> Only applicable if material is in a pressurized extinguisher.

**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 17-June-2012 Revision Date 25-April-2014

Revision Notes None

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