

# SAFETY DATA SHEET

#### Section 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: KP Wet Chemical Agent

Other Identifiers: Class K extinguishant for KP systems Product Code(s): CH544, CH547, CH656, CH664

Model Code(s) for Fire Extinguishers: KP 275, 375, 475, 600 wheeled model 325R

Recommended Uses:

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: May, 2016

#### Section 2. HAZARDS IDENTIFICATION

#### **GHS – Classification**

Health	Environmental	Physical
Acute Toxicity: Category 5	None	None
Skin Corrosion/Irritation: NO	None	None
Skin Sensitization: NO	None	None
Eye: Category 2B	None	Warning
STOT – Category 3	None	Warning
Carcinogen: Category None	None	None

GHS – Label Symbol(s): Exclamation Mark

**(!)** 

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	H303	May be harmful if swallowed
	320	Causes eye irritation
	335	May cause respiratory irritation
Environmental	None	
Precautionary:		
General	P101	If medical advice is needed, have product container or label at hand
Prevention	261	Avoid breathing mist
	264	Wash hands and face thoroughly after handling
Response	P304+340	If inhaled, remove person to fresh air and keep comfortable for breathing.
	305+351+313	If in eyes, rinse cautiously with water for several minutes. Get immediate medical
		advice/attention (as appropriate).
	337+338	If eye irritation persists: remove contact lenses, if present and easy to do. Continue
	212	rinsing.
	312	Call a POISON CENTER/doctor if you feel unwell (as appropriate).
Storage	None	

# Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	EC No.	REACH Reg. No.	CAS-No.	Weight %
Water	NA	NA	7732-18-5	<50
Potassium acetate	204-822-2	NA	127-08-2	<50
Potassium citrate	203-961-6	NA	866-84-2	<5
Proprietary organic phosphate esters Example: Phosphoric acid tributyl ester	NA	NA	68130-47-2 126-23-8	<5
Pink Pigment	NA	NA	3520-42-1 4478-76-6 6844-74-2	<1

Emergency overview:

Adverse health effects and symptoms:

Clear to opaque liquid solution.

This product is an irritant to the respiratory system, eyes, and skin. Symptoms may include coughing, sore throat, difficulty breathing, eye pain, and skin redness and irritation. Ingestion, although unlikely, may cause cramps, nausea and diarrhea.

#### **Cut-off Levels**

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Chemical Name	Reproductive Toxicity	Carcinogenicity	Mutagenicity	Other Hazard Classes
Water	NA	NA	NA	NA
Potassium acetate	NA	NA	NA	NA
Potassium citrate	NA	NA	NA	NA
Proprietary organic phosphate esters	NA	NA	NA	NA
Example: Phosphoric acid tributyl ester				
Pink Pigment	NA	NA	NA	NA

## Section 4. FIRST AID MEASURES

Eye Exposure: Causes irritation. Irrigate eyes with water and repeat

until pain free. Seek medical attention immediately. 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. May cause

dizziness or drowsiness. If respiratory irritation or distress occurs, remove victim to fresh air. Seek

medical attention if irritation persists.

Ingestion: Overdose symptoms may include severe pain in the

mouth and throat, collapse, breathing difficulty due to swollen throat, severe abdominal pain, diarrhea, and a rapid drop in blood pressure. If victim is conscious and alert, give 2-3 glasses of water or milk to drink. 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:

Skin Exposure:

Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema, or bronchitis. Skin contact may aggravate existing skin

disease.

#### 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 and sulfur oxides

Hazardous Combustion Products:

Explosion Data:

Sensitivity to Mechanical Impact: Not sensitive Sensitivity to Static Discharge: Not sensitive

Unusual fire/explosion hazards: In a fire this material may decompose, releasing

oxides of carbon and potassium. (see Section 10).

Protective Equipment and Precautions for Firefighters:

As in any fire, wear self-contained breathing apparatus 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: During minor spill clean-up: Minimum – chemical

goggles, nitrile gloves, and an air purifying respirator.

Emergency Procedures: Large spills (one container or more) should be

addressed by hazardous materials technicians who follow a specific emergency response plan and who

are trained in the appropriate use of PPE.

Methods for Containment: Prevent further leakage or spillage if safe to

do so. Use sorbent socks for containment

Methods for Clean Up: Clean up released material using sorbent materials.

Bag and drum for disposal; properly label containers;

dispose as required by local, state, and federal

regulations. Decontaminate with detergent and water.

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: Keep product in original container or extinguisher in a

cool area. Use in well ventilated area. Prevent falling. Do not allow near heat sources. Contents may be under pressure – inspect extinguisher consistent with

product labeling to ensure container integrity.

Incompatible Products: This material is incompatible with strong acids and

strong oxidizing agents. In contact with strong acids,

potassium acetate may react vigorously and

decompose to produce acetic acid fumes. Potassium

acetate may be mildly corrosive to many metals. Carbon dioxide, carbon monoxide, metal oxides.

Will not occur.

Hazardous Decomposition Products:

Hazardous Polymerization:

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#### Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical	OSHA PEL	ACGIH TLV	DFG MAK *	EU BLV
Name				
Water	NR	NR	NR	NR
Potassium acetate	NR	NR	NR	NR
Potassium citrate	NR	NR	NR	NR
Proprietary organic phosphate esters	NR	NR	NR	NR
Example: Phosphoric acid tributyl ester	5mg/m3	2.2 mg/m3		
Pink Pigment	NR	NR	NR	NR

<sup>\*</sup>German regulatory limits \*\*PNOC = Particulates not otherwise classified (ACGIH) also known as Particulates not otherwise regulated (OSHA) \*\*\* NR = Not Regulated. All values are 8 hour time weighted average concentrations.

#### **Engineering Controls:**

Showers
Eyewash stations
Ventilation systems

### <u>Personal Protective Equipment – PPE Code E:</u>

The need for respiratory protection is not probable during short-term exposure. PPE use during production process must be independently evaluated.









Eye/Face Protection: Skin and Body Protection: Respiratory Protection: Chemical goggles
Wear nitrile or similar gloves/coveralls
If exposure limits are exceeded or irritation is
experienced, NIOSH approved respiratory protection
should be worn. Use N100 mask for limited
exposure; use air-purifying respirator (APR) with high
efficiency particulate air (HEPA) filters for prolonged
exposure. Positive-pressure supplied air respirators
may be required for high airborne contaminant
concentrations. Respiratory protection must be
provided in accordance with current safety and health
requirements. The need for respiratory protection is
not likely for short-term use in well ventilated areas.

Hygiene Measures: G

Good personal hygiene practice is 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: Clear to opaque liquid solution

Molecular Weight: C2H3KO2: 98.14

Odor: Odorless

Odor Threshold: No information available

Decomposition Temperature <sup>o</sup>C: 100 - 120

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

No information available Approximately 149

Physical State: Liquid

pH: Approximately 8.5 in solution

Flash Point <sup>o</sup>C: None Auto-ignition Temperature <sup>o</sup>C: None

Boiling Point/Range <sup>o</sup>C: 149/141-155
Melting Point/Range <sup>o</sup>C: Not Applicable
Flammability: Not flammable

Flammability Limits in Air °C: Upper – Not Flammable; Lower-Not Flammable

Explosive Properties: None Oxidizing Properties: None

Volatile Component (%vol)

Evaporation Rate:

Vapor Density:

Vapor Pressure:

Not Applicable

Not Applicable

Not Applicable

Specific gravity: Approximately 1.3 at 25 C

Solubility: Soluble in water

Partition Coefficient: No Information Available

Viscosity: Not Applicable

## Section 10. STABILITY AND REACTIVITY

Stability: Stable under recommended storage and handling

conditions.

Reactivity: Not reactive

Possibility of Hazardous Reactions:

Incompatibles: This material is incompatible with strong acids and

strong oxidizing agents. In contact with strong acids,

potassium acetate may react vigorously and

decompose to produce acetic acid fumes. Potassium

acetate may be mildly corrosive to many metals.

Conditions to Avoid: Storage or handling near incompatibles.

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

dioxide, and oxides of potassium.

Possibility of Hazardous Reactions: None

Hazardous Polymerization Does not occur

## Section 11. TOXICOLOGICAL INFORMATION

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

Symptoms: Immediate

Inhalation: Irritation, coughing.

Eyes: Mild irritation. Skin: Mild 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.

**Acute Toxicity Values - Health** 

Chemical Name		LC50 (Inhalation)	
	Oral	Dermal	
Water	NIA	NA	NIA
water	NA	NA	NA
Potassium acetate	3250 mg/kg (rat)	NA	NA
Potassium citrate	NA	NA	NA
Proprietary organic phosphate esters Example: Phosphoric acid tributyl	NA	NA	NA
ester	>1400 /mg/kg (rat)		
Pink Pigment	NA	NA	NA

Reproductive Toxicity:

This product's ingredients are not known to have

reproductive or teratogenic effects.

Target Organs and Effects (TOST): Respiratory system (mild irritant).

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

product causes sensitization.

**Other Toxicity Categories** 

Chemical Name	Germ Cell	Carcino-	Repro-	TOST	TOST	Aspiration
	Mutagenicity	genicity	ductive	Single Exp	Repeated Exp	
Water	None	None	None	None	None	None
Potassium acetate	None	None	None	None	None	None
Potassium citrate	None	None	None	None	None	None
Proprietary organic phosphate	None	None	None	None	None	None
esters						
Example: Phosphoric acid tributyl						
ester						
Pink Pigment	NA	NA	NA	NA	NA	NA

# Section 12. ECOLOGICAL INFORMATION

Ecotoxicity: A weak environmental toxin. Specific negative impacts are

unknown.

Persistence/Degradability: Soluble in water; moderate degradation in soil. Rapid

photolytic degradation in air.

Probability of rapid biodegradation: C2H3KO2 Est: 0.792 (Rapid)
Anaerobic biodegradation probability: C2H3KO2 Est: - 0.943 (Rapid)

Bioaccummulation potential: Low.

Bioconcentration factor: C2H3KO2 Est: 3.16 L/kg (wet weight)

Bioaccummulation: Extent unknown but unlikely.

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

groundwater

NOTE: C2H3KO2 - Potassium Acetate

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

Aquatic Toxicity Values - Environment - Research

-1		
Chemical Name	Acute (LC50)	Chronic (LC50)
Water	N/A	N/A
Potassium acetate	N/A	N/A
Potassium citrate	Not acutely toxic	Not acutely toxic
Proprietary organic phosphate esters	N/A	N/A
Example: Phosphoric acid tributyl ester		
Pink Pigment	N/A	N/A

Aquatic Toxicity Values - Environment - Calculated Estimates

Chemical Name	Acute (LC50)	EC50
Water	N/A	N/A
Potassium acetate	N/A	4403 mg/L Gr. Algae 96 hr
Potassium citrate	N/A	2.33e+05 mg/L Gr. Algae 96 hr
Proprietary organic phosphate esters	N/A	N/A
Example: Phosphoric acid tributyl ester		
Pink Pigment	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: NA
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.

# 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
Water	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Potassium acetate	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Potassium citrate	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Proprietary organic phosphate esters Example: Phosphoric acid tributyl ester	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Pink Pigment	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
Water	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Potassium acetate	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Potassium citrate	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Proprietary organic phosphate esters Example: Phosphoric acid tributyl ester	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Pink Pigment	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

## **European Risk and Safety phrases:**

EU Classification: XN Irritant

R Phrases: 20 Harmful by inhalation.

36/37/38 Irritating to eyes, respiratory system, and skin.

S Phrases: 24/25 Avoid contact with skin and eyes

In case of contact with eyes, rinse immediately with

plenty of water and seek medical advice.

Wear suitable protective clothing.

38 Eye/face protection.

#### **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 <u>Hazard Categories</u>:

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

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

#### Clean Water/Clean Air Acts:

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

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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

**Pennsylvania** – Hazardous Substance List: None **Rhode Island** – Hazardous Substance List: None

Texas – Hazardous Substance List: None

**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.

#### Other:

Mexico – Grade No component listed Canada – WHMIS Hazard Class No component listed

#### 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 20-May-2016

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.