MATERIAL SAFETY DATA SHEET

Section 1. Chemical product and company identification

Product Name:	KP WET CHEMICAL AGENT (CH 544,CH547, CH656,CH664)
Manufacturer:	AMEREX CORPORATION
Internet Address:	www.amerex-fire.com
Address:	7595 Gadsden Highway P.O. Box 81 Trussville, AL 35173-0081
Telephone:	(205) 655-3271
Emergency Contacts:	Chemtrec 1(800) 424-9300 or (703) 527–3887
Revised:	May, 2012

Section 2. Hazard Identification and Emergency Overview

Emergency overview: Reddish colored liquid.

Adverse health effects and symptoms: Mildly irritating to the eyes, skin, and respiratory system. Symptoms may include coughing, shortness of breath, and eye and skin irritation. Ingestion, although unlikely, may cause gastrointestinal disturbance.

Exposure guidelines:

Ingredients	OSHA PEL	ACGIH TLV	DFG MAK *
Water	NR**	NR	NR
Potassium acetate	NR	NR	NR
Potassium citrate	NR	NR	NR
Proprietary organic phosphate esters	NR	NR	NR
Pink pigment	NR	NR	NR

*German regulatory limits ** NR = Not Regulated

Hazard symbols: WHMIS (Canadian workplace hazardous materials identification system)

D2B – Product may irritate skin or mucous membranes

Section 3. Composition/ information on ingredients

Name/Compound	Weight %	CAS #
Water	< 50	7732-18-5
Potassium acetate	< 50	127-08-2
Potassium citrate	< 5	866-84-2
Organic phosphate esters	< 5	68130-47-2
Pink pigment, mono azo dyes	<1	3520-42-1 4478-76-6 6844-74-2

Section 4. First Aid Measures

Eye Exposure: Irrigate eyes at eye wash station for 15 minutes and repeat until pain free. Seek medical attention if irritation develops or persists, or if vision changes occur.

Skin Exposure: In case of contact, wash with plenty of soap and water. Seek medical attention if irritation develops or persists.

Inhalation: If respiratory irritation or distress occurs remove victim to fresh air. Seek medical attention if irritation develops or persists.

Ingestion: If victim is conscious and alert, give 2-3 glasses of water to drink and on the advice of medical personnel 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. If vomiting occurs and the victim is conscious, give water to further dilute the chemical.

Medical conditions possibly aggravated by exposure: Skin contact may aggravate existing skin disease. Chronic overexposure may affect blood cholinesterase levels and the central nervous system.

Section 5. Fire fighting measures

Extinguishing media: non combustible and non flammable – product is an extinguishing agent

Unusual fire/explosion hazards: in a fire this material may decompose, releasing oxides of phosphorus, carbon, and acetic acid (see Section 10).

Insensitive to mechanical impact or static discharge.

HMIS hazard ranking: health 1, flammability 0, reactivity 0, personal protective equipment: eye protection, gloves and appropriate skin protection (see Section 8)

Section 6. Accidental release measures

Large spills (one drum or more) should be addressed by hazardous materials technicians following a site-specific emergency response plan and trained in the appropriate use of PPE. Clean up released material using sorbent socks for containment, followed by sorbent material inside containment. If deemed necessary, wear full face APR or PAPR with organic vapor cartridges (Section 8). Bag and drum for disposal. If product is used and/or contaminated, for example if mixed with kitchen grease, use PPE and containment appropriate to the nature of the mixture. Handle and dispose of as a hazardous waste unless testing indicates otherwise. Decontaminate with detergent and water.

Section 7. Handling and storage

Avoid skin, eye, or respiratory exposure. Use appropriate PPE when handling or maintaining equipment, and wash thoroughly after handling (see Section 8). Keep product in original container or extinguisher. Contents may be under pressure – inspect for extinguisher rust periodically to insure container integrity. Do not mix with other extinguishing agents.

Section 8. Exposure controls/ personal protection

During the application of this product against fires, exhaust gases and the products of incomplete combustion (PICs) are the principal respiratory hazards. In the manufacture of extinguishers, automated systems and point source ventilation controls sufficiently minimize respiratory exposure. Employers and employees must use their collective judgment in determining occupational settings where the use of a respirator is prudent. The need for respiratory protection is not likely for short-term use in well ventilated areas.

Respiratory protection: use air-purifying respirator (APR) or powered air-purifying respirator (PAPR) with organic vapor cartridges/canisters for short term exposure, and supplied air/SCBA for high concentration or prolonged exposure.

Eye protection: wear chemical goggles.

Skin protection: use nitrile, latex, or similar gloves and coveralls. 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: reddish colored liquid
Specific gravity: ~ 1.3
Solubility: soluble in water
Non –flammable
Flash point: none
Vapor pressure: < 10 mm Hg at room temperature
pH: approximately 8.5

Boiling point: ~ 300^{o} F

No explosive or oxidizing properties

Section 10. Stability and reactivity

Stability: stable

Incompatibles: strong acids, strong oxidizers such as sodium hypochlorite (bleach), aluminum, polyurethane, and any wet, reactive material.

Decomposition products: heat of fire may release carbon dioxide, phosphorus oxide, and acetic acid.

Possibility of hazardous reactions: none

Section 11. Toxicological information

Acute toxicity: Potassium acetate LD_{50} oral rat: 3250 mg/kg body weight

Target organs in man: respiratory system, eyes, skin. This product is a mild irritant to epithelial tissue, and may aggravate dermatitis. Ingestion may cause gastrointestinal injury. No information was found indicating the product causes sensitization.

Chronic toxicity: This product's ingredients are not considered as "probable" or "suspected" carcinogens by OSHA, IARC, or ACGIH.

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

Section 12. Ecological information

Ecotoxicity: weak environmental toxin, specific negative effects unknown.

Persistence/
Degradability: moderate biodegradation in soil, rapid photolytic degradation in air

Bioaccummulation: extent unknown

Mobility in soil: water soluble, slow to evaporate, may reach groundwater

Section 13. Disposal considerations

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. Transportation information

This product is not a hazardous material under U.S. Department of Transportation (DOT) 49 CFR 172, and is not regulated by the DOT.

When 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/division is 2.2 Non-Flammable Gas. Packing Group – N/A

Section 15. Regulatory information

International Inventory Status
Some 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

European Risk and Safety phrases:

EU Classification:	Xi.	Irritant
R Phrases:	36	Irritating to eye
S Phrases:	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:

None of the chemicals in this product are under SARA reporting requirements or have SARA threshold planning quantities (TPQs) or CERCLA reportable quantities (RQs).

State regulatory information:

Chemicals in this product are not 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
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 lists.

Section 16. Other information

This MSDS 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.

The information herein is given in good faith but no warranty, expressed or implied, is made. Updated by Lindsay R. Hill, CIH.