

SAFETY DATA SHEET

Section 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Other Identifiers: Product Code(s): Model Code(s) for Fire Extinguishers: Recommended Uses: Manufacturer: Internet Address: Address:

Company Telephone: E-mail Address: **Emergency Contacts:** CH 530/660 Wet Chemical Agent Class K liquid agent for extinguishers CH530/CH660 260.262 Fire Suppression (Class K) AMEREX CORPORATION www.amerex-fire.com 7595 Gadsden Highway, P.O. Box 81

Trussville, AL 35173-0081 (205) 655-3271 info@amerex-fire.com Chemtrec 1(800) 424-9300 or (703) 527-3887 April 17, 2024; Revision G

Revised:

Section 2. HAZARDS IDENTIFICATION

GHS – Classification

Hazard Class	Category	Signal Word
Aerosols	Category 3	Warning
Acute Toxicity: Category 5	Category 5	Warning
Skin Corrosion/Irritation: Category 3	Category 3	Warning
Serious eye damage/eye irritation	Category 2B	Warning
Specific target organ toxicity, single exposure; Respiratory	Category 3	Warning

GHS – Label Symbol(s):

If Pressurized: Gas Under Pressure



GHS – Signal Word(s):

Other Hazards Not Resulting in Classification: None

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Warning

GHS – Hazard Phrases

GHS Hazard	GHS Code(s)	Code Phrase(s)	
Physical	H229	*Pressurized container; may burst if heated.	
Health	H303 316	May be harmful if swallowed. Causes mild skin irritation.	
	320 335	Causes eye irritation. May cause respiratory irritation.	
Environmental	None		
Precautionary:			
General	P101	If medical advice is needed, have product container or label at hand	
Prevention	P210	*Keep away from heat, hot surface, sparks, open flames, and other ignition sources. No smoking.	
251 261		*Do not pierce or burn, even after use. Avoid breathing dust/fume/gas/mist/vapors/spray.	
		Use only outdoors or in a well-ventilated area.	
	271	Wash hands thoroughly after handling. Do not touch eyes.	
	264+265		
Response P319 301+317 304+340 332+317 337+317		Get medical help if you feel unwell.	
		IF SWALLOWED: Get medical help	
		IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
		If skin irritation occurs: Get medical help.	
		If eye irritation persists: Get medical help.	
305+351+338		IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.	
	P405	Store locked up.	
Storage	403+233	Store in a well-ventilated place. Keep container tightly closed.	
Ŭ	410+412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.	
Disposal	P501	Dispose of contents/container through a licensed disposal company. Contaminated container should be disposed of as unused product.	

*- Fire extinguishers are designed to be used to extinguish fires.

Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	EC No.	REACH Reg. No.	CAS-No.	Weight %
Water	231-791-2	NA	7732-18-5	40-60
Potassium acetate	204-822-2	NA	127-08-2	40-60
Potassium citrate	212-755-5	NA	866-84-2	<8

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.
Section 4. FIRST AID MEASURES	
Eye Exposure:	May cause irritation. Irrigate eyes with water and repeat until pain free. Seek medical attention if irritation persists.
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. May cause dizziness or drowsiness. If respiratory irritation or distress occurs, remove victim to fresh air. Seek medical attention if irritation persists.
	Overdose symptoms may include gastrointestinal complaints or change in urine output. If victim is conscious and alert, rinse out mouth and give 1-2 glasses of water or milk to drink. Do not induce vomiting. Consult medical service if feel unwell. 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. 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, acetic acid fumes, and sulfur oxides Hazardous Combustion Products: Explosion Data: Sensitivity to Mechanical Impact: Not sensitive Sensitivity to Static Discharge: Not sensitive Page 3 of 12 Pages CH530/660 WET AGENT SDS Part Number 26926

Unusual fire/explosion hazards:

Protective Equipment and Precautions for Firefighters:

In a fire this material may decompose, releasing oxides of carbon and potassium. (See Section 10).

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: Personal Protective Equipment:	Avoid contact with skin, eyes, and clothing. 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: Other:	Prevent material from entering waterways. 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:	Do not mix with other extinguishing agents, strong acids, strong oxidants.
Hazardous Decomposition Products: Hazardous Polymerization:	Carbon dioxide, phosphorous oxide, acetic acid. Will not occur.

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Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical Name	OSHA PEL	ACGIH TLV	DFG MAK *	EU BLV
Water	NR	NR	NR	NR
Potassium acetate	NR	NR	NR	NR
Potassium citrate	NR	NR	NR	NR

*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

Personal Protective Equipment – PPE Code E:

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:

Hygiene Measures:

Wear tightly fitting safety goggles.

Wear nitrile or similar gloves, and coveralls or long sleeve shirt.

If exposure limits are exceeded or irritation is experienced, NIOSH approved respiratory protection should be worn. Use N100 respirators 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. Good personal hygiene practice is essential, such as avoiding food, tobacco products, or other hand-tomouth contact when handling. Wash thoroughly after handling.

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Section 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Molecular Weight: Odor: Odor Threshold: Decomposition Temperature °C: Freezing Point °C: Initial Boiling Point °C: **Physical State:** pH: Flash Point °C: Auto-ignition Temperature °C: Boiling Point/Range °C: Melting Point/Range °C: Flammability: Flammability/Explosive Limits in Air °C: **Explosive Properties: Oxidizing Properties:** Volatile Component (%vol) **Evaporation Rate:** Vapor Density: Vapor Pressure: Specific gravity: Solubility: Partition Coefficient: Viscosity:

Clear to opaque liquid, water based C2H3KO2: 98.14; C6H5O7K3: 306.39 Odorless No information available 100 - 120 No information available Approximately 149 Liquid Approximately 8.5 None None 149/141-155 C2H3KO2: 292; K3C6H5O7: 180 Not flammable Upper – No; Lower - No None None Not Applicable No information available No information available No information available Approximately 1.2 at 25°C Soluble in water No Information Available Not Applicable

Note: C2H3KO2 - Potassium Acetate; C6H5O7K3 - Potassium Citrate

Section 10. STABILITY AND REACTIVITY

Stability:

Reactivity: Possibility of Hazardous Reactions:

Incompatibles:

Conditions to Avoid:

Stable under recommended storage and handling conditions. Not reactive Under normal conditions of storage and handling, hazardous reactions will not occur. Strong acids and oxidizers, lime, inorganic bases. Avoid contact with aluminum, lead, tin, zinc, or other alkali sensitive metals or alloys. Storage or handling near incompatibles.

Page 6 of 12 Pages CH530/660 WET AGENT SDS Part Number 26926 Hazardous Decomposition Products:

Possibility of Hazardous Reactions: Hazardous Polymerization Heat of fire may release carbon dioxide, phosphorous oxide, and acetic acid. None 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. Mild irritation. Mild irritation. Symptoms appear to be relatively immediate. Relatively non-toxic.

None known. None known.

Acute Toxicity Values - Health

Chemical Name	LD50		LC50 (Inhalation)
	Oral	Dermal	
Water	NA	NA	NA
Potassium acetate	3250 mg/kg (rat)	NA	NA
Potassium citrate	176 mg/kg (dog)	NA	NA

Reproductive Toxicity:

Target Organs and Effects (TOST):

This product's ingredients are not known to have reproductive or teratogenic effects. 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 Mutagenicity	Carcino- genicity	Repro- ductive	TOST Single Exp	TOST Repeated Exp	Aspiration
Water	None	None	None	None	None	None
Potassium acetate	None	None	None	None	None	None
Potassium citrate	None	None	None	None	None	None

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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); C6H5O7K3: 0.690 (Rapid)
Anaerobic biodegradation probability:	C2H3KO2 Est: 0.943 (Rapid); C6H5O7K3: 1.1142 (Rapid)
Bioaccummulation potential:	Low.
Bioconcentration factor:	C2H3KO2 Est: 3.16 L/kg (wet weight) (Low BCF)
	C6H5O7K3 Est: 3.16 L/kg (wet weight) (Low BCF)
Bioaccummulation factor:	C2H3KO2 Est: 0.929; C6H5O7K3 Est: 0.893
Mobility in soil:	Slow evaporation rate; water soluble, may leach to groundwater.
Log Koc (Kow Method):	C2H3KO2 Est: -1.902; C6H5O7K3 Est: -0.411
Log Koa:	Not available
Log Kow:	C2H3KO2 Est: -3.72; C6H5O7K3 Est -0.28

NOTE: C2H3KO2 – Potassium Acetate; C6H5O7K3 – Potassium Citrate

No other known effects at this time.

Aquatic Toxicity Values – Environment – Research

Chemical Name	Acute (LC50)	Chronic (LC50)
Water	N/A	N/A
Potassium acetate	298 mg/L Fish 96 hr (Pimephales promelas; 313 mg/L Crustaceans 48 hr	N/A
Potassium citrate	Not acutely toxic	Not acutely toxic

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	3.14e+06 mg/L Fish 96 hr; 1.27e+05 mg/l Daphnid 48 hr;	2.33e+05 mg/L Gr. Algae 96 hr

Section 13. DISPOSAL CONSIDERATIONS

Safe Handling

Waste Disposal Considerations

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

Page 8 of 12 Pages CH530/660 WET AGENT SDS Part Number 26926 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
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. This transportation information covers the CH 530-660 Wet Agent fire extinguisher agent as shipped in bulk containers and not when contained in fire extinguishers or fire extinguisher systems.

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/division is LIMITED QUANTITY when pressurized to less than 241 psig and when shipped via highway or rail. UN Class 2.2. Non-Flammable Gas, when shipping via air. Packing Group – N/A

Section 15. REGULATORY INFORMATION

International Inventory Status: All ingredients are on the following inventories:

	5	0
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

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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

REACH Title XVII Restrictions: No information available

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

European Risk and Safety phrases:

EU Classification:	XN	Irritant
R Phrases:	36/37/38	Irritating to eyes, respiratory system, and skin.
S Phrases:	22	Do not breath dust.
	26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	28	After contact with skin, wash immediately with plenty of water.
	S36/37/39:	Wear suitable protective clothing, gloves and eye /face protection.
	S45:	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

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

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

Clean Water/ Clean Air 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) 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 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 West Virginia – 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 Canada – WHMIS Hazard Class No component listed 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. No modifications of this SDS are authorized by AMEREX Corporation. Questions or comments should be directed to AMEREX Corporation (See Section 1).

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