

MATERIAL SAFETY DATA SHEET

IDENTITY- WET CHEMICAL CHARGE

SECTION I. Chemical Product and Company Identification

Product Name: Wet Chemical Fire Extinguishant: **SATURN**
Synonym: Wet Chemical
Manufacturer: Buckeye Fire Equipment Company
110 Kings Road
Kings Mountain, NC 28086
Telephone: 704.739.7415
Emergency: CHEMTREC 1.800.424.9300



Revision Date: 07/12/07

SECTION II. Hazard Identification and Emergency Overview

Emergency Overview: Clear to opaque liquid solution with slightly acidic odor.

Adverse Health Effects and Symptoms: Product is a mild irritant to the respiratory system, skin, and eyes. Symptoms may include shortness of breath, coughing, and irritation to the eyes and skin. Ingestion may cause gastrointestinal disturbance.

Exposure Guidelines:

	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Potassium Acetate	Not Regulated	Not Regulated
Potassium Citrate	Not Regulated	Not Regulated

Hazard Symbols:

HMIS RATINGS:

Health 1
Flammability 0
Reactivity 0

Personal Protective Equipment: use eye protection, gloves, and appropriate skin protection (See Section 8)

WHMIS (Canadian Workplace Hazardous Materials Identification)

D2B- May irritate eyes, mucous membranes, or skin

SECTION III. Composition/Information on Ingredients

	<u>Weight %*</u>	<u>CAS #</u>
Potassium Acetate	> 90	127-98-2
Potassium Citrate	< 10	866-84-2

* % is rounded to the nearest appropriate number. Values are not to be considered product specifications

SECTION IV. First Aid Measures

Eye Exposure- Flush eyes at eye wash station for 15 minutes and repeat until pain-free. If irritation develops or persists or vision changes occur, seek medical attention.

Skin Exposure- Wash with plenty of soap and water. If irritation develops or persists, seek medical attention.

Inhalation- Move victim to fresh air. If irritation develops or persists, seek medical attention.

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Ingestion- If victim is conscious and alert, give 2-3 glasses of water to drink. Do not leave victim unattended. Seek immediate medical attention. On the advice of medical personnel, induce vomiting. If vomiting occurs and the victim is conscious, give additional water to further dilute the chemical. Prevent aspiration of swallowed product by laying victim on side with head lower than their waist.

Medical Conditions Possibly Aggravated by Exposure- Contact with the skin may aggravate an existing skin disease. Chronic overexposure may affect blood cholinesterase levels and the central nervous system.

SECTION V. Firefighting Measures

Extinguishing Media: N/A. This product is an extinguishing agent. It is nonflammable and noncombustible.

Special Firefighting Procedures: N/A

Unusual Fire and Explosion Hazards: This product may decompose in fire and release oxides of carbon (Refer to Section X).

Sensitivity to Mechanical Impact or Static Discharge: None

SECTION VI. Accidental Release Measures

Large spills (1 drum or more) should be addressed by hazardous materials technicians following a site-specific emergency response plan and trained in the appropriate use of personal protection equipment. Clean up released product using absorbent socks for containment followed by absorbent material within the containment. If deemed necessary, wear full face APR or PAPR with organic vapor cartridges (See Section VIII). Bag and drum for disposal. If product is used and/or contaminated, use personal protection equipment and containment appropriate to the nature of the mixture. Prevent material from entering waterways. Handle and dispose of as a hazardous waste unless testing indicates otherwise. Decontaminate with detergent and water.

SECTION VII. Handling and Storage

Avoid eye, respiratory, and skin exposure. Use the appropriate personal protective equipment when handling. Wash thoroughly after handling (Refer to Section VIII). Product should be stored in its original container or extinguisher. Do not mix with other extinguishing agents.

SECTION VIII. Exposure Controls and Personal Protection

During the use of this product on fires, exhaust gases and products of incomplete combustion are the main respiratory hazards. In the manufacture of this product, employers and employees must use their collective judgment in determining the on-the-job 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: Against mist, use an N-95 dust mask for limited exposures and use air-purifying respirators with high efficiency particulate air filters (HEPA filters) for prolonged exposures.

Eye Protection: Wear chemical goggles.

Skin Protection: Use nitrile, latex, or similar gloves and coveralls. Good personal hygiene practices are essential. After handling the product, avoid food, tobacco products, or other means of transferring the product from hand to mouth until after thoroughly washing.

SECTION IX. Physical and Chemical Properties

Appearance and Odor: Clear to opaque liquid solution with a slight acidic odor.

Specific Gravity: ~ 1.3 as mixed in extinguisher.

pH: Approximately 10 –11 in 10% solution, 8.5 – 9.0 as mixed in extinguisher

Flash Point: N/A

Flammability: N/A

Vapor Pressure: < 10 mm Hg at room temperature

Explosive or Oxidizing Properties: None

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SECTION X. Stability and Reactivity

Stability: Stable

Incompatibles: Strong acids, bases, and oxidizers (bleach).

Decomposition Products: Heat of fire may release carbon monoxide and carbon dioxide.

Hazardous Polymerization: Will not occur

Hazardous Reactions: None

SECTION XI. Toxicological Information

Acute Toxicity: Potassium Acetate LD₅₀ oral (rat): 3250 mg/kg body weight.
Target organs in humans: respiratory system, eyes, and skin. This product is a mild irritant to epithelial tissue and may aggravate dermatitis. Ingestion may cause gastrointestinal injury. No indication that 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 is not known to have any reproductive effects.

SECTION XII. Ecological Information

Ecotoxicity: Weak environmental toxin. Specific negative effects are unknown.

Degradability: Moderate biodegradation in soil. Rapid photolytic degradation in air

Bioaccumulation: Unknown extent.

Mobility in Soil: Water-soluble. Slow to evaporate. May leech in to groundwater.

SECTION XIII. Considerations for Disposal

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 regulations. Be aware that product used on a fire may be altered or contaminated and thereby require different disposal considerations.

SECTION XIV. Transportation Information

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

SECTION XV. Regulatory Information

International Inventory Status: Some ingredients are on the following inventories

<u>Country</u>	<u>Agency</u>
U.S.A.	TSCA
Canada	DSL
Europe	EINECS/ELINCS
Australia	AICS
Japan	MITI
South Korea	KECL

European Risk and Safety Phrases:

EU Classification- Xi Irritant

R Phrases- 36 Irritating to eyes, respiratory system, and skin.

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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 or CERCLA Reportable Quantities.

State Regulatory Information:

Chemicals in this product are covered under the specific State regulations noted:

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 List

SECTION XVI. Other Information

This MSDS conforms to the requirements under U.S., U.K., Canadian, Australian, and EU Regulations or Standards. It conforms to the proposed 2003 ANSI Z400.1 format.

The information contained herein is given in good faith as typical values and not as product specifications. No warranty, either expressed or implied, is hereby made.