



Safety Data Sheet

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2024 and GHS Rev 07

Date of issue: 11/17/2024

Revised on 11/17/2024

1 Identification

Product Identifier

Trade Name: Wet Chemical Fire Extinguishant**Relevant identified uses of the substance or mixture and uses advised against:****Product Description:** Fire suppression, not for human or animal drug use.

Details of the Supplier of the Safety Data Sheet:

Manufacturer/Supplier:

Buckeye Fire Equipment Company
110 Kings Road
Kings Mountain, NC 28086
P: 704-739-7415
www.buckeyefire.com
bfec@buckeyef.com

Emergency telephone number:

CHEMTREC, 24 hours
Inside the US or Canada: 1-800-424-9300
Outside of the US or Canada: +1-703-527-3887

2 Hazard(s) Identification

Classification of the substance or mixture:

The product does not need classification according to OSHA HazCom Standard 29 CFR paragraph (d) of §1910.1200(g) and GHS Rev 03.

Label elements:**Hazard pictograms:** Non-Regulated Material**Signal word:** Non-Regulated Material**Hazard statements:** Non-Regulated Material**Unknown acute toxicity:**

This value refers to knowledge of known, established toxicological or ecotoxicological values.
10 % of the mixture consists of component(s) of unknown toxicity.

Information pertaining to particular dangers for man and environment:**Classification system:**

NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme

NFPA ratings (scale 0 - 4)**HMIS-ratings (scale 0 - 4)****Hazard(s) not otherwise classified (HNOC):** None known**Classification according to (d)(1)(ii) of § 1910.12000**

The SDS issuer does not object to the classifications provided by importers or manufacturers of precursor products.

Hazards not otherwise classified

There are no adverse physical or health effects known that are not covered by the hazard classes of the Hazard Communications Standard.

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3 Composition/Information on Ingredients

Non-hazardous components:

Non-Hazardous Components	100%
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Chemical characterization: Substance**Description:**

Mixture of substances listed with non-hazardous additions and/or components that are less than listing threshold. All non-hazardous, components listed under threshold, and listed component total 100%.

Dangerous Components: Non-Regulated Material**Additional information:**

The exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of §1910.1200 of 29 CFR 1910.1200 Trade Secrets.

4 First-Aid Measures

Description of first aid measures**General information:** If symptoms persist, call a physician.**After inhalation:** Move victim to fresh air. If irritation develops or persists, seek medical attention.**After skin contact:**

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

After eye contact:

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.

After swallowing:

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.

Most important symptoms and effects, both acute and delayed:

Contact with the skin may aggravate an existing skin disease. Chronic overexposure may affect blood cholinesterase levels and the central nervous system.

Indication of any immediate medical attention and special treatment needed: Treat symptomatically.

5 Fire-Fighting Measures

Extinguishing media**Suitable extinguishing agents:** Use fire fighting measures that suit the environment.**For safety reasons unsuitable extinguishing agents:** No further relevant information.**Special hazards arising from the substance or mixture:**

This product may decompose in fire and release oxides of carbon.

Advice for firefighters**Special protective equipment for firefighters:**

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

6 Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

Not required.

Handle and dispose of as a hazardous waste unless testing indicates otherwise. Decontaminate with detergent and water.

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Trade Name: Wet Chemical Fire Extinguishant**For emergency responders**

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.

Environmental precautions: Dilute with plenty of water.**Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust).
Dispose of contaminated material as waste according to section 13.
Ensure adequate ventilation.
Dispose of the collected material according to regulations.

PAC-1:		
127-08-2	Potassium Acetate	9.8 mg/m ³
866-84-2	Potassium Citrate Tribasic	2.1 mg/m ³
PAC-2:		
127-08-2	Potassium Acetate	110 mg/m ³
866-84-2	Potassium Citrate Tribasic	23 mg/m ³
PAC-3:		
127-08-2	Potassium Acetate	640 mg/m ³
866-84-2	Potassium Citrate Tribasic	140 mg/m ³

Reference to other sections:

See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and Storage

Precautions for safe handling:

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.

Information about protection against explosions and fires: No special measures required.**Conditions for safe storage, including any incompatibilities****Storage****Requirements to be met by storerooms and receptacles:** No special requirements.**Information about storage in one common storage facility:** Not required.**Further information about storage conditions:** None.**Specific end use(s):** No further relevant information available.

8 Exposure Controls/Personal Protection

Control parameters:**Components with occupational exposure limits:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

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Additional information:

The lists that were valid during the creation of this SDS were used as basis.

Exposure controls:

Appropriate engineering controls No further data; see section 7.

Personal protective equipment

General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Breathing equipment:



Dust mask

Protection of hands:



Protective gloves

Material of gloves: Not applicable.

Penetration time of glove material: Not applicable.

Eye protection:



Goggles recommended during refilling.

Limitation and supervision of exposure into the environment: None

9 Physical and Chemical Properties

Information on basic physical and chemical properties

General Information

Physical state

Liquid

Color:

Opaque

Odor:

Acidic

Odor threshold:

Not determined.

Melting point/Melting range:

Not determined.

Boiling point/Boiling range:

Not determined.

Flammability:

Not applicable.

Explosion limits:

Lower:

Not determined.

Upper:

Not determined.

Flash point:

None

Auto igniting:

Not applicable

Decomposition temperature:

Not determined.

pH-value @ 20 °C (68 °F):

8.5-9 (mixed in extinguisher)

Viscosity:

Kinematic:

Not determined.

Dynamic:

Not determined.

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Trade Name: Wet Chemical Fire Extinguishant**Solubility in / Miscibility with:**

Water:	Fully miscible.
Partition coefficient (n-octanol/water):	Not determined.
Vapor pressure:	Not determined.
Vapor pressure:	
Density @ 20 °C (68 °F):	1.3 g/cm ³ (10.8485 lbs/gal)
Relative density:	Not determined.
Vapor density:	Not determined.
Particle characteristics	Not applicable.

Other information:**Appearance:****Form:**

Liquid

Important information on protection of health and environment, and on safety.**Ignition temperature:**

Product is not self-igniting.

Danger of explosion:

Product does not present an explosion hazard.

Solvent content:**VOC content:**

0.00 %

Solids content:

<10.0 %

Change in condition**Evaporation rate:**

Not determined.

10 Stability and Reactivity

Reactivity: No further relevant information available.**Chemical stability:** Product is stable under normal conditions.**Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

Possibility of hazardous reactions: No dangerous reactions known.**Conditions to avoid:** No further relevant information available.**Incompatible materials:** Strong acids, bases, and oxidizers (bleach).**Hazardous decomposition products:** Heat of fire may release carbon monoxide and carbon dioxide.

11 Toxicological Information

Information on toxicological effects:**Acute toxicity:****LD/LC50 values that are relevant for classification:****127-08-2 Potassium Acetate**

Oral	LD50	3,250 mg/kg (Rat)
Inhalative	LC50/96 hours	922 mg/l (Zebra fish)

Primary irritant effect:**On the skin:** No irritating effect.**On the eye:** No irritating effect.**Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Interactive effects No interactive effects between components are known.

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Carcinogenic categories:

IARC (International Agency for Research on Cancer):
None of the ingredients are listed.
NTP (National Toxicology Program):
None of the ingredients are listed.
OSHA-Ca (Occupational Safety & Health Administration):
None of the ingredients are listed.

Alternative sources for toxicological information

No non-standard sources for toxicological information where used.

12 Ecological Information

Toxicity:

Aquatic toxicity:
127-08-2 Potassium Acetate
EC50 919 mg/l (Water flea)

Persistence and degradability: No further relevant information available.

Bioaccumulative potential: No further relevant information available.

Mobility in soil: No further relevant information available.

Results of PBT and vPvB assessment:

PBT: Not applicable.

vPvB: Not applicable.

Other adverse effects:

Additional ecological information:

General notes: Not known to be hazardous to water.

13 Disposal Considerations

Waste treatment methods

Recommendation:

Observe all federal, state and local environmental regulations when disposing of this material.

Waste disposal key:

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.

Uncleaned packaging

Recommendation: Disposal must be made according to official regulations.

Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport Information

UN-Number:

DOT, ADR/ADN, IMDG, IATA

Non-Regulated Material

UN proper shipping name:

DOT, ADR/ADN, IMDG, IATA

Non-Regulated Material

Transport hazard class(es):

DOT, ADR/ADN, ADN, IMDG, IATA

Class:

Non-Regulated Material



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Packing group:

DOT, ADR/ADN, IMDG, IATA

Non-Regulated Material

Environmental hazards:

Not applicable.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:

Not applicable.

Special precautions for user:

Not applicable.

UN "Model Regulation":

Non-Regulated Material

15 Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture:

No further relevant information available.

SARA (Superfund Amendments and Reauthorization):

Section 355 (extremely hazardous substances):

None of the ingredients are listed.

Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

TSCA (Toxic Substances Control Act):

All components have the value ACTIVE.

Hazardous Air Pollutants

None of the ingredients are listed.

California Proposition 65:

Chemicals known to cause cancer:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

New Jersey Right-to-Know List:

None of the ingredients are listed.

New Jersey Special Hazardous Substance List:

None of the ingredients are listed.

Pennsylvania Right-to-Know List:

None of the ingredients are listed.

Pennsylvania Special Hazardous Substance List:

None of the ingredients are listed.

Carcinogenic categories:

EPA (Environmental Protection Agency):

None of the ingredients are listed.

TLV (Threshold Limit Value established by ACGIH):

None of the ingredients are listed.



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None of the ingredients are listed.

GHS label elements Non-Regulated Material**Hazard pictograms:** Non-Regulated Material**Signal word:** Non-Regulated Material**Hazard statements:** Non-Regulated Material**National regulations:**

The product is not subject to be labelled according with the prevailing version of the regulations on hazardous substances.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.**16 Other Information**

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

Date of preparation 11/17/2024**Abbreviations and acronyms:**

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety and Health

OSHA: Occupational Safety & Health Administration

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

*** Data compared to the previous version altered.**

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