



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: Liquid Fire Suppression Agent

Relevant identified uses of the substance or mixture and uses advised against:

Product Description: Fire extinguishing agent

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:



Acute toxicity - oral 4 H302 Harmful if swallowed.

Eye irritation 2B H320 Causes eye irritation.

Label elements:

Hazard pictograms:



Signal word: Warning

Hazard statements:

H302 Harmful if swallowed.

H320 Causes eye irritation.

Precautionary statements:

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P301+P312 If swallowed: Call a poison center/doctor if you feel unwell.

P330 Rinse mouth.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Unknown acute toxicity:

This value refers to knowledge of known, established toxicological or ecotoxicological values.

0 % of the mixture consists of component(s) of unknown toxicity.

(Contd. on page 2)



Safety Data Sheet

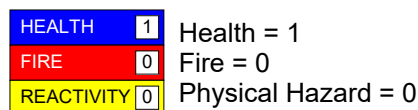
OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2024 and GHS Rev 07

Date of issue: 11/17/2024

Revised on 11/17/2024

Trade Name: Liquid Fire Suppression Agent**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.

3 Composition/Information on Ingredients

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:

CAS: 584-08-7	Potassium Carbonate	⚠ Acute toxicity - oral 4, H302	43-45%
RTECS: TS 7750000			

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:** Remove from exposure. If irritation persists seek medical attention.**After skin contact:**

Wash affected area with soap and water. If irritation persists seek medical attention.

After eye contact:

Wash with water for a minimum of 15 minutes. If irritation persists 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: No further relevant information available.

(Contd. on page 3)



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

Trade Name: Liquid Fire Suppression Agent

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: None

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:

Turn off or disconnect electrical sources in the immediate area.

For emergency responders

Use an absorbent material such as diatomaceous earth, sawdust, etc., and sweep up, see Heading 13.

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:		
584-08-7	Potassium Carbonate	5.6 mg/m ³
PAC-2:		
584-08-7	Potassium Carbonate	11 ppm
PAC-3:		
584-08-7	Potassium Carbonate	66 ppm

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:

Ensure good ventilation/exhaustion at the workplace.

Avoid eye, respiratory, and skin exposure. Use the appropriate personal protective equipment when handling.

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:

Keep Separate from acids. NO special conditions are needed for safe storage. Store in original container. Keep tightly closed until used. There is minimal danger to the environment from a storage release.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: None.



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

Trade Name: Liquid Fire Suppression Agent

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.

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: Not required.

Protection of hands:



Protective gloves

Material of gloves: Not applicable.

Penetration time of glove material: Not applicable.

Eye protection:



Safety glasses with side shields

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:

110 °C (230 °F)

Flammability:

Not applicable.

Explosion limits:

Lower:

Not determined.

Upper:

Not determined.

Flash point:

None

Auto igniting:

Not applicable

Decomposition temperature:

Not determined.

pH-value @ 25 °C (77 °F):

11.5

(Contd. on page 5)



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

Trade Name: Liquid Fire Suppression Agent

Viscosity:

Kinematic:

Not determined.

Dynamic:

Not determined.

Solubility in / Miscibility with:

Water:

Fully miscible.

Partition coefficient (n-octanol/water):

Not determined.

Vapor pressure @ 20 °C (68 °F):

≤23 hPa (≤17.3 mm Hg)

Vapor pressure:

Density @ 20 °C (68 °F):

1.4 g/cm³ (11.683 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 %

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:

Ammonium compounds, acids, corrodible metals (copper aluminum). Reactive metals may react with the water in this preparation. Energized electrical equipment may cause a shock hazard when this fire extinguishing agent is used.

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:

584-08-7 Potassium Carbonate

Oral	LD50	1,870 mg/kg (Rat)
------	------	-------------------

Primary irritant effect:

On the skin: No irritating effect.

On the eye: Irritating effect.

Additional toxicological information:

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

(Contd. on page 6)



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

Trade Name: Liquid Fire Suppression Agent

Harmful

Interactive effects No interactive effects between components are known.

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: No further relevant information available.

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



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

Trade Name: Liquid Fire Suppression Agent

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.



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

Trade Name: Liquid Fire Suppression Agent**NIOSH-Ca (National Institute for Occupational Safety and Health):**

None of the ingredients are listed.

GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms:**Signal word:** Warning**Hazard statements:**

H302 Harmful if swallowed.

H320 Causes eye irritation.

Precautionary statements:

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P301+P312 If swallowed: Call a poison center/doctor if you feel unwell.

P330 Rinse mouth.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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 previous version 11/17/2024**Version number of previous version:** 2**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

(Contd. on page 9)



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

Trade Name: Liquid Fire Suppression Agent

OSHA: Occupational Safety & Health Administration

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Acute toxicity - oral 4: Acute toxicity – Category 4

Eye irritation 2B: Serious eye damage/eye irritation – Category 2B

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

SDS created by MSDS Authoring Services www.msdsauthoring.com +1-877-204-9106