

**SAFETY DATA SHEET**  
**PURPLE K DRY CHEMICAL**

**SECTION I. Chemical Product and Company Identification**

Product Name: Purple K Dry Chemical Fire Extinguishant  
Synonym: Potassium Bicarbonate, PK  
Manufacturer: Buckeye Fire Equipment Company  
110 Kings Road  
Kings Mountain, NC 28086  
Telephone: 704.739.7415  
Web Address: [www.buckeyefire.com](http://www.buckeyefire.com)  
Email Address: [bfec@buckeyef.com](mailto:bfec@buckeyef.com)  
Recommended Use: Fire suppression, not for human or animal drug use.  
Emergency: CHEMTREC 1.800.424.9300  
Revision Date: 01/2018

**SECTION II. Hazard Identification and Emergency Overview**

*GHS – Classification:*

Eye Irritation: Class 2B  
Skin Irritation: Class 3  
Inhalation: Class 5

*GHS Label Elements:*



Hazard Symbols:  
Signal Word: WARNING

*Hazard Statements:*

H313 May be harmful in contact with skin.  
H320 Causes eye irritation  
H333 May be harmful if inhaled.

*Precautionary Statements:*

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P234 Keep in original container.  
P251 Pressurized container; do not pierce or burn, even after use  
P261 Avoid breathing dust  
P264 Wash hands and face thoroughly after handling  
P270 Do not eat, drink, or smoke when using this product  
P281 Use personal protective equipment as required  
P285 In case of inadequate ventilation, wear respiratory protection  
P301+322 If swallowed, drink 2-3 glasses of water.  
P302+352 If on skin, wash with soap and water  
P304+313+341 If inhaled, and if distress occurs, remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek medical advice/attention.  
P305+351+338 If in eyes, rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do, and continue to rinse.  
P337+313 If eye irritation persists, get medical advice/attention.  
P401+402+403 Store in original container in a dry, well ventilated place.

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### SECTION III. Composition/Information on Ingredients

This product is a mixture.

Chemical Name	Weight %*	CAS #
Potassium Bicarbonate (Potassium Hydrogen Carbonate)	93	298-14-6
Barium Sulfate	1.5	7727-43-7
Mica (Potassium Aluminum Silicate)	4	12001-26-2
Silicone (Methylhydrogen siloxane)	0.5	63148-57-2
Pigment	< 0.1	6358-30-1

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

### SECTION IV. First Aid Measures

*Eye Exposure-* Flush eyes with water until pain-free. If irritation develops or persists, 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.

*Ingestion-* If victim is conscious and alert, give 2-3 glasses of water to drink and induce vomiting. Prevent aspiration of swallowed product by laying victim on side with head lower than their waist. Seek medical attention. Do not leave victim unattended.

*Medical Conditions Possibly Aggravated by Exposure-* Inhalation of the product may aggravate existing chronic respiratory conditions such as asthma, emphysema, or bronchitis. Contact with the skin may aggravate an existing skin disease. Chronic overexposure may cause pneumoconiosis ("Dusty Lung" disease).

### 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:* When involved in a fire, this material may decompose to produce irritating fumes such as carbon monoxide and carbon dioxide.

*Sensitivity to Mechanical Impact or Static Discharge:* None

### SECTION VI. Accidental Release Measures

In case of accidental release, use the appropriate respiratory protection. Clean up the product using a vacuum or wet sweep and shovel to minimize the generation of dust. Bag or drum the product for disposal. If the product is used and/or contaminated, use personal protective equipment and containment means that are appropriate for the composition of the mixture. Product should be prevented from entering waterways.

### 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. When the product is contained under pressure (e.g., an extinguisher), inspect the container for rust or damage that may compromise the container integrity. Do not store the product in high humidity and do not mix with other extinguishing agents, particularly ammonium phosphate based agents.

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### SECTION VIII. Exposure Controls and Personal Protection

#### Exposure Guidelines:

	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Potassium Bicarbonate	Particulates Not Otherwise Classified Total Dust- 15 mg/m <sup>3</sup> Respirable Fraction- 5 mg/m <sup>3</sup>	Particulates Not Otherwise Classified Total Dust- 10 mg/m <sup>3</sup> Respirable Fraction- 3 mg/m <sup>3</sup>
Barium Sulfate	Particulates Not Otherwise Classified Total Dust- 15 mg/m <sup>3</sup> Respirable Fraction- 5 mg/m <sup>3</sup>	Particulates Not Otherwise Classified Total Dust- 10 mg/m <sup>3</sup> Respirable Fraction- 3 mg/m <sup>3</sup>
Mica	6 mg/m <sup>3</sup>	3 mg/m <sup>3</sup>
Silicone	Not Regulated	Not Regulated
Pigment	Not Regulated	Not Regulated

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 dust mask or respirator is prudent. The need for respiratory protection is not likely for short-term use in well-ventilated areas.

*Respiratory Protection:* 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 or full-face air-purifying respirator.

*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:* Light purple fine powder that is odorless.

*Apparent Density:* 0.88

*Solubility:* The product is coated with water repellent silicone. Not immediately soluble in water.

*pH:* Approximately 9-10 for a 10% solution

*Flash Point:* N/A

*Flammability:* N/A

*Vapor Pressure:* N/A

*Boiling Point:* N/A

*Explosive or Oxidizing Properties:* None

### SECTION X. Stability and Reactivity

*Stability:* Stable

*Incompatibles:* Ammonium phosphate, lithium, and strong acids

*Decomposition Products:* This product may decompose in fire and release carbon monoxide, carbon dioxide, and oxides of potassium and nitrogen.

*Hazardous Polymerization:* Will not occur

*Hazardous Reactions:* None

### SECTION XI. Toxicological Information

*Acute Toxicity:* Potassium bicarbonate LD50 (rat): Not Known. Testing has not been conducted. This product is relatively non-toxic.

Target organs in humans: respiratory system. The product is a mild irritant to eyes, mucous membranes, and skin. It may aggravate dermatitis. No indication that the product causes sensitization.

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*Chronic Toxicity:* Pneumoconiosis, or “Dusty Lung” disease, may result from chronic exposure to any dust.

*Reproductive Toxicity:* This product is not known to have any reproductive effects.

### SECTION XII. Ecological Information

*Ecotoxicity:* Negative effects are unknown. Provides nutrient phosphorus to plant life.

*Degradability:* Degrades rapidly in wet or humid environment.

*Bioaccumulation:* Unknown extent.

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

### SECTION XIII. 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 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.

Please Note: Although this material is not considered hazardous, when contained in a stored pressure fire extinguisher pressurized with a nonflammable gas, the extinguisher itself is considered a hazardous material by the U.S. Department of Transportation (USDOT) and Transport Canada (TC). The proper shipping name shall be Fire Extinguisher and the UN Identification Number is UN 1044. The USDOT hazard class is Limited Quantity when pressurized to less than 241 psig and when shipped via highway or rail. Use Class 2.2, Non-Flammable Gas, when shipping via air.

### SECTION XV. Regulatory Information

*International Inventory Status:* All 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- Irritant

R Phrases- 20 Harmful by inhalation  
36/37 Irritating to eyes and respiratory system

S Phrases- 22 Do not breathe dust  
24/25 Avoid contact with skin and eyes  
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, or are regulated under TSCA 8(d).

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### *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- Mica dust
Illinois	Toxic Substance List- None
Kansas	Section 302/303 List- None
Massachusetts	Substance list- Mica dust
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- Mica dust
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 Safety Data Sheet prepared in accordance with OSHA's Hazard Communication Standard (29 CFR 1910.1200) and the Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

#### HMIS RATINGS:

Health            1  
Flammability    0  
Reactivity        0

Personal Protective Equipment: use N-95 dust mask (See Section 8)

#### WHMIS (Canadian Workplace Hazardous Materials Identification)

D2B- May irritate eyes, mucous membranes, and/or skin

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.