

MATERIAL SAFETY DATA SHEET

Emergency # (800) 424-9300

4251 Seminole Trail

Charlottesville, VA 22911 (434) 973-4361

Date: July, 2002

ABC Dry Chemical

SECTION 1 - NAME & HAZARD SUMMARY

Material name: DRY CHEMICAL Multipurpose Ammonium Phosphate

Manufacturer: Badger Fire Protection, Inc. Phone (434) 973-4361

SECTION 2 - INGREDIENTS

Material name: Siliceous Muscovite Mica, Mica

OSHA PEL: 20 MPPCF* **ACGIH TLV:** 20 MPPCF* **Other Exposure Limits:** None **CAS No.:** 12001-26-2

*Million particles per cubic foot

SECTION 3 - PHYSICAL DATA

Boiling Point: NA

Specific Gravity (H2O = 1): 1.80

Vapor Pressure (mm Hg): NA

Vapor Density (Air - 1): NA **Solubility In Water:** Slightly water soluble

Appearance Yellow power w/and odor: no appearable odor

Melting Point: 374° Fahrenheit

SECTION 4 - FIRE & EXPLOSION HAZARD

Flash Point: Noncombustible

Method Used: NA

Flammable Limits in Air % by Volume: LEL Lower: NA

UEL Upper: NA

Auto-Ignition Temperature: NA

Extinguisher Media: NA, This material is a fire extinguisher agent

Special Fire Fighting Procedures: NA

Unusual Fire and Explosion Hazards: NA

SECTION 5 - REACTIVITY DATA

Stability: Stable

Conditions to Avoid: NA

Incompatibility: (Materials to Avoid): Do not mix with different types of dry chemical extinguishing agents.

Hazardous Polymerization: Will Not Occur

Conditions to Avoid: NA

SECTION 6 - HEALTH HAZARD ASSESSMENT

Acute: Transient cough, Irritation of airways, and shortness of breath **Chronic:** Pneumonconiosis

Signs and Symptoms of Exposure: Coughing and irritation of airways

Medical Conditions Generally Aggravated by Exposure: Asthma, Bronchitis, or other respiratory illness

Chemical Listed as Carcinogen or Potential Carcinogen: N/A

Emergency and First Aid Procedures: Move victims to fresh air. Wash affected area with soap and water. Flush from eyes with large amounts of water for at least 15 minutes. Seek medical attention if necessary.

Routes of entry: Inhalation, Eyes, Skin, Ingestion

SECTION 7 - SPILL OR LEAK PROCEDURES

Precautions to be Taken in Handling and Storage: Multipurpose (ABC) Dry Chemical should be stored in original container or in sealed extinguishers.

Other Precautions: None

Steps to be Taken in Case Material is Released or Spilled: Sweep up. Store in covered containers. Do NOT reuse.

DRY CHEMICAL Multipurpose Ammonium Phosphate continued

SECTION 8 - SPECIAL PROTECTION INFORMATION

Respiratory Protection: Dust respirator approved by NIOSH/MSHA schedule TC-ZIC

Ventilation: NA **Local Exhaust:** NA **Mechanical General:** NA **Special:** NA **Other:** NA

Protective Gloves: Sensitive individuals should wear gloves

Eye Protection: Safety glasses are recommended **Other Protective Clothing or Equipment:** NA

Work/Hygienic Practices: Avoid breathing of dust. Wash off with soap and water.

The information herein is given in good faith but no warranty, expressed or implied, is made.

MATERIAL SAFETY DATA SHEET

Emergency # (800) 424-9300

4251 Seminole Trail

Charlottesville, VA 22911 (434) 973-4361

Date: July, 2002

BC Dry Chemical

SECTION 1 - NAME & HAZARD SUMMARY

Material name: BC Dry Chemical Powder Mixture of sodium bicarbonate, silicates and stearates

Manufacturer: Badger Fire Protection, Inc. Phone (434) 973-4361

SECTION 2 - INGREDIENTS

Potentially Hazardous Ingredients: None

Other Ingredients: Water: Wt PCT (Approx): 0.2

Sodium bicarbonate: Wt PCT (Approx): 90.0

Mineral silicates and stearates: Wt PCT (Approx): 9.8

SECTION 3 - PHYSICAL DATA

pH: Appearance: white powder

Odor: None

Viscosity At 100°F, Sus: Not Applicable **At 40°C, CS:** Not Applicable

Viscosity at 210°F, Sus: Not Applicable

At 100°C, CS: Not Applicable **Flash Point °F(°C):** Not Applicable

Melting Point °F(°C): Not Established

Pour Point °F(°C): Not Applicable

Boiling Point °F(°C): Not Applicable

Relative Density, 20/4°C: 2

Apparent Density: 1 q/cm³ **Vapor Pressure mm Hg 20°C:** Not Applicable

Solubility in Water: Partially Soluble

SECTION 4 - FIRE & EXPLOSION HAZARD

Flash point : NA **Flammable Limits in Air % by Volume: LEL Lower:** NA **UEL Upper:** NA

Extinguisher Media: NA **Special Fire Fighting Procedures:** This material will not burn. However, use standard chemical firefighting procedures and consider the hazards of other involved materials. For fires in enclosed areas, firefighters must use self-contained breathing apparatus. Prevent runoff from fire control or dilution from entering streams or drinking water supply.

Unusual Fire and Explosion Hazards: None **NFPA Hazard ID: Health:** 1, **Flammability:** 0, **Reactivity:** 0

SECTION 5 - REACTIVITY DATA

Stability: Stable **Conditions to Avoid:** Extreme heat **Incompatibility (Materials to Avoid):** None

Hazardous Decomposition Products: Carbon dioxide and carbon monoxide. **Hazardous Polymerization:** Will not occur

SECTION 6 - HEALTH HAZARD ASSESSMENT

D.O.T. Shipping Name: NA **D.O.T. Hazard Class** NA

U.S. OSHA Hazard Communication Standard: Product assessed in accordance with OSHA 29 CFR 1910.1200 and determined not to be hazardous.

RCRA Information: The product, in our opinion, is not specifically listed by the EPA as hazardous waste (40 CFR, Part 261D); does not exhibit the hazardous characteristics of ignitability, corrosivity, or reactivity, and is not formulated with metals cited in the EP toxicity test. U.S. Superfund Amendments and Reauthorization Act (SARA) Title: III: This product contains no "Extremely Hazardous Substances: SARA (302) Reportable Hazard Categories: none This product is not formulated to contain PCBs nor Asbestos.

Includes aggravated medical conditions, if established - effects of overexposure: Prolonged breathing of dusts may cause respiratory irritation. Moderate eye irritation. Slight skin irritation.

SECTION 7 - SPILL OR LEAK PROCEDURES

Emergency and First Aid Procedures: **Eye Contact:** Flush thoroughly with water for at least 15 minutes. Get medical assistance.

Skin Contact: Wash contact areas with soap and water.

Inhalation: Remove from further exposure. If unconsciousness occurs, seek immediate medical assistance and call a physician. If breathing has stopped, use mouth to mouth resuscitation.

Ingestion: Not expected to be a problem.

Environmental Impact: Report spills as required to appropriate authorities. U.S. Coast Guard regulations require immediate reporting of spills that could reach any waterway including intermittent dry creeks. Report spill to Coast Guard toll free number 800-424-8802. In case of accident or road spill notify Chemtrec 800-423-8802.

Procedures If Material Is REleased Or Spilled: Shove up and dispose of at an appropriate waste disposal facility in accordance with current applicable laws and regulations, and product characteristics at time of disposal.

Waste Management: Dispose of waste at an appropriate waste disposal facility in accordance with current applicable laws and regulations, and product characteristics at time of disposal.

SECTION 8 - SPECIAL PROTECTION INFORMATION

Eye Protection: Chemical type goggles should be worn.

Skin Protection: No special equipment required. However, good personal hygiene practices should always be followed.

Respiratory Protection: Approved dust respirators must be used for dusty conditions or if dust levels exceed established standards. No special requirements under ordinary conditions of use and with adequate ventilation.

Ventilation: Use well ventilated area.

Handling: Avoid contact with eyes. Avoid inhalation of dusts.

The information herein is given in good faith but no warranty, expressed or implied, is made.

MATERIAL SAFETY DATA SHEET

Emergency # (800) 424-9300

4251 Seminole Trail

Charlottesville, VA 22911 (434) 973-4361

Date: July, 2002

Purple K

SECTION 1 - NAME & HAZARD SUMMARY

Material name: Purple K Dry Chemical Powder. Mixture of potassium and sodium, bicarbonates, silicates and silica.

Manufacturer: Badger Fire Protection, Inc. Phone (434) 973-4361

SECTION 2 - INGREDIENTS

Other Ingredients: Water: Wt PCT (Approx): 0.2 Sodium bicarbonate: Wt PCT (Approx): 0-15

Mineral silicates and stearates: Wt PCT (Approx): 9.8 Potassium bicarbonate: 75-90

SECTION 3 - PHYSICAL DATA

pH: Appearance: purple powder

Odor: None

Viscosity At 100°F, Sus: Not Applicable

At 40°C, CS: Not Applicable

Viscosity at 210°F, Sus: Not Applicable

At 100°C, CS: Not Applicable

Flash Point °F(°C): Not Applicable

Melting Point °F(°C): Not Established

Pour Point °F(°C): Not Applicable

Boiling Point °F(°C): Not Applicable

Relative Density, 20/4°C: 2

Apparent Density: 1 g/cm³

Vapor Pressure mm Hg 20°C: Not Applicable

Solubility in Water: Partially Soluble

SECTION 4 - FIRE & EXPLOSION HAZARD

Flash point : NA **Flammable Limits in Air % by Volume:** LEL Lower: NA UEL Upper: NA

Extinguisher Media: NA

Special Fire Fighting Procedures: This material will not burn. However, use standard chemical firefighting procedures and consider the hazards of other involved materials. For fires in enclosed areas, firefighters must use self-contained breathing apparatus. Prevent runoff from fire control or dilution from entering streams or drinking water supply.

Unusual Fire and Explosion Hazards: None

NFPA Hazard ID: Health: 1, Flammability: 0, Reactivity: 0

SECTION 5 - REACTIVITY DATA

Stability: Stable

Conditions to Avoid: Extreme heat

Incompatibility (Materials to Avoid): None

Hazardous Decomposition Products: Carbon dioxide and carbon monoxide and oxides of silicon.

Hazardous Polymerization: Will not occur

SECTION 6 - HEALTH HAZARD ASSESSMENT

D.O.T. Shipping Name: NA

D.O.T. Hazard Class NA

U.S. OSHA Hazard Communication Standard: Product assessed in accordance with OSHA 29 CFR 1910.1200 and determined not to be hazardous.

RCRA Information: The product, in our opinion, is not specifically listed by the EPA as hazardous waste (40 CFR, Part 261D); does not exhibit the hazardous characteristics of ignitability, corrosivity, or reactivity, and is not formulated with metals cited in the EP toxicity test. U.S. Superfund Amendments and Reauthorization Act (SARA) Title: III: This product contains no "Extremely Hazardous Substances: SARA (302) Reportable Hazard Categories: none This product is not formulated to contain PCBS nor Asbestos.

Includes aggravated medical conditions, if established - effects of overexposure: Prolonged breathing of dusts may cause respiratory irritation. Moderate eye irritation. Slight skin irritation.

SECTION 7 - SPILL OR LEAK PROCEDURES

Emergency and First Aid Procedures: Eye Contact: Flush thoroughly with water for at least 15 minutes. Get medical assistance.

Skin Contact: Wash contact areas with soap and water.

Inhalation: Remove from further exposure. If unconsciousness occurs, seek immediate medical assistance and call a physician. If breathing has stopped, use mouth to mouth resuscitation.

Ingestion: Not expected to be a problem.

Environmental Impact: Report spills as required to appropriate authorities. U.S. Coast Guard regulations require immediate reporting of spills that could reach any waterway including intermittent dry creeks. Report spill to Coast Guard toll free number 800-424-8802. In case of accident or road spill notify Chemtrec 800-423-8802.

Procedures If Material Is Released Or Spilled: Shove up and dispose of at an appropriate waste disposal facility in accordance with current applicable laws and regulations, and product characteristics at time of disposal.

Waste Management: Dispose of waste at an appropriate waste disposal facility in accordance with current applicable laws and regulations, and product characteristics at time of disposal.

SECTION 8 - SPECIAL PROTECTION INFORMATION

Eye Protection: Chemical type goggles should be worn.

Skin Protection: No special equipment required. However, good personal hygiene practices should always be followed.

Respiratory Protection: Approved dust respirators must be used for dusty conditions or if dust levels exceed established standards. No special requirements under ordinary conditions of use and with adequate ventilation.

Ventilation: Use well ventilated area.

Handling: Avoid contact with eyes. Avoid inhalation of dusts.

The information herein is given in good faith but no warranty, expressed or implied, is made.