

MSDS

PKD Dry Chemical Fire Extinguishing Agent

1. IDENTIFICATION

Manufacturer:	Flag Fire Equipment Hwy #2 & Patillo Road, RR#1 Tecumseh, Ontario N8N 2L9 Emergency Phone: (519)727-6722 Technical Information: (519)727-6722
Chemical Name:	Purple K Dry Chemical (Potassium Bicarbonate)
Chemical Family:	Mixture
Formula:	KHCO ₃
Identifier:	Fire Extinguisher BC Purple K Dry chemical Fire Extinguisher Powder BC
Product Use:	Used in the application of extinguishing fires.

2. INGREDIENTS

Hazardous Ingredients:	0.44%, Cas #14808-60-7, LD50: Not Available, LC50: Not Available
Crystalline Silica	
Other Ingredients:	<u>Cas #</u>
Potassium Bicarbonate	298-14-6
Mica	12001-26-2

Fire extinguishers contain compressed air to ensure a high velocity discharge of product. WHMIS Class A.

3. PHYSICAL DATA

Physical State:	Solid
Odour and Appearance:	Purple Crystal and odourless
Odour Threshold (ppm):	Not Applicable
Vapour Pressure (mm Hg):	Not Applicable
Evaporation Rate:	None
Boiling Point:	Not Applicable
Freezing Point:	Not Applicable
pH:	Not Determined
Specific Gravity:	2.16 (H ₂ O=1)
Solubility in Water:	23 grams / 100 ml H ₂ O

4. FIRE & EXPLOSION HAZARD DATA

Flash Point (°C) and Method::	Non-flammable
Means of Extinction:	None required
Upper Flammable Point:	Not applicable
Lower Flammable Point:	Not applicable
Auto Ignition Temperature (°C)	Not applicable
Hazardous Combustion Products:	None known
Explosion Data:	Not applicable

Sensitivity to Impact: Not applicable
Sensitivity to Static Discharge:

5. REACTIVITY DATA

Stability: Stable
Incompatibility: Do not mix with strong acids
Hazardous Decomposition Products: Decomposes if heated above 100°C - 120°C. Carbon Dioxide and Potassium Oxide produced.

6. TOXICOLOGICAL PROPERTIES

Effects of Overexposure: At high dust concentrations, irritation of eyes, skin and mucus membranes by chemical or mechanical action may occur.
Exposure Limits: Not Available
Irritancy of Product: Not Available
Sensitization to Product: Not Available
Carcinogenicity: While not considered a carcinogen, the product does contain minute traces of Crystalline Silica. Crystalline Silica has been determined by IARC to contain limited evidence of being carcinogenic in humans and sufficient evidence in animals. It is not listed as a carcinogen by OSHA or ACGIH.
Teratogenicity: None
Reproductive Toxicity: None
Mutagenicity: None
Synergistic Products: Not Available

7. PREVENTATIVE MEASURES

Gloves: Not required.

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Respirator: If in high dust concentration, wear a properly fitted NIOSH-approved self-contained breathing respirator.
Footwear: Standard footwear.
Clothing: Work clothing.
Eyewear: Safety glasses with side shields.
Engineering Controls: Adequate ventilation should be available to maintain dust levels below applicable standards on respirable and total nuisance dust (at recharge stations only).
Leak and Spill Procedure: Ensure cleanup is performed by trained personnel only. Shovel or sweep up dry material for recycling or disposal. Flush residue with water.
Waste Disposal: Review federal, provincial/state, and local government requirements prior to disposal.
Handling Procedures: Avoid container damage
Storage: Cool dry areas away from acids

Requirements:**Special Shipping****Information:**

Fire Extinguisher Class 2.2 UN #1044

8. FIRST AID MEASURES

- Inhalation:** If breathing difficulty occurs because of dust inhalation, remove to fresh air.
- Ingestion:** If person is conscious, give large amounts of water, milk. Get medical attention.
- Eye Contact:** If eye irritation occurs, flush with copious amounts of water. Get medical attention if irritation persists.
- Skin Contact** Wash with mild soap and water.

9. PREPARATION DATE OF MSDS

Prepared by: Health and Safety

Date: January 1, 2004

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