

## SECTION 1 - IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

### PRODUCT IDENTIFIER:

# FLAMESTOP BE EXTINGUISHER (PURPLE K)

### OTHER MEANS OF IDENTIFICATION:

POTASSIUM BICARBONATE, KDC, PK

**M30PK** FLAMESTOP 30KG BE 'PURPLE K' MOBILE EXTINGUISHER

**M50PK** FLAMESTOP 50KG BE 'PURPLE K' MOBILE EXTINGUISHER

**M70PK** FLAMESTOP 70KG BE 'PURPLE K' MOBILE EXTINGUISHER

**M90PK** FLAMESTOP 90KG BE 'PURPLE K' MOBILE EXTINGUISHER

### RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST:

Relevant identified uses: fire extinguishing agent

### DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:

**Supplier:** FlameStop  
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**PREPARED IN ACCORDANCE WITH THE NATIONAL CODE OF PRACTICE FOR THE PREPARATION OF MATERIAL SAFETY DATA SHEETS 2ND EDITION [NOHSC:2011(2003)]**

## SECTION 2 - HAZARD(S) IDENTIFICATION

### CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:


Classification according to the the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia

Classified as dangerous - Gases under Pressure - Compressed Gas

Classification according to the the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th Edition)

Classified as Dangerous Goods

### LABEL ELEMENTS:

<b>Hazard pictograms</b>	
<b>Pictogram code</b>	GHS04 Gas Cylinder
<b>Signal word</b>	<b>WARNING</b>
<b>Hazard statements</b>	
<b>Physical Hazards</b>	<b>H280</b> Contains gas under pressure; may explode if heated.
<b>Health Hazards</b>	
<b>Environmental Hazards</b>	
<b>Combinations</b>	
<b>Precautionary statements</b>	
<b>General</b>	
<b>Prevention</b>	
<b>Response</b>	
<b>Storage</b>	<b>P410+P403</b> Protect from sunlight. Store in a well ventilated space.

### OTHER HAZARDS:

No other hazards.

## SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

### MIXTURE INGREDIENTS

Ingredient (Designation)	CAS No.	Weight-%	Trade Secret
Attapulgite	298-14-6	1-5	*
Mica	8031-18-3	1-5	*
Carbon black	12001-26-2	0.1-1	*

\*The exact percentage (concentration) of composition has been withheld as a trade secret

## SECTION 4: FIRST AID MEASURES

### DESCRIPTION OF FIRST AID MEASURES:

#### After inhalation

Remove victim to fresh air.

#### After skin contact

Wash with of soap and water.

#### After eye contact

Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician

#### After ingestion

Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person.

### MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE, DELAYED AND AGGREGATED

No information available.

### INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Notes to Physician: treat symptomatically

## SECTION 5: FIREFIGHTING MEASURES

### EXTINGUISHING MEDIA

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. CAUTION: Use of water spray when fighting fire may be inefficient.

### SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

In a fire this material may decompose, releasing oxides of carbon and nitrogen (NOx)

### ADVICE FOR FIREFIGHTERS

Insensitive to mechanical impact or static discharge.

#### Appropriate personal protective equipment for fire fighters:

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### Hazchem code:

No Hazchem Code issued to these articles. No HIN issued under RID and ADR.

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

### PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

Avoid contact with skin, eyes or clothing. Refer to protective measures listed in Sections 7 and 8.

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### ENVIRONMENTAL PRECAUTIONS

Refer to protective measures listed in Sections 7 and 8.

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### METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

Prevent further leakage or spillage if safe to do so. Pick up and transfer to properly labeled containers.

## SECTION 7 - HANDLING AND STORAGE

### PRECAUTIONS FOR SAFE HANDLING

#### Advice on safe use of product:

AVOID: Avoid skin, eye, or respiratory exposure

#### Advice on safe handling:

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.

#### Environmental precautions:

No information available.

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### CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

#### Technical measures and storage conditions:

Keep container tightly closed. Keep/store only in original container. Keep away from heat.

#### Incompatible products:

Strong oxidizing agents. Strong acids.

#### Requirements for storage rooms and containers:

no information available

#### Suitable container/equipment material:

No information available.

#### Unsuitable container/equipment material:

No information available.

#### Information on combines storage:

No information available.

## SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

### CONTROL PARAMETERS / OCCUPATIONAL EXPOSURE LIMIT VALUES

No exposure standards have been established for this mixture or its ingredients by Safe Work Australia. However, the available exposure limits for the ingredients are listed below:

Exposure guidelines				
Ingredient	CAS No.	ACGIH TLV*	OSHA PEL**	NIOSH IDLH***
<b>Attapulgite</b>	<b>12174-11-7</b>	TWA: 1mg/m <sup>3</sup> respirable fraction	-	
<b>Mica</b>	<b>12001-26-2</b>	TWA: 3mg/m <sup>3</sup>	TWA: 3.5mg/m <sup>3</sup> (vacated) TWA: 3.5mg/m <sup>3</sup>	IDLH: 1500mg/m <sup>3</sup> containing <1% quartz TWA: 3mg/m <sup>3</sup> respirable dust
<b>Carbon Black</b>	<b>1333-86-4</b>	TWA: 3mg/m <sup>3</sup> inhalable fraction	TWA: 3mg/m <sup>3</sup> (vacated) TWA: 3.5 mg/m <sup>3</sup>	IDLH: 1750 mg/m <sup>3</sup> TWA: 3.5 mg/m <sup>3</sup> TWA: 0.1 mg/m <sup>3</sup> Carbon black in presence of Polycyclic aromatic hydrocarbons PAH

\*ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value \*\*OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits \*\*\*NIOSH IDLH Immediately Dangerous to Life or Health

### EXPOSURE CONTROLS

#### Appropriate engineering controls:

Showers  
Eyewash stations  
Ventilation systems

#### Individual protective measures, e.g. Personal Protective Equipment:

Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.

#### Eye and face protection:

Wear safety glasses with side shields (or goggles).

#### Skin and body protection:

Wear protective gloves and protective clothing.

#### Respiratory protection:

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. Effective dust mask.

#### Thermal Hazards:

No information available.

## INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b> - Physical state: - Colour:	Finely divided solid Solid - powder Lavender
<b>Odour:</b>	Odourless
<b>Odour threshold:</b>	no information available
<b>pH:</b>	Approximately 9-10 for a 10% solution
<b>Melting/freezing point (°C):</b>	100-120
<b>Boiling point/boiling range (°C):</b>	no information available
<b>Flash Point</b>	No data available
<b>Evaporation Rate</b>	No data available
<b>Flammability (solid, gas)</b>	No data available
<b>Flammability Limit in Air</b> <b>Upper limit</b> <b>Lower limit</b>	not flammable not flammable
<b>Vapour Pressure</b>	<1mmHg
<b>Vapour density</b>	No data available
<b>Specific Gravity</b>	Approx. 2.17
<b>Water Solubility</b>	Insoluble in water
<b>Solubility in other solvents</b>	No data available
<b>Partition coefficient: n-otanol/water</b>	No data available
<b>Autoignition temperature</b>	No data available
<b>Decomposition temperature</b>	100-120°C (KHC03)
<b>Kinematic viscosity</b>	No data available
<b>Dynamic viscosity</b>	No data available
<b>Explosive properties</b>	No data available
<b>Oxidizing properties</b>	No data available

## SECTION 10 - STABILITY AND REACTIVITY

### REACTIVITY

No data available.

### CHEMICAL STABILITY

Stable under recommended storage conditions

### POSSIBILITY OF HAZARDOUS REACTIONS

None under normal processing - hazardous polymerization does not occur

### CONDITIONS TO AVOID

Incompatible materials. Protect from moisture.

### INCOMPATIBLE MATERIALS

Strong oxidizing agents. Strong acids.

### HAZARDOUS DECOMPOSITION PRODUCTS

Carbon oxides. Nitrogen oxides (NO<sub>x</sub>). Potassium oxides.

## SECTION 11 - TOXICOLOGICAL INFORMATION

### INFORMATION ON POSSIBLE ROUTES OF EXPOSURE

#### Product Information

<b>Eye contact:</b>	Contact with eyes may cause irritation.
<b>Skin contact:</b>	May cause irritation.
<b>Inhalation:</b>	May cause irritation of respiratory tract.
<b>Ingestion:</b>	Specific test data for the substance or mixture is not available.
<b>Acute overexposure:</b>	no information available
<b>Chronic overexposure:</b>	no information available

#### Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Carbon Black 1333-86-4	>15400 mg/kg (Rat)	>3 g/kg (Rabbit)	-

### INFORMATION ON TOXICOLOGICAL EFFECTS

#### Symptoms

No information available

## SECTION 11 - TOXICOLOGICAL INFORMATION (CONTINUED)

### DELAYED AND IMMEDIATE EFFECTS AS WELL AS CHRONIC EFFECTS FROM SHORT AND LONG-TERM EXPOSURE

<b>Sensitisation:</b>	No information available
<b>Mutagenic Effects:</b>	No information available
<b>Carcinogenicity:</b>	The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
<b>Attapulgite</b> <b>12174-11-7</b>		Group 2B Group 3		X
<b>Carbon Black</b> <b>13333-86-4</b>	A3	Group 2B		X

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

Group 3 - Not Classifiable as to Carcinogenicity in Humans

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

<b>Reproductive toxicity</b>	No information available
<b>STOT - single exposure</b>	No information available
<b>STOT - repeated exposure</b>	No information available
<b>Chronic Toxicity</b>	Contains a known or suspected carcinogen. Attapulgite (palygorskite fibers) is a hydrated magnesium aluminum silicate. Long palygorskite (attapulgite) fibers (>5 micrometers) are possibly carcinogenic to humans (Group 2B). Short palygorskite (attapulgite) fibers (<5 micrometers) cannot be classified as to their carcinogenicity to humans (Group 3). Carbon black has been classified by the International Agency for Research on Cancer (IARC) as possibly carcinogenic to humans (Group 2B) by inhalation.
<b>Target Organ Effects</b>	Respiratory system. Eyes. Skin. Gastrointestinal tract (GI).
<b>Aspiration Hazard</b>	No information available



## SECTION 12 - ECOLOGICAL INFORMATION

### ECOTOXICITY

The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Carbon Black 13333-86-4				24h EC50: > 5600 mg/L

### PERSISTENCE AND DEGRADABILITY

Degrades rapidly in Humid/Wet environment.

### BIOACCUMULATIVE POTENTIAL

Low. Est biotransformation half-life: 0.012 days

### MOBILITY IN SOIL (AND OTHER COMPARTMENTS)

no information available

### OTHER ADVERSE EFFECTS

no information available

## SECTION 13 - DISPOSABLE CONSIDERATIONS

### DISPOSABLE METHODS

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

### PHYSICAL/CHEMICAL PROPERTIES THAT MAY AFFECT DISPOSAL OPTIONS

Not determined.

### EFFECTS OF SEWAGE DISPOSAL

Not determined.


### SPECIAL PRECAUTIONS FOR INCINERATION OR LANDFILL

No information available.

### CONTAMINATED PACKAGING

Dispose of contents/containers in accordance with local regulations.

## SECTION 14 - TRANSPORT INFORMATION

<p>Labelling ADG, IMO/IMDG, ICAO/IATA</p>	<div style="text-align: center;">  <p>2.2 Non flammable, non toxic gas</p> </div>
<b>Road and Rail Transport (ADG Code)</b>	
<p><b>Classification:</b></p>	<p>Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road &amp; Rail (Seventh edition, 7.4, 2015)</p>
<p><b>UN number</b></p>	<p>1044</p>
<p><b>Proper shipping name:</b></p>	<p>FIRE EXTINGUISHERS with compressed or liquefied gas</p>
<p><b>Transport hazard class/division:</b></p>	<p>2.2</p>
<p><b>Packing group:</b></p>	<p>N/A</p>
<p><b>HAZCHEM - Emergency Action Code</b></p>	<p>No Hazchem Code issued to these articles. No HIN issued under RID and ADR.</p>
<p><b>Special Provisions:</b></p>	<p>225</p>
<p><b>Limited Quantities:</b></p>	<p>120mL</p>
<p><b>Packing Instruction:</b></p>	<p>P003</p>
<p><b>Special Packing Provisions:</b></p>	<p>PP91</p>
<p><b>Placard load Incompatibilities:</b></p>	<p><b>Division 1 - Explosives</b>  <b>Division 2.1 - Flammable Gases</b> when the Division 2,2 gas has a subsidiary risk 5.1 except when all are packed in cylinders or pressure drums not exceeding 500L capacity.  <b>Division 2.3 Toxic Gases</b> when the Division 2,2 gas has a subsidiary risk 5.1 except when all are packed in cylinders or pressure drums not exceeding 500L capacity.  <b>Division 4.2 - Spontaneously Combustible Substances</b>  <b>Division 5.2 - Organic Peroxides</b></p>
<b>Marine transport (IMO/IMDG)</b>	
<p><b>Classification:</b></p>	<p>Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.</p>
<p><b>UN number:</b></p>	<p>1044</p>
<p><b>Proper shipping name:</b></p>	<p>FIRE EXTINGUISHERS with compressed or liquefied gas</p>
<p><b>Division:</b></p>	<p>2.2</p>
<p><b>Environmental hazards for Transport Purposes:</b></p>	<p>Not a known pollutant according to the International Maritime Dangerous Goods (IMDG) Code. Substance is not classified as having an acute aquatic toxicity hazard.</p>
<p><b>Emergency Schedule (EmS) - Fire:</b></p>	<p>F-C</p>
<p><b>Emergency Schedule (EmS) - Spillage:</b></p>	<p>S-V</p>
<p><b>Special provisions:</b></p>	<p>225</p>

## SECTION 14 - TRANSPORT INFORMATION (CONTINUED)

### Air transport (ICAO/IATA)

<b>Classification:</b>	Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.
<b>UN number:</b>	1044
<b>Proper shipping name:</b>	FIRE EXTINGUISHERS with compressed or liquefied gas
<b>Division:</b>	2.2
<b>Packing instruction (Cargo Aircraft only):</b>	213
<b>Packing instruction (Passanger and Cargo Aircraft):</b>	Restricted.
<b>Special Provisions:</b>	A19

### SPECIAL PRECAUTIONS FOR USER

Not available.

## SECTION 15 - REGULATORY INFORMATION

### Australian Regulation

All components are listed in the Australian Inventory of Chemical Substances.

### International Inventories

TSCA: Complies

DSL: All components are listed either on the DSL or NDSL.

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

### US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

### SARA 311/312 Hazard Categories

Acute Health Hazard:	No
Chronic Health Hazard:	Yes
Fire Hazard:	No
Sudden release of pressure hazard	No
Reactive Hazard	No

### CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

## SECTION 15 - REGULATORY INFORMATION (CONTINUED)

### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

### U.S. State Regulations Californian Proposition 65

This product contains the following Proposition 65 chemicals.

Chemical Name	California Proposition 65
<b>Attapulgit</b> 12174-11-7	Carcinogen
<b>Carbon Black</b> 13333-86-4	Carcinogen

### U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
<b>Mica</b> 12001-26-2	x	x	x		
<b>Carbon Black</b> 13333-86-4	x	x	x		x
<b>Pigment blue 15</b> 147-14-8			x	x	

### Mexico National Occupational Exposure Limits

Chemical Name	Carcinogen Status	Exposure Limits
<b>Mica</b> 12001-26-2		TWA=3mg/m <sup>3</sup>
<b>Carbon Black</b> 13333-86-4		TWA=3.5mg/m <sup>3</sup> STEL 7mg/m <sup>3</sup>

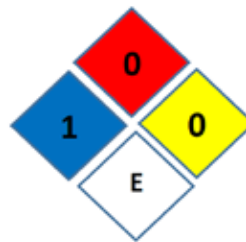
### Canada WHMIS Hazard Class

Not determined

## SECTION 16 - OTHER INFORMATION

<b>NFPA</b>	Health Hazards 1	Flammability 0	Instability 0	Physical and Chemical Hazards -
<b>HMIS</b>	Health Hazards 1*	Flammability 0	Physical Hazard 0	Personal Protection X

Chronic Hazard Star Legend \* = Chronic Health Hazard



### KEY LITERATURE REFERENCES AND SOURCES

Classification in accordance with the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition [NOHSC:2011(2003)].

This SDS where appropriate conforms to requirements under U.S., U.K., Canadian, Australian and EU regulations

Australian Inventory of Chemical Substances (AICS)

Australian Code for the Transport of Dangerous Goods by Road & Rail (2015, 7th Edition, 7.4)

Model Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.

International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

Workplace exposure standards for airborne contaminants, Safe work Australia.

International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

### DISCLAIMER

The information is based on the best knowledge of FlameStop Pty Ltd and its advisors and is given in good faith, but we cannot guarantee its accuracy, reliability or completeness and therefore disclaim any liability for loss or damage arising out of use of this data. Since conditions of use are outside the control of the Company and its advisors we disclaim any liability for loss or damage when the product is used for purposes other than it is intended.

**Please refer to our internet website for more information: [www.flamestop.com.au](http://www.flamestop.com.au)**

**SDS sheets are available to download in the downloads section of our website.**

**For contact information please go to page 1 of this SDS.**

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