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SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

PRODUCT IDENTIFIER:

PURPLE K DRY CHEMICAL

OTHER MEANS OF IDENTIFICATION:

POTASSIUM BICARBONATE, KDC, PK
EBE PURPLE K DRY CHEMICAL EXTINGUISHING AGENT PURPLE K POWDER 22.7KG DRUM

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

Relevant identified uses: fire suppression, not for human or animal drug use

DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:

Supplier: Atlantis Fire & Safety Services
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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 - Carcinogenicity - Category 2

LABEL ELEMENTS:

Hazard pictograms	
Pictogram name	GHS08 Health Hazard
Signal word	WARNING
Hazard statements	
Physical Hazards	
Health Hazards	H351 Suspected of causing cancer
Environmental Hazards	
Combinations	
Precautionary statements	
General	
Prevention	P201 Obtain special instructions before use P202 Do not handle until all safety precautions have been read and understood P281 Use personal protective equipment as required
Response	P308 + P313 IF exposed or concerned: Get medical advice/attention
Storage	P405 Store locked up
Disposal	P501 Dispose of contents/container to an approved waste disposal plant

OTHER HAZARDS:

None.

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.

ENVIRONMENTAL PRECAUTIONS

Refer to protective measures listed in Sections 7 and 8.

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.

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***
Attapulgite	12174-11-7	TWA: 1mg/m ³ respirable fraction	-	
Mica	12001-26-2	TWA: 3mg/m ³	TWA: 3.5mg/m ³ (vacated) TWA: 3.5mg/m ³	IDLH: 1500mg/m ³ containing <1% quartz TWA: 3mg/m ³ respirable dust
Carbon Black	1333-86-4	TWA: 3mg/m ³ inhalable fraction	TWA: 3mg/m ³ (vacated) TWA: 3.5 mg/m ³	IDLH: 1750 mg/m ³ TWA: 3.5 mg/m ³ TWA: 0.1 mg/m ³ 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

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

SECTION 11 - TOXICOLOGICAL INFORMATION

INFORMATION ON POSSIBLE ROUTES OF EXPOSURE

Product Information

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

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

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

Reproductive toxicity	No information available
STOT - single exposure	No information available
STOT - repeated exposure	No information available
Chronic Toxicity	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.
Target Organ Effects	Respiratory system. Eyes. Skin. Gastrointestinal tract (GI).
Aspiration Hazard	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

DOT NOT REGULATED

Proper Shipping Name NON REGULATED

Hazard Class N/A

TDG Not regulated

MEX Not regulated

ICAO Not regulated

IATA Not regulated

Proper Shipping Name NON REGULATED

Hazard Class N/A

IMDG/IMO Not regulated

Hazard Class N/A

RID Not regulated

ADR Not regulated

ADN Not regulated

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
Attapulgit 12174-11-7	Carcinogen
Carbon Black 13333-86-4	Carcinogen

U.S. State Right-to-Know Regulations

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

Mexico National Occupational Exposure Limits

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

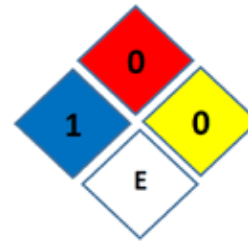
Canada WHMIS Hazard Class

Not determined

SECTION 16 - OTHER INFORMATION

NFPA	Health Hazards 1	Flammability 0	Instability 0	Physical and Chemical Hazards -
HMIS	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

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

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