

SAFETY DATA SHEET

BLACK PIGMENTED MDPE AND HDPE

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Issued by: QENOS PTY LTD

1. IDENTIFICATION

GHS Product Identifier

BLACK PIGMENTED MDPE AND HDPE

Product Code**Company Name**

QENOS PTY LTD

Address

471 - 513 Kororoit Creek Road, ALTONA
VIC 3018 Australia

Telephone/Fax Number

Tel: (03) 9258 7333

Fax: (03) 9360 9027

Emergency phone number

(03) 9258 7333

E-mail Address

alan.findlay@qenos.com

Recommended use of the chemical and restrictions on use

Black pigmented extrusion applications (Medium and high density polyethylene).

Other Names

Name	Product Code
HIGH DENSITY POLYETHYLENE (HDPE)	
MEDIUM DENSITY POLYETHYLENE (MDPE)	
ALKADYNE®	

Alkadyne® grades:	
GM5049B, HD700B, HDF145B,	
HDF193B, HCR193BX, MD0898, MD0898-1.	

BMSSBLK, MD600.	

2. HAZARD IDENTIFICATION

GHS classification of the substance/mixture

Not classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

Signal Words: Not Applicable

Hazard and Precautionary Statements: Not Applicable

Label elements: Not Applicable

Other Information

Classification according to Directive 67/548/EEC: Not classified as a dangerous substance.

Classification according to Regulation (EC) No 1272/2008 (CLP/GHS): Not classified as a hazardous substance.

Labelling according to Regulation (EC) No 272/2008 (CLP/GHS): Not applicable.

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition).

Other hazards:

No significant health hazard in normal industrial use conditions.

Contact with melted/heated product may cause thermal burns.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Name	CAS	Proportion
Carbon black	1333-86-4	2-3 %
PROPRIETARY ADDITIVES		0-1 %
POLYETHYLENE		96-98 %

Other Information

Applicable CAS Numbers for Polyethylene grades may include:

CAS No. 9002-88-4 Polyethylene homopolymer

CAS No. 25087-34-7 Ethylene/butene-1 copolymer

CAS No. 25213-02-9 Ethylene/hexene-1 copolymer

4. FIRST-AID MEASURES

Inhalation

Remove victim to fresh air.

Ingestion

Not expected to be a problem. If uncomfortable seek medical assistance.

Skin

Wash contact area with soap and water. Molten material will adhere to skin and cause burns. Cool material as quickly as possible with water and see a physician for prompt removal of the adhering material and treatment of the burn. Do not remove material or clothing from skin. Removal may result in further damage to skin.

Eye contact

Flush with water in order to remove particulates.

Advice to Doctor

Advice as per above information.

5. FIRE-FIGHTING MEASURES

Specific Hazards Arising From The Chemical

EXTINGUISHING MEDIA: Carbon Dioxide, Foam, Dry Chemical, Water Fog or Fine Water Spray;

SPECIAL FIRE FIGHTING PROCEDURES: Firefighters must use self contained breathing apparatus;

Dust explosion hazard - High concentration of air-borne powders, fines or dust may form explosive mixtures with air. Risk of dust explosion is increased if flammable vapour also present.

Static electricity - May accumulate hazardous static charge when agitated in transfer handling systems.

See section 7 for additional information.

6. ACCIDENTAL RELEASE MEASURES

Spills & Disposal

1. Dampen down to prevent spread by wind.
2. Shovel or sweep up spilled material and dispose or recycle.
3. Disposal of recovered material should conform to local regulations.

NOTE: Spilled pellets on surface/floors will create slip hazards and should be swept up promptly.

7. HANDLING AND STORAGE

Handling and storage

Manage Dust explosion Hazard: Minimize production of fines/dust when handling PE polymer. Keep handling areas free of loose dust/powder and fines around handling systems and prevent build up and concentration of fines/dust on flat surfaces such as floors and other surfaces such as ducting, structure beams and ceilings. Manage Static Electricity hazard: Earth (ground) all material handling and transfer equipment to dissipate static electricity. Keep away from uncontrolled heat and other ignition sources. For additional information on control of static and potential dust and fire hazards, refer to NFPA -654 "Standard for the Prevention of Fire and Dust Explosions in the Chemical, Dye Pharmaceutical and Plastics Industries".

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limit values

Substance	Regulations	Exposure Duration	Exposure Limit	Units	Notes
Carbon black		TWA	3	mg/m ³	

Other Exposure Information

No exposure standard has been published by Safe Work Australia for this product.

Safe Work Australia recommends an 8-hour occupational exposure limit for Total Inhalable Particulates (Dusts not otherwise classified) of 10 mg/m³.

Appropriate Engineering Controls

Good general ventilation is required under ordinary conditions of use.

Personal Protective Equipment

Thermal resistant gloves should be worn when handling hot materials. Use safety glasses. Under dusty conditions (concentrations greater than occupational exposure standards) approved dust respirators (eg a P2 disposable respirator or half face respirator fitted with a P3 filter) should be worn to prevent over-exposure by inhalation.

Any personal protection used should meet Australian standards. Approved respiratory protective equipment to AS/NZ1715 and AS/NZ1716 should be worn.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form

Solid

Appearance

Black pellets.

Melting Point

120 - 135°C

Boiling Point

None allocated

Specific Gravity

None allocated

Vapour Pressure

None allocated

Flash Point

None allocated

Flammability

Polymer may burn in presence of extreme heat and oxygen. Avoid extreme heat.

Flammable Limits - Lower

None allocated

Other Information

Density (Range): 0.930 - 0.970 g/cm³

Water Solubility: Negligible

10. STABILITY AND REACTIVITY

Possibility of hazardous reactions

STABILITY (Thermal, Light, etc): Stable;

CONDITIONS TO AVOID: Extreme Heat;

INCOMPATIBILITY (Materials to Avoid): Strong oxidising agents;

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon Monoxide, Aldehydes, Acetic Acid;

HAZARDOUS POLYMERISATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

Ingestion

No known effects/minimal toxicity. May cause choking if swallowed.

Inhalation

Inhalation of fines may cause irritation of nose and throat.

Skin

Skin contact may result in mechanical injury or abrasion. This is a low risk hazard. Thermal burns may result from exposure to hot material.

Eye

Pellets and fines may scratch eye surfaces/cause mechanical irritation to eyes.

Chronic Effects

None known.

12. ECOLOGICAL INFORMATION

Environmental Protection

Pellets of resin considered environmentally inert.

13. DISPOSAL CONSIDERATIONS

Disposal considerations

Dispose of in compliance with Federal, state and local government regulations. Disposal options include: recycling, incineration and landfilling.

14. TRANSPORT INFORMATION

U.N. Number

None Allocated

UN proper shipping name

None Allocated

Transport hazard class(es)

None Allocated

Storage and Transport

Land: Not Regulated

Sea: Not Regulated

Air: Not Regulated

Keep containers closed at all times. Check regularly for spills.

15. REGULATORY INFORMATION**Poisons Schedule**

Not Scheduled

Australia (AICS)

All components listed in the AICS.

16. OTHER INFORMATION**References**

Commonwealth of Australia, 'Australian Code for the Transport of Dangerous Goods by Road and Rail'.

Manufacturers Advice

Conveying lines and equipment in material handling systems should be grounded to eliminate or reduce the build up of static electricity. Avoid sources of ignition in areas where fires may occur.

END OF SDS

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