

Material Safety Data Sheet

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Infosafe No. KP003 Issue Date : December 2010 ISSUED by QENOS

Product Name : **BLACK PIGMENTED MDPE AND HDPE**

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name BLACK PIGMENTED MDPE AND HDPE
Company Name QENOS PTY LTD
Address 471 - 513 Kororoit Creek Road, ALTONA
VIC 3018 Australia
Emergency Tel. (03) 9258 7333
Telephone/Fax Number Tel: (03) 9258 7333
Fax: (03) 9360 9027
Email alan.findlay@qenos.com
Recommended Use Black pigmented extrusion applications (Medium and high density polyethylene).
Other Names Name Product Code
BMSBLK, HD700B
GF7660B19; GM5049B
HDF193B; HDF199B, HDF145B
MD0898; MD600; MD0898-1

2. HAZARDS IDENTIFICATION

Hazard Classification NON-HAZARDOUS SUBSTANCE.
NON-DANGEROUS GOODS.
Hazard classification according to the criteria of NOHSC.
Dangerous goods classification according to the Australia Dangerous Goods Code.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterization Solid
Ingredients

| <u>Name</u> | <u>CAS</u> | <u>Proportion</u> |
|-----------------------|------------|-------------------|
| POLYETHYLENE | 9002-88-4 | 96-98 % |
| Carbon black | 1333-86-4 | 2-3 % |
| PROPRIETARY ADDITIVES | | 0-1 % |

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 Flush with water in order to remove particulates.
Advice to Doctor Advice as per above information.

5. FIRE FIGHTING MEASURES

Specific Hazards 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.

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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

| National Exposure Standards | Name | STEL | | TWA | | Footnote |
|--------------------------------------|---|-------|-----|-------|-----|----------|
| | | mg/m3 | ppm | mg/m3 | ppm | |
| | Carbon black | | | 3 | | |
| Other Exposure Information | No exposure standard has been published by the National Occupational Health & Safety Commission (Worksafe Australia). Kemcor recommends a limit of 10 mg/m3 for nuisance dusts. | | | | | |
| 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 approved dust respirators should be worn to avoid exposure by inhalation. | | | | | |

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

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

| | |
|------------------------|--|
| Inhalation | Inhalation of fines may cause irritation of nose and throat. |
| Ingestion | No known effects/minimal toxicity. May cause choking if swallowed. |
| 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. |

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12. ECOLOGICAL INFORMATION

Environ. Protection Pellets of resin considered environmentally inert.

13. DISPOSAL CONSIDERATIONS

14. TRANSPORT INFORMATION

Storage and Transport The products listed in this MSDS are not classified as dangerous goods in the Australian Dangerous Goods Code.

15. REGULATORY INFORMATION

Poisons Schedule Not Scheduled

Packaging & Labelling No special requirements.

16. OTHER INFORMATION

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 fines may occur.

Literature References Commonwealth of Australia, 'Australian Code for the Transport of Dangerous Goods by Road and Rail', Australian Government Publishing Service (1992).

Signature of Preparer/Data Service Updated 29/06/2005 - Updated 'Product Grades'

...End Of MSDS...