

I Product Identification

Product Identifier: **EPDM – Dense**
Product Use: Dense Rubber Compounds
Transportation: TDG Class: Not applicable PIN: Not applicable
WHMIS Classification:
Class D2A – contains an IARC Carcinogen @>0.1% (Carbon Black)
Class D2B – contains a skin and eye irritant @>1% (Calcium Oxide)



II Hazardous Ingredients

Chemical Identity	CAS No	%	LD50/LC50
Carbon Black	1333-86-4	40-70	Oral (Rat)>10,000 MG/KG Dermal not available Inhalation (Rats/Mice) 156 MG/M ³
Calcium Oxide	1305-78-8	1-5	Not available
Zinc Oxide	1314-13-2	1-5	Oral (Mouse) 7950 MG/KG Dermal not available Inhalation not available

These ingredients are encapsulated in a polymeric binder which minimizes the potential for exposure by inhalation, skin contact or ingestion.

III Physical Data

Appearance, Physical State and Odour:	Black solid, characteristic odour		
Melting Point:	Not applicable	Vapour Pressure:	Not applicable
Boiling Point:	Not applicable	Vapour Pressure:	Not applicable
Solubility in water:	Insoluble	Evaporation Rate:	Not applicable
Density:	1.24	PH:	Not applicable
Coefficient of water/oil distribution:	Not available	Odour Threshold:	Not available

IV Fire or Explosion Hazard

Flash Point:	Not applicable	Method:	Not applicable
Autoignition Temp:	Not available		
Explosive Limits:	Lower – Not Applicable	Upper – Not applicable	
Conditions of Flammability:	Not applicable		

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IV Fire or Explosion Hazard

Extinguishing Media: use media for primary cause of fire
Special Precautions: Self-contained breathing apparatus
Hazardous Combustion Products: Oxides of Carbon, Sulphur, Nitrogen, Copper, Zinc
Explosion Data: Not available
Sensitivity To: Mechanical Impact: Not applicable
Static Discharge: Not applicable

V Reactivity Data

Stability: Stable
Hazardous Polymerization: Will not occur
Conditions re: Instability: Contact with incompatible materials, very high temperatures
Incompatible Materials: Strong acids and oxidizing agents
Hazardous Decomposition Products: Oxides of Copper, Carbon, Sulphur, Zinc and Nitrogen
At combustion temperatures, Carbon Disulphide

VI Toxicological Properties

Occupational Exposure Limits:

<u>Component</u>	<u>Exposure Limit</u>	<u>Source</u>
Carbon Black	3MG/M ³ TLV-TWA	ACGIH 2000
Calcium Oxide	2MG/M ³ TLV-TWA	ACGIH 2000
Zinc Oxide	10MG/M ³ TLV-TWA	ACGIH 2000

These ingredients are encapsulated in a polymeric binder which minimizes the potential for exposure by inhalation.

Acute Effects:

Eye contact: The product is classified as an eye irritant because it contains calcium oxide, which is an irritant. Ingredients are encapsulated in a Polymeric binder which prevents direct contact. May cause mechanical irritation. **Skin contact:** The product is classified as a skin irritant because it contains Calcium Oxide. Ingredients are encapsulated in a Polymeric binder which prevents direct contact. Primary skin irritation is unlikely. May cause mechanical irritation. Not likely to be absorbed through skin in toxic amounts. **Inhalation:** Inhalation of fumes from hot processes may irritate nose, throat and respiratory tract. **Ingestion:** Accidental ingestion is unlikely to cause adverse effects.

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VI Toxicological Properties

Chronic Effects:

Carbon Black: Contains trace amounts of absorbed polynuclear aromatic hydrocarbons (PAH), some of which have been found to be carcinogenic in animal studies. Carbon black has been found to cause cancer in animals and is considered a 2B carcinogen (known animal, possible human) in IARC. No evidence of Carbon Black causing cancer in humans has ever been shown. Carbon Black is not considered a carcinogen by ACGIH or NTP.

Zinc Oxide: "Oxide Pox" and occupational dermatitis can occur in cases where zinc oxide dust combines with debris and bacteria to block sweat glands on the skin as a result of poor personal hygiene.

VII First Aid

Eyes: Flush with plenty of flowing water while holding eyelids open. Get medical attention if irritation persists.

Skin: Wash off with water

Inhalation: Remove to fresh air

Ingestion: Wash out mouth with water

VIII Preventive Measures

Engineering Controls: Closed system and/or local exhaust ventilation recommended to prevent inhalation of aerosols generated from hot processes.

Handling Procedures and Equipment:

- ◆ Wash hands and other exposed skin after handling and before eating, drinking etc
- ◆ Avoid skin and eye contact.

Storage Requirements: Store in dry location in closed containers away from strong oxidizing agents and acids.

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VIII Preventive Measures

Personal Protective Equipment:

Eyes: Safety Glasses should be adequate
Skin: Impervious rubber
Respiratory: Need for respiratory protection is not anticipated
Other: Not applicable

Spill or Leak Procedures: Sweep Up

Waste Disposal: In accordance with local regulations. Contact Regional
Environmental Agency.