



PANABRASIVE INC.
MATERIAL SAFETY DATA SHEET CDN

CAST STEEL ABRASIVES

Date of Preparation: 1/1/2004

Section 1: PRODUCT INFORMATION

Product name: PanAbrasive Steel Shot and Steel Grit

Manufacturer: PanAbrasive Inc.
650 Rusholme Road
Welland, Ontario L3B 5R4
Fax 905-735-8573 www.panabrasive.com.

Manufacturer emergency phone number: 905-735-4691.

Chemical family: Ferrous.

TDG classification: Not regulated.

WHMIS classification: Not controlled.

DSL status: The substance(s) listed in section 2 appear on the Domestic Substances List.

Section 2: HAZARDOUS INGREDIENTS

C.A.S.	%	Ingredient	T.L.V.	LD/50	LC/50
1309-37-1	>96	Red Iron Oxide	5 MG/M3	Not Available	Not Available
1333-86-4	<1.3	Carbon Black	3.5 MG/M3	>15,400 MG/KG Rat Oral >3,00 MG/KG Rabbit Dermal	Not Available
7439-96-5	<1.3	Manganese	0.2 (MN)/M3	9000 MG/KG Rat Oral	Not Available
7440-21-3	<1.2	Silicon	10 MG/M3	3160 MG/KG Rat Oral	Not Available
	<1.0	Other	Not Available	Not Available	Not Available

Section 3: PHYSICAL DATA

Physical state: Solid

Appearance & odor: Odorless. Near spherical or angular steel particles.

Odor threshold (ppm): Not applicable.

Vapor pressure (mmHg): Not applicable.

Vapor density (air=1): Not applicable.

Volatiles (%) By volume: Nil

Evaporation rate Butyl acetate = 1): Not applicable.

Boiling point (°C): 1566-1725°C

Freezing point (°C): Not applicable.

pH: Not applicable.

Specific gravity @ 20 °C: 7.6 g/cc

Solubility in water (%): Nil

Coefficient of water/oil dist.: Not applicable.

Section 4: FIRE & EXPLOSION DATA

Flammability: Not flammable.

Conditions of flammability: Surrounding fire.

Extinguishing media: Suitable for surrounding fire.

Special procedures: Self-contained breathing apparatus required. Firefighters should wear the usual protective gear.

Auto-ignition temperature: 930-1600°C

Flash point (°C), method: None

Lower flammability limit (% vol): Not applicable.

Upper flammability limit (% vol): Not applicable.

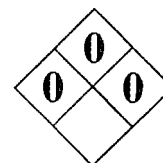
Explosion Data Sensitivity to static discharge: Not applicable.

Sensitivity to mechanical impact: Not applicable.

Hazardous combustion products: None known.

Explosive power: Not applicable.

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Section 5: REACTIVITY DATA

Chemical stability: Product is stable.
Conditions of reactivity: None known.
Hazardous polymerization: Not available.
Incompatible substances: None known.
Hazardous decomposition products: None known.

Section 6: TOXICOLOGICAL PROPERTIES

Route of entry: Inhalation, eyes.
Effects of acute exposure
Eye contact: Dust may irritate the eyes.
Skin contact: No adverse effects expected.
Inhalation: May cause irritation to the respiratory tract.
Ingestion: No adverse effects expected.
Effects of chronic exposure: None known.
LD50 of product, species & route: Not available for mixture, see the ingredients section.
LC50 of product, species & route: Not available.
Exposure limit of material: Not available for mixture, see the ingredients section.
Sensitization to product: Not available.
Carcinogenic effects: Carbon black is a known animal carcinogen and a possible human carcinogen. (Not respirable under normal conditions of use).
Reproductive effects: Not available.
Teratogenicity: Not available.
Mutagenicity: Not available.
Synergistic materials: Not available.

Section 7: PREVENTATIVE MEASURES

Precautionary Measures

Gloves/Type: Work gloves.
Respiratory/Type: Wear a NIOSH/MSHA approved dust mask.
Eye/Type: Safety glasses with side-shields.
Footwear/Type: Safety shoes per local regulations.
Clothing/Type: Normal work clothes.
Other/Type: Eye wash facility should be in close proximity. Emergency shower should be in close proximity.
Ventilation requirements: Local exhaust at points of emission.
Leak/Spill: Wear appropriate protective equipment. Avoid breathing dust. Sweep up or shovel into appropriate container.
Waste disposal: In accordance with municipal, provincial and federal regulations.
Handling procedures and equipment: Avoid getting in eyes. Wear personal protective equipment appropriate to task.
Avoid breathing dust.
Loading limitations: Skidded boxes - 5 high. Skidded drums - 2 high.
Storage requirements: Store in a cool and well-ventilated area. Keep dry.
TDG classification: Not regulated.
Special shipping information: See transportation information.

Section 8: FIRST AID MEASURES

Skin contact: No first aid should be needed. If irritation occurs, consult a physician.
Eye contact: Flush with plenty of water. Consult a physician if irritation persists.
Inhalation: Remove victim to fresh air. If there are breathing difficulties, consult a physician.
Ingestion: No first aid should be needed. If irritation occurs, consult a physician.
Additional information: The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. This company shall not be held liable for any inaccuracies.

Section 9: ADDITIONAL INFORMATION

General note: This material safety data sheet was prepared from information obtained from various sources, including product suppliers and the Canadian Center for Occupational Health and Safety.