

T-TEX BLACK MAGIC

COAL SLAG ABRASIVE

Material Safety Data Sheet

SECTION 1 – PRODUCT IDENTIFICATION & USE:

MineralTech CL

CHEMICAL NAME AND SYNONYMS: Crushed Coal Slag

MANUFACTURER

Emergency: 281-462-4220

MATERIAL IDENTIFICATION AND USE

This material is a shiny, black, granular aggregate for use as a blasting media. This product contains no free crystalline silica. Note: This MSDS covers many products and individual physical and chemical properties will vary. Consult individual Technical Data Sheet's for specifics.

SECTION 2 – HAZARDOUS INGREDIENTS

The approximate element composition of this material is as follows:

Ingredients by weight	Chemical formula	typical %	CAS #
Silicon Dioxide (total)	SiO ₂ (total)	~46.5	60676-86-0
Aluminum Oxide	AL ₂ O ₃	~22.5	1344-28-1
Iron Oxide	Fe ₂ O ₃	~19.0	1309-37-1
Calcium Oxide	CaO	~5.5	1305-78-8
Magnesium Oxide	MgO	~1.0	1309-48-4
Titanium Dioxide	TiO ₂	~1.0	13463-67-7
Crystalline Silica	SiO ₂ (crystalline)	<0.1	14808-60-7

SECTION 3 – PHYSICAL DATA

APPEARANCE: Solid, angular granules. Shiny black color.

ODOUR: No appreciable odor.

SOLUBILITY IN WATER (%): Insoluble.

MELTING POINT: Not available.

PH: Not available.

SECTION 4 – FIRE AND EXPLOSION DATA

FLAMMABILITY: No.

EXTINGUISHING MEDIA: Not applicable.

SPECIAL FIRE FIGHTING PROCEDURES: Not applicable.

UNUSUAL FIRE/EXPLOSION HAZARDS: Not applicable.

The product will not burn or explode.

SECTION 5 - REACTIVITY DATA

PRODUCT STABILITY:

Stable.

HAZARDOUS POLYMERIZATION:

Will not occur.

CONDITIONS TO AVOID:

Not applicable.

INCOMPATIBILITY:

Not applicable.

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS: Not applicable.

SECTION 6 - TOXICOLOGICAL PROPERTIES

EYE CONTACT:

May cause irritation due to presence of "foreign object".

SKIN CONTACT: Possible skin irritation.

INHALATION:

EFFECTS OF ACUTE EXPOSURE: Exposure may cause irritation to nose, throat and lungs.

EFFECTS OF CHRONIC EXPOSURE: Exposure may cause irritation to nose, throat and lungs.

INGESTION: May cause irritation.

OCCUPATIONAL EXPOSURE LIMITS: The following Threshold Limit Values (TLV's) refer to airborne concentrations of substances. The potential hazard of solid particles depends on particle size, which is expressed in three forms:

Inhalable (< 100 ηm) – when deposited anywhere in the respiratory tract

Thoracic (< 25 ηm) – when deposited anywhere within the lung airways and the gas-exchange region

Respirable (< 10 ηm) – when deposited in the gas-exchange region

Substance	C.A.S. No.	PEL	TWA	STEL/C	Critical Effect(s)
PNOC 1	Inhalable	15	10	-	Lung
	Respirable	5	3	-	Lung
Fe ₂ O ₃ (Iron Oxide)	1309-37-1	10	5	-	Pneumoconiosis
AL ₂ O ₃ (Aluminum Oxide)	1344-28-1	15	10	-	Lung; irritation
CaO (Calcium Oxide)	1305-78-8	5	2	-	Irritation
MgO (Magnesium Oxide)	1309-48-4	15	10	-	Irritation; metal fume fever
TiO ₂ (Titanium Dioxide)	13463-67-7	15	10	-	Lung
1 Particulates (Insoluble) Not Otherwise Classified					

OSHA PEL – Permissible Exposure Limit (mg/m³)

ACGIH TWA – Time Weighted Average (mg/m³)

STEL/C – Short-term Exposure Limit / Ceiling (mg/m³)

In other jurisdiction, please consult appropriate occupational exposure regulations.

Reference: 1999 TLV's and BEI's Threshold Limit Values for Chemical Substances and Physical Agents Biological Exposure Indices

SECTION 7 - PREVENTATIVE MEASURES

EYE PROTECTION: Safety goggles or glasses, as required by nature of task(s) being performed.

SKIN PROTECTION: Impervious gloves recommended and other clothing as required by nature of work being done.

VENTILATION: Use adequate ventilation and dust collection.

RESPIRATORY PROTECTION: The following chart specifies the types of respirators to be used based on airborne concentrations of respirable crystalline silica. This chart has been provided as a guide for protection of personnel that may be exposed to airborne concentrations of any particulate matter.

SECTION 8 - PREVENTATIVE MEASURES (continues)

Airborne Concentration (Respirable Free Silica)	Type of Respirator Required
< or equal to 10 X TWAEV	Half-mask particulate respirator with N-, R-, or P- series filter and 95, 99, or 100% efficiency.
< or equal to 25 X TWAEV	Powered air purifying respirator equipped with a hood or helmet, and any type of particulate filter; or supplied air respirator equipped with a hood or helmet and operated in a continuous flow mode.

TWAEV – time-weighted average exposure value

Where applicable, respirators should be fitted, maintained, and cleaned in accordance with the regulations made under the Occupational Health and Safety Act.

OTHER PROTECTIVE EQUIPMENT:

As required by nature of work being done.

LEAKS AND SPILLS:

Avoid breakage of bagged material or spills of bulk material. Do not dry sweep, use a dustless system (vacuum) for clean up so that airborne dust does not exceed the permissible exposure limit.

WASTE DISPOSAL INFORMATION:

Dispose in accordance with federal, state or local regulations. Material contaminated in use may have special disposal requirements. Dispose in accordance with federal, state or local regulations

HANDLING PROCEDURES AND EQUIPMENT:

Use adequate ventilation and dust collection. Do not permit dust to collect on walls, floors, ledges, machinery, or equipment. Use dustless system (vacuum) for handling, storage and clean up so that airborne dust does not exceed the permissible exposure limit.

STORAGE REQUIREMENTS: No special storage procedures required. Avoid dust generation when handling.

SECTION 9 - FIRST AID MEASURES

SKIN CONTACT: Wash with soap and water.

EYE EXPOSURE: Flush with water and seek medical advice if irritation persists.

INGESTION: Seek immediate medical aid.

INHALATION: Remove to fresh air. If breathing difficulty is encountered, seek medical aid.

SECTION 10 - PREPARATION DATE OF MSDS

The MSDS was prepared from information provided by raw material suppliers to MineralTech, LLC

DATE ISSUED: October 28, 2011

General inquiries may be directed to 281-462-4220