SAFETY DATA SHEET

SECTION 1: PRODUCT IDENTIFICATION

Product Identifier: Black Shot II Sandblast Media

Other Means of Identification: A Blend of Copper Slag (CAS #67711-92-6) and Coal-Fired Boiler Slag (CAS #68476-96-0)

Recommended Use: Sandblasting Media

Restrictions on Use: None Known

Supplier Identifier: Allredi Blast and Abrasives Canada Inc., 500 Sherman Ave., N., P.O. Box 844 LCD #1, Hamilton, Ontario L8N 3N9 Telephone #905-527-6000 or 1-888-794-5665

Emergency Telephone Number: See above

SECTION 2: HAZARD(S) IDENTIFICATION

Classified According to Canada's Hazardous Products Regulations (WHMIS 2015) and the US Hazard Communication Standard (HCS 2012).

This Product does not contain substances at level regulated: OSHA under 29 CFR 1910.1200

GHS Classifications

Health Hazard: Not Classified
Environmental Hazard: Not Classified
Physical Hazard: Not Classified

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS NO	%	Other Identifiers
Iron Oxide	1309-37-1	41-53	Fe_2O_3
Silica, Amorphous	7631-86-9	33-41	SiO_2
Aluminum Oxide	1344-28-1	6-11	Al_2O_3
Calcium Oxide	1305-78-8	1.5-8	CaO
Magnesium Oxide	1309-48-4	.75-3.25	MgO
Potassium Oxide	12136-45-7	.025-.75	K_2O
Titanium Oxide	13463-67-7	.025-.5	TiO_2
Crystalline Silica Quartz	14808-60-7	<0.1	SiO_2
Other Trace Oxides		<1.5	
Manganese	7439-96-5	.0025-.0125	Mn
Beryllium	7440-41-7	0.0-.00025	Be
Cadmium	7440-43-9	0.0-.00025	Cd

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SECTION 4: FIRST AID MEASURES

Inhalation: Remove affected person(s) to fresh air. Apply oxygen is difficulty breathing and consult a Professional immediately.

Ingestion: Rinse mouth with water. Don't induce vomiting. Consult a Physician if discomfort continues.

Skin Contact: Wash exposed skin gently with soap and lukewarm water for about 10 minutes.

Eye Contact: Immediately flush eyes thoroughly with lukewarm water for at least 15 minutes while holding the eye lid open. Do not rub eyes. If irritation persists, seek medical attention.

Most Important Symptoms/Effects, Acute and Delayed: Respiratory tract irritation, skin irritation, eye irritation.

Immediate Medical Attention and Special Treatment: Respiratory System.

SECTION 5: FIRE FIGHTING MEASURES

Extinguishing Media
Suitable Extinguishing Media: Non-Combustible. Use appropriate extinguishing media for surrounding fire.
Unsuitable Extinguishing Media: None known.

Specific Hazards Arising from the Product: Does not burn. This product presents no unusual hazards in a fire situation.

Special Protective Equipment and Precautions for Fire-Fighters: Wear full protective firefighting gear. Wear self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures: Wear appropriate clothing and respiratory protection (see Section 8). Avoid generating airborne dust during clean-up.

Environmental Precautions: No specific precautions.

Methods for Containment and Cleaning Up: Avoid generating dust. Collect spillage by using a scoop/shovel or approved HEPA vacuum and place in a suitable container for disposal.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling: Avoid inhalation of dust. Wear personal protective equipment. Keep the work area clean. Have proper ventilation. Wash thoroughly and use good industrial hygiene practices.

Conditions for Safe Storage: Store in properly closed containers. Keep dry.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters:

Chemical Name	OSHA PEL	ACGIH TLV
Iron Oxide	10 mg/m^3	5 mg/m^3
Silica, Amorphous *	80 $mg/m^3/\%SiO_2$	10 mg/m^3
Aluminum Oxide	5 mg/m^3	1 mg/m^3
Calcium Oxide	5 mg/m^3	2 mg/m^3
Magnesium Oxide	15 mg/m^3	10 mg/m^3
Potassium Oxide	N.E. **	N.E. **
Titanium Oxide	15 mg/m^3	10 mg/m^3
Silica, Crystalline	10 $mg/m^3/\%SiO_2$ R***	.025 mg/m^3 R***
Manganese	5 mg/m^3	.2 mg/m^3
Beryllium	.002 mg/m^3	.002 mg/m^3
Cadmium	.005 mg/m^3	.01 mg/m^3 R ***

Low health risk by inhalation. Treat as a nuisance dust. Use ACGIH-TLV or OSHA-PEL nuisance dust guidelines (see below). This product is a stable amorphous glass-like iron silicate compound which contains less than 0.10% crystalline silica.

OSHA 15 mg/m^3 Total Dust (Particles not otherwise regulated) (General Industry)
ACGIH 10 mg/m^3 (Inhalable) classified as (PNOS, Particles not otherwise specified)

** Not Established
*** R = Respirable Fraction

Appropriate Engineering Controls: Use process enclosures, local exhaust ventilation or other engineering controls to keep airborne levels below recommended exposure limits.

Individual Protection Measures
Eye/Face Protection: Wear safety glasses with side shields. Use tight fitting goggles if dust is generated
Skin Protection: Use protective gloves. Wear suitable protective clothing.
Respiratory Protection: Selection and use of respiratory protective equipment should be in accordance with OSHA General Industry Standard 29 CFR 1910.134; or in Canada with CSA Standard Z94.4

Comments: Proper and safe use of the material is solely the purchaser's responsibility. Allredi Blast and Abrasives Canada Inc. extends no warranties and makes no representations as to the suitability of the product for the purchaser's intended purpose or the consequences of purchaser's actions.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Black, granular solid
pH: 6-8.2
Odor: None
Melting Point: Not Available
Freezing Point: Not Available
Boiling Point: Not Available
Flash Point: Not Applicable
Flammability (solid, gas): Not Applicable
Upper and Lower Flammability or Explosive Limit: Not Applicable
Specific Gravity (water = 1): 2.5-2.65
Evaporation Rate: None
Solubility in Water: Insoluble
Vapor Density: Not Applicable

Vapor Pressure (air = 1): Not Applicable
Auto-ignition Temperature: Will not burn
Decomposition Temperature: Will not decompose
Flammable Limits (LEL/UEL): Not Applicable
Partition Coefficient: n-octanol/water: Not Applicable
Viscosity: Not Available

SECTION 10: STABILITY AND REACTIVITY

Reactivity: No reactivity hazard is expected
Chemical Stability: Product is stable and non-reactive under normal conditions of use.
Possibility of Hazardous Reactions: None
Conditions to Avoid: Avoid accumulation of airborne dusts
Incompatible Materials: None
Hazardous Decomposition Products: None

SECTION 11: TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Inhalation. Skin Contact. Eye Contact. Ingestion

Acute Toxicity:

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Iron Oxide	Not available	>10,000 mg/kg (rat)	Not available
Silica, Amorphous			
Aluminum Oxide	Not available	>5,000 mg/kg (rat)	Not available
Calcium Oxide	Not available	>2,000 mg/kg (rat)	Not available
Magnesium Oxide	Not available	810 mg/kg (mouse)	Not available
Potassium Oxide	Not available	Not available	Not available
Titanium Oxide	Not available	>10,000 mg/kg (rat)	Not available

Notes: Abrasive blasting agents may cause inflammation and pulmonary fibrosis. Ingestion of dusts generated during working operations may cause nausea and vomiting.

Skin Corrosion/Irritation: May cause skin irritation.

Serious Eye Damage/Irritation: May cause moderate to severe eye irritation.

STOT (Specific Target Organ Toxicity) – Single Exposure
Inhalation: Can irritate the respiratory system
Skin Contact: May cause irritation
Ingestion: May cause irritation of the mouth, throat and stomach

STOT (Specific Target Organ Toxicity) – Repeated Exposure
Inhalation: May cause irritation of the respiratory system

Respiratory and/or Skin Sensitization: May cause respiratory or skin sensitization based on limited evidence.

Carcinogenicity: Contains less than 0.1% crystalline silica

Notes:

ACGIH Carcinogens

Aluminum Oxide (CAS 1344-28-1) A4 Not classifiable as a human carcinogen.
Beryllium (CAS 7440-41-7) A1 Confirmed human carcinogen.

Cadmium (CAS 7440-43-9) A2 Suspected human carcinogen.
Iron Oxide (CAS 1309-37-1) A4 Not classifiable as a human carcinogen.
Magnesium Oxide (CAS 1309-48-4) A4 Not classifiable as a human carcinogen.
Manganese (CAS 7439-96-5) A4 Not classifiable as a human carcinogen.
Titanium Dioxide (CAS 13463-67-7) A4 Not classifiable as a human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

Beryllium (CAS 7440-41-7) Group 1. Monographs 58 and 100C (2012)
Cadmium (CAS 7440-43-9) Group 1. Monographs 58 and 100C (2012)
Titanium Oxide (CAS 13463-67-7) Group 2B. Monographs 47 and 93 (2010)

Reproductive Toxicity

Development of Offspring: No known evidence this product contributes Teratogenicity or Embryotocicity
Sexual Function and Fertility: No known evidence this product contributes to reproductive toxicity
Effects on or via Lactation: No known evidence this product affects lactation
Germ Cell Mutagenicity: None known
Interactive Effects: None known

Comments: Although Allredi Blast and Abrasives Canada Inc. Has taken reasonable care in the preparation of this Safety Data Sheet, no warranties are made. Allredi Blast and Abrasives Canada Inc Makes no representations and assumes no responsibility as to the accuracy or suitability of the Safety Data Sheet for the applications intended by the purchaser.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Persistence and degradability: This product is not biodegradable.
Bioaccumulative potential: This product is not bioaccumulating.

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SECTION 13: DISPOSAL CONSIDERATIONS

Disposal Methods: Dispose waste in compliance with Federal, State, Provincial and Local Regulations

SECTION 14: TRANSPORT INFORMATION

This product is not regulated for transportation under the U.S. DOT, Canadian TDG, IMDG, or IATA Regulations.

SECTION 15: REGULATORY INFORMATION

Safety, Health and Environmental Regulations

Canada

WHMIS 1988 Classification: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all of the information required by the Controlled Products Regulations.

California Proposition 65: Crystalline silica (airborne particulates or respirable size) is known by the State of California to cause cancer.

Custom Regulatory 1: Employee exposure monitoring should be performed when using this product to determine exposure levels to not only the oxides contained in this product, but also the material being blasted.

SECTION 16: OTHER INFORMATION

Hazardous Material Information System (HMIS):
Health 0
Flammability 0
Physical Hazard 0
Personal Protection A

National Fire Protection Association (NFPA):
Health 0
Flammability 0
Reactivity 0

SDS Prepared By: Richard Bell

Phone No: 1-905-527-6000

Date of Preparation: November 1, 2020

Key to Abbreviations:

ACGIH – American Conference of Governmental Industrial Hygienists
OSHA – Occupational Safety and Health Administration

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