

# **ABRASIVES**

# Wholesale Equipment, Parts, and Supplies A Division of CanAm Minerals Inc.

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#### **Material Safety Data Sheet**

Complies with ANSI Z400.1 Draft Standard for the Preparation of Material Safety Data Sheets, Copyright 1991, Chemical Manufacturers Association

### **U.S. Department of Labor**

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

### Section 1: CHEMICAL PRODUCT AND CHEMICAL IDENTIFICATION

Identity (as used on label and list):

Synonym(s): 8-12 (Large), 16, 16-30, 35, 30-60 (Fine) (numbers indicated are all nomenclature for sizing)

Manufacturer's Name: Emergency Telephone: Information Telephone:

Address:

Prepared by: Date Prepared: **Kleen Blast** 

CanAm Minerals dba Kleen Blast (925) 831-9800 (925) 831-9800

**50 Oak Ct., Suite 210 Danville, CA 94526**Director of Health & Safety 21<sup>st</sup> September, 2012
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## Section 2: COMPOSITION/INFORMATION ON INGREDIENTS

Contents: Vitreous Smelter Slag 99% - 100% C.A.S. #67711-92-6

Formula: Not Applicable

Chemical Family: Iron-Calcium-Silicate (complex silicate) with fused oxides of Si, Fe, Ca, Al, Mg.

Typical Chemical Composition:  $38.1\% \, \text{SiO}_{2;} \, 27.4\% \, \text{Fe}_2\text{O}_{3;} \, 22.8\% \, \text{CaO}; \, 5.7\% \, \text{Al}_2\text{O}_3; \, 3.9\% \, \text{MgO}; \, \text{other fused oxides} \ @ <1.0\%. Chemical composition shown is typical, elemental concentrations may vary slightly between batches or lots.$ 

Note: Kleen Blast contains < 0.1% crystalline silica. All of the U.S. EPA RCRA 8 metals, the 17 California listed metals listed metals are either nondetected or below the regulatory limits, as well as the lower limits as specified by the U.S. Navy under MIL-A-22262A (SH), specifications for blasting abrasives. TCLP, TTLC and STLC analytical results of metal contents are available upon request. Trace levels in the ppm range of heavy metal contaminants may be present so users need to determine employee exposures in accordance with OSHA regulations.

Permissible Exposure Limits OSHA PEL: Total Nuisance Dust: 10 mg/m³ Respirable Dust: 5 mg/m³

### **Section 3: HAZARDS IDENTIFICATION**

This product does not contain substances at levels regulated:
-by OSHA under 29 CFR 1910.1200
-by USEPA under 40 CFR 302.4 and 40 CFR 355.4
-by USEPA under 40 CFR 261.20
-by USEPA under 40 CFR 116.4

This product is not hazardous material based upon current information and testing results.

Kleen Blast has prepared this material safety data sheet in order to provide product information which will assist our customers in complying with all state and federal waste and hazard minimization laws as well as all state and federal transportation laws.

**Appearance and Odor:** Black angular to sub-angular granules with no apparent odor.

**Health Hazards (acute):** Trauma hazard associated with handling equipment or sudden

release of large volumes. Abrasion injuries possible during blasting

operations or similar exposure.

**Health Hazards (chronic):** Respiratory illness as a result of long-term exposure to particulates is

possible. NIOSH-approved particulate respirators should be used during blasting operations. Company testing indicates no PEL

exposures in the blasting environment of any trace metal contaminants. Job specific trace heavy metal PEL testing needs to

conducted by users in accordance with all OSHA regulations.

#### **HAZARDS IDENTIFICATION - Continued**

#### **OSHA REGULATORY STATUS**

While this material is not classified as hazardous under OSHA regulations, this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.

## **Physical/Chemical Characteristics**

Boiling Point	NA	Specific Gravity (H20=1)	2.8
Vapor Pressure (mm Hg)	NA	Melting Point	2400 F
Vapor Density (Air=1)	NA	Evaporation Rate	None
Solubility in Water	None	(Butyl Acetate=1)	None

Hardness (Mohs Scale) 7 - 8.5

## **Section 4: HAZARD SYMOBOLS:**

#### **HAZARD SYMBOLS:**

### **HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS)**

Health	1 *
Flammability	0
Physical Hazard	0
Protective Equipment	

**HMIS PERSONAL PROTECTIVE EQUIPMENT RATING:** Industrial Use situations: A; Safety Glasses.

#### **CANADIAN WHMIS SYMBOLS:**

Not Applicable

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

#### Section 5: FIRE AND EXPLOSION HAZARD

Flash Point (Method Used): NA

Flammable Limits: LEL: NA UEL: NA

Pyrophoric, oxidizer, organic peroxide: No Pressurized during shipment: No Extinguishing Media: NA Special Fire Fighting Procedures: NA Unusual Fire/Explosion Hazards: NA

## **Reactivity Data**

Stability: Stable
Conditions to avoid: None
Materials to avoid (incompatibility): None
Hazardous decomposition or by-products: None

Hazardous polymerization: Will not occur

**Section 6: First Aid Measures** 

**Specialized medical treatment required:** No

**Toxicity Data:** Not toxic to mammals or aquatic environments. Not

persistent in the environment. Freshwater and saltwater bioassays performed according to the States California and

Washington available upon request.

**Health Hazard Data (non-chemical)** 

**Target Organs:** Lungs, eyes, skin.

Route(s) of Entry:

Inhalation Skin Eyes Ingestion

Fine particulates (PM-10) in the form of dust possible during blasting, loading/unloading, processing and packaging.

Abrasion injuries with high velocity, direct exposure to skin.

ies with Abrasion injuries direct possible if safety glasses in. are not worn. Contact

lens use may be dangerous when handling this product.

Carcinogenicity
None

NTP No IARC Monographs

**OSHA-Regulated** 

Toxic effects will not

occur.

None No

Teratogenic Mutagenic
No No

**Special Note:** Engineering controls should be used to prevent exposures above the PEL. When engineering controls are insufficient, NIOSH approved respirators and/or supplied air should be used. Additional health hazards may be encountered during abrasive blasting operations while removing paints, coatings, rust, etc. Specific health hazards and environmental concerns must be properly assessed by the user and/or potential waste generator.

## Signs and symptoms of exposure – *likely only in extreme and unusual conditions:*

InhalationSkinEyesIngestionCoughing, shortnessRedness, sensitivityRedness, wateringUnknownof breath

**Medical conditions aggravated by exposure –** *likely only in extreme and unusual conditions:* 

InhalationSkinEyesIngestionExisting disorderExisting disorderContact lens useUnknownincreases risk ofincreases risk ofdiscomfort and injury.discomfort and injury

#### First Aid Measures - Continued

**Emergency and first aid procedures –** *likely only in extreme and unusual conditions:* 

Trunk/torso/limbs: Follow procedures appropriate to abrasion or trauma injuries

Skin: Follow procedures appropriate to abrasion injuries.

Eyes: Flush thoroughly with cool running water.

Inhalation: Follow procedures appropriate to dust inhalation.

Ingestion: Not likely.

**Note to physicians:** No toxic substances are present in this product.

## Section 7: ACCIDENTAL RELEASE MEASURES

**Loading/unloading:** A release will pose a housekeeping problem. Material should be

swept or vacuumed into appropriate containers.

**Waste disposal method:** If the spent grit remains uncontaminated per the Resource Recovery

and Conservation Act (RCRA), then the material meets the definition

of a solid waste and may be disposed of per local regulations.

If the spent grit material has been used in a manner that

accumulates contaminates at levels above those specified under RCRA, then the waste is defined as hazardous and must be managed

per federal or state regulations governing hazardous waste.

**Precautions to be taken** 

**Local Exhaust** 

Follow good housekeeping practices to reduce practices to reduce airborne emissions. Use approved respiratory protection and clothing in handling and storing:

in abrasive blast environments.

**Exposure Controls:** Respiratory protection: NIOSH-approved respiratory equipment for

abrasive blast environments. Personal protection: NIOSH-approved

Other

May be required

garments and head gear during blasting operations.

**Engineering controls:** Always use engineering controls to limit exposures to

Mechanical Exhaust Special Exhaust

During May be appropriate May be appropriate

loading/Unloading during processing. during normal during unusual abrasive blasting abrasive blasting

operations. operations.

# **Section 8: DEPARTMENT OF TRANSPORTATION REQUIREMENTS**

Name of Contents: Abrasive grit

Constituents: No hazardous substances present at regulated levels

Hazard Class: Not applicable UN/NA Number: Not applicable

## Average Trace Metal Analytical

Analyte	Total Metal mg/kg	Method PQL*	TCLP Level mg/L	Method PQL*
Antimony (Sb)	N/D	1.0	-	-
Arsenic (As)	9.0	0.3	N/D	0.01
Barium (Ba)	306.3	5.0	0.49	0.10
Beryllium (Be)	N/D	0.5	-	-
Cadmium (Cd)	N/D	0.5	N/D	0.01
Chromium (Cr)	36.9	0.5	N/D	0.01
Copper (Cu)	1481.0	1.0	-	-
STLC (Cu)**	1.57 mg/L	-	-	-
Lead (Pb)	3.3	0.5	N/D	0.01
Mercury (Hg)	N/D	0.1	N/D	0.02
Nickel (Ni)	14.5	2.5	-	-
Selenium (Se)	N/D	1.0	N/D	0.10
Silver (Ag)	N/D	1.0	N/D	0.02
Thallium (Ti)	N/D	1.0	-	-
Zinc (Zn)	72.4	0.5	-	-

Based upon lab work performed during years 2007, 2008, 2009

<sup>\*</sup> PQL = Practical Quantification Limit

<sup>\*\*</sup> Additional testing performed on Cu only, 10x Rule, units of measure in mg/L.