Safety Data Sheet

January 22, 2025

KLEEN BLAST ABRASIVE

1. PRODUCT AND COMPANY INDENTIFICATION

Trade Name: Kleen Blast
Typical Usage: Abrasive sand applications, i.e. abrasive blasting, cleaning, surface preparation, non-skid surfacing
Manufacturer: CanAm Minerals dba Kleen Blast
50 Oak Ct., Suite 210 Danville, CA 94526
Emergency: (925) 831-9800 (800) 356-7323
FAX (925) 831-9183

Kleen Blast Warehouse Distribution:

Tacoma, WA	Portland, OR	Hayward, CA	El Cajon, CA	Rancho Cucamonga, CA
1448 St. Paul Avenue Tacoma, WA 98421 (253) 383-2168 (800) 228-4786 FAX (253) 383-2267	3747 N. Suttle Road Portland, OR 97217 (503) 228-3965 (800) 634-8499 FAX (503) 228-6807	30028 Industrial Pkwy S.W. Hayward, CA 94544 (510) 471-2100 (800) 227-1134 FAX (510) 471- 2447	1364 Pioneer Way El Cajon, CA 92020 (619) 427-4711 FAX (619) 427 4711	9871 8th Street Rancho Cucamonga, CA 91730 (909) 941-4078 FAX: 909 941 4248

2. HAZARD IDENTIFICATION

Emergency Overview: Nonflammable, black color, angular to sub-angular granules with no apparent odor.

- This product is not hazardous material based upon current information and testing results.
- This product does not contain substances at levels regulated:
  OSHA under 29 CFR 1910.1200
  USEPA under 40 CFR 302.4 and 40 CFR 355.4
  USEPA under 40 CFR 261.20
  USEPA under 40 CFR 116.4

Primary Route(s) of Entry: Inhalation: Yes **Ingestion:** No **Skin:** No **Other:** No

Acute Health Hazards

Eye: Dusts may cause minor irritation, redness and sensitivity. Particulate matter may scratch the cornea or cause other mechanical injury to the eye. May occur during blasting, loading/unloading, processing and packaging. Contact lenses may be dangerous when handling this product, increasing the risk of discomfort and injury.

Skin: Not absorbed through the skin. May cause abrasion injuries with high velocity, direct exposure to the skin.

Ingestion: Nontoxic/toxic effects will not occur. Ingestion is not anticipated under normal working conditions.
Inhalation: Product will act as a nuisance dust. Inhalation of high concentrations of dust may cause coughing and mild, transitory respiratory irritation. May cause slight irritation of mucous membranes.
Trauma: Hazard associated with handling equipment or sudden release of large volumes. Abrasion injuries possible during blasting operations or similar exposure.

Chronic Health Hazards

Inhalation: Respiratory illness because 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.
Medical Conditions Aggravated by Exposure: Repeated inhalation of dust over time may aggravate pre-existing respiratory disease. Precautions should be taken to alleviate the pre-existing medical condition.
Target Organs: Lungs, Skin, Eyes
Carcinogenicity: **NTP:** No, **IARC Monographs:** No, **OSHA Regulated:** No
Teratogenic: No, **Mutagenic:** No
Hazardous polymerization: Will not occur

HAZARD SYMBOLS:

Health	**1***
Flammability	**0**
Physical Hazard	**0**
Protective Equipment	

HMIS PERSONAL PROTECTIVE EQUIPMENT (PPE) RATING:

Industrial Use Situations: Safety Glasses

CANADIAN WHIMIS SYMBOLS:

Not applicable. This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the SDS contains all of the information required by the CPR.

OSHA REGULATORY STATUS:

While this material is not classified as hazardous under OSHA regulations, this SDS contains valuable information critical to safe handling and proper use of the product. SDS

PACKAGE SYMBOLS:

Identity (as used on label and list): Kleen Blast
Synonyms: 8-12 (Large), 16-30 (Coarse), 35 (Medium), 30-60 (Fine) - numbers indicated are all nomenclature for sizing

3. COMPOSITION/INFORMATION

Common Name: Iron Silicate Copper Slag
Contents: Vitreous Smelter Slag (Iron Silicate Copper 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% SiO_2; 27.4% Fe_2O_3; 22.8% CaO; 5.7% Al_2O_3; 3.9% MgO; 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 the U.S. EPA RCRA 8 metals, the 17 California listed metals. Listed metals are either not detected 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: ACGIH TLV: Not established.
Total Nuisance Dust: 10 mg/m3 **Respirable Dust:** 5 mg/m3

4. FIRST AID INFORMATION

Likely only in extreme conditions:
Ingestion: Not likely. Do not induce vomiting.
Inhalation: Remove to fresh air and follow procedures for dust inhalation.
Skin: Follow procedures appropriate to abrasion injuries.
Eyes: Flush thoroughly with cool running water or fluids from eye wash station.
Trunk/Torso/Limbs: Follow procedures appropriate to abrasion or trauma.
Note to physicians: No toxic substances are present in the product itself.

5. FIRE-FIGHTING MEASURES

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

6. 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 in handling and storing: Follow good housekeeping practices to reduce airborne emissions. Use approved respiratory protection and clothing in abrasive blast environments.
Exposure Controls: Respiratory protection: NIOSH-approved respiratory equipment for abrasive blast environments. Personal protection: NIOSH-approved garments and head gear during blasting operations.

Engineering Controls: Always use engineering controls to limit exposures to

Local Exhaust	Mechanical Exhaust	Special Exhaust	Other
During loading and unloading	May be appropriate during processing	May be appropriate during normal abrasive blasting operations.	May be required during unusual abrasive blasting operations

7. HANDLING & STORAGE

Handling: Minimize dust generation and accumulation. Use with adequate ventilation and avoid breathing dust.
Storage: Store in a dry place

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION PPE

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.

Ventilation and Engineering Controls: Use with adequate ventilation. Local exhaust ventilation is preferred and should be designed by a professional industrial hygienist. Proper exhaust equipment pertinent to the job should be used.

Respiratory Protection: In enclosed spaces maintain oxygen levels above 19.5%. If respiratory protection is required, follow the requirements of the Federal OSHA Respiratory

Protection Standard (29CFR 1910.134) or equivalent state standards.

Eye Protection: Splash goggles or safety glasses are recommended.
Hand Protection: Wear any polymer gloves resistant to tears if prolonged exposure is planned.

Body Protection: Use body protection appropriate for the task.

9. PHYSICAL & CHEMICAL PROPERTIES

Appearance: black color, angular to sub-angular granules.- **Odor:** None **pH:** N/A **Melting Point:** 2,400 **Initial Boiling point:** N/A **Boiling Range:** N/A **Flash Point:** N/A **Evaporation rate:** N/A **Flammability:** N/A **Upper/Lower Flammability:** N/A	**Explosive limits:** N/A **Auto-ignition temperature:** N/A **Vapor pressure:** (mm Hg) NA **Vapor Density:** (Air=1) N/A **Solubility Partition coefficient:** noctanol/water **Viscosity:** N/A **Specific Gravity:** (H20=1) 2.8 **Hardness (Mohs Scale):** 7-8.5 **in Water:** None (Butyl Acetate=1)

10. STABILITY & REACTIVITY

Material is stable. No known conditions causing instability. There are no known incompatible materials.

11. TOXICOLOGICAL INFORMATION

Material is nontoxic and poses little or no immediate hazard. This material is stable.

12. ECOLOGICAL INFORMATION

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 on request.

13. DISPOSAL CONSIDERATIONS

Spent abrasive material should be evaluated for contamination resulting from its use. If uncontaminated, it may typically be disposed of as non-hazardous solid waste in accordance with local, state, and federal regulations. However, if the spent material contains regulated contaminants above threshold levels, it must be managed as hazardous waste. Users are advised to consult with a qualified industrial hygienist or environmental professional to assess the nature of the waste and ensure appropriate handling, sampling, and disposal practices are followed.

14. TRANSPORT INFORMATION

Department of Transportation Requirements

NAME OF CONTENTS: Abrasive Grit
CONSTITUENTS: No Hazardous substances present at regulated Levels
HAZARD CLASS: N/A
UN/NA NUMBE: N/A

AVERAGE TRACE METAL ANALYTICAL (see page 5 and 6)

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	10.5	N/D	0.1
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 2018, 2019, and 2020.
*PQL = Practical Quantification Limit
**Additional testing performed on Cu only, 10x Rule, units of measure in mg/L

15. REGULATORY INFORMATION

Judgments as to the suitability of the information herein are for purchaser's purposes and are necessarily purchaser's responsibility. Although reasonable care has been taken in the preparation of such information, CanAm dba: Kleen Blast makes no representations and assumes no responsibility as to the accuracy or suitability of such information for application to purchasers intended purposes or for consequences of its use.

Complies with ANSI Z400.1 Draft Standard Complies with OSHA Hazard Communication for the Preparation of Safety Data Sheets, Standard 29 CFR 1910.1200
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Safety Data Sheet U.S. Department of Labor

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.

16. Other

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