

Mobile ABRASIVES

SAFETY DATA SHEET

First Prepared: November 1, 2018 Revision Date: March 15, 2019

I. PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME AS LABELED: Black Blast. All grades.
CHEMICAL NAME & FORMULA: Iron Silicate, mainly in the form of Fe_2O_3 and SiO_2 .
GENERAL USE: abrasive or roofing product.
MANUFACTURER: Mobile Abrasives, 6927 Mac Drive, Theodore, AL 36582
Phone 251-694-0023; Email: info@mobileabrasives.com
24-HR EMERGENCY TELEPHONE NUMBER: 251-694-0023

II. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS

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

EMERGENCY OVERVIEW

Immediate Concerns: Black Blast is not flammable, combustible or explosive; and poses no unusual hazard in an unused condition. During use for abrasive blasting, dust may irritate the respiratory tract, skin and eyes; and may cause inflammation and pulmonary fibrosis.

III. COMPOSITION/INFORMATION ON INGREDIENTS

CAS Number	Chemical Name	Percent (%)	OSHA-PEL
1309-37-1	Iron Oxide [Fe_2O_3]	56 - 70	10 mg/m^3 (Fume)
7631-86-9	Silicon Dioxide [SiO_2]	27 - 30	80 mg/m^3 / (% SiO_2) (Total Dust)
	Silicon Dioxide [SiO_2 Crystalline "Free Silica"] in the form of:		
14464-46-1	Cristobalite	Not Detectable	5 mg/m^3 / (% SiO_2+2) (Respirable Dust)
15468-32-3	Tridymite	Not Detectable	5 mg/m^3 / (% $\text{SiO}_2 + 2$) (Respirable Dust)
14808-60-7	Quartz	<0.1	10 mg/m^3 / (% SiO_2+2) (Respirable Dust)
1344-28-1	Aluminum Oxide [Al_2O_3]	2 - 4	15 mg/m^3 (Total Dust)
7440-50-8	Copper [Cu]	0.9 - 1.15	100 mg/m^3
1305-78-8	Calcium Oxide [CaO]	0.8 - 2	5 mg/m^3 (Total Dust)
7440-66-6	Zinc [Zn]	0.6 - 2	5 mg/m^3

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1309-48-4	Magnesium Oxide [MgO]	0 - 2	15 mg/m ³ (Fume)
12136-45-7	Potassium Oxide [K ₂ O]	0 - 3	Not Established
13463-67-7	Titanium Dioxide [TiO ₂]	0 - 2	15 mg/m ³ (Total Dust)

IV. FIRST AID MEASURES

EYE CONTACT: Flush with water for at least 15 minutes. If irritation or redness persists, see a physician.

SKIN CONTACT: Wash with soap and water. If irritation persists, see a physician.

INHALATION: Remove to fresh air at once. Apply artificial respiration if in breathing difficulties.

INGESTION: Give one or two glasses of water. If discomfort persists, see a physician.

V. FIRE FIGHTING MEASURES

FLAMMABLE CLASS: This product is non-combustible.

GENERAL HAZARD: None known.

FIRE EXTINGUISHING MATERIALS: water spray: x carbon dioxide: x foam: x dry chemical: x

UNUSUAL FIRE-FIGHTING PROCEDURES: None.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None.

FIRE FIGHTING PROCEDURES: Use fire-extinguishing media appropriate for surrounding materials. Move product containers from fire area if it can be done without risk. Cool containers by flooding until heat is dissipated.

HAZARDOUS DECOMPOSITION PRODUCTS: None known

VI. ACCIDENTAL RELEASE MEASURES

SPILL RESPONSE PROCEDURES: Avoid generating dust. Clean up with wet methods and vacuuming.

Dispose of collected material in accordance with local, state, and federal regulations.

VII. HANDLING AND STORAGE

HANDLING: Wear appropriate personal protective equipment when blasting; if not blasting, wash hands after use.

STORAGE: Limit dust generation. Keep dry.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION AND ENGINEERING CONTROLS: Keep dust levels below PELs listed in Section III and provide adequate ventilation.

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RESPIRATORY PROTECTION (TYPE): Use OSHA or NIOSH-approved filters as dust exposure approaches the ACGIH Threshold Limit Values (TLVs). Use supplied air in abrasive blasting operations.

EYE PROTECTION: Safety glasses with side shields.

GLOVES: Leather, rubber, cloth, or canvas to prevent any skin irritation.

OTHER PROTECTIVE CLOTHING AND EQUIPMENT: Ear protectors when blasting. Long sleeves and pants to prevent any skin irritation.

WORK PRACTICES, HYGIENIC PRACTICES: Clean up spills promptly. Practice good personal hygiene. Wash or shower after use. Launder contaminated clothing before re-use.

IX. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Solid, glossy, black, angular granules.

pH: 5.0

Boiling point: N/A.

Evaporation rate: None.

Flammability: Non-flammable

Vapor density (Air=1): Not applicable.

Bulk Density: 110-130 lbs./ft.³

Odor: None.

Specific gravity (H₂O=1): 3.4-3.8

Melting point: 1027-1341°F

Flash point: N/A

Solubility in water: Negligible.

Vapor pressure (mm Hg): N/A.

Percent volatility by volume (%): None.

X. STABILITY AND REACTIVITY

Stability: Stable Unstable

Incompatibility (materials to avoid): Strong acids.

Hazardous polymerization: May occur Will not occur

Hazardous decomposition products: At extremely high temperatures, it may generate fumes of metal oxides.

Conditions to avoid: Strong acids, but material considered inert and not reactive.

XI. TOXICOLOGICAL INFORMATION

ROUTES OF ENTRY: Inhalation, ingestion, and skin absorption.

HEALTH HAZARDS:

Acute: Can cause respiratory inflammation resembling pneumonia. Contact with skin that has been scraped or cut may cause rashes or ulcers. Eye irritant from dust or particulates.

Chronic: Inhalation of dust over a long period of time increases the risk of developing lung diseases, including pneumoconiosis.

SYMPTOMS OF OVEREXPOSURE:

Inhaled: Shortness of breath, coughing, reduced pulmonary function, weight loss, chest pain, fatigue.

Contact with eyes or skin: Irritation, possible skin rashes or ulcers.

Swallowed: Gastro-intestinal discomfort.

CARCINOGENICITY

IARC: Iron silicate (CAS No. 67711-92-6) is not listed by IARC.

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NTP: Iron silicate (CAS No. 67711-92-6) is not listed by the National Toxicology Program in their Annual Report.

OSHA: Iron silicate (CAS No. 67711-92-6) is not listed by NIOSH on their Occupational Cancer List.

Notes:

Iron silicate (CAS No. 67711-92-6): No designation listed.

Aluminum oxide (CAS 1244-28-1): A4; Not classifiable as a 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.

Copper (CAS 7440-50-8): No designation listed.

Zinc (CAS 7440-66-6): No designation listed.

CORROSIVITY: None known.

SENSITIZATION: Not a skin or respiratory sensitizer.

NEUROTOXICITY: None known.

GENETIC EFFECTS: None known.

REPRODUCTIVE EFFECTS: None known.

TARGET ORGANS: Irritation of eyes and mucous membranes. Irritation of nose and throat and may cause respiratory tract irritation and shortness of breath.

TERATOGENIC EFFECTS: None known.

MUTAGENICITY: None known.

COMMENTS: Although manufacturer has taken reasonable care in the preparation of this Safety Data Sheet, no warranties are made. Manufacturer makes no representation and assumes no responsibility as to the accuracy or suitability of the Safety Data Sheet for the applications intended by the purchaser or user of this product.

XII. ECOLOGICAL INFORMATION

ECO-TOXICOLOGICAL INFORMATION: This product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

BIOACCUMULATION/ACCUMULATION: This product is not bio-accumulating.

DISTRIBUTION: Not available.

AQUATIC TOXICITY (ACUTE): None known.

CHEMICAL FATE INFORMATION: Not available.

XIII. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Handle as inert material. In the unused form, material may be disposed of as non-hazardous solid waste. Dispose in accordance with all applicable regulations.

COMMENTS: TCLP testing of unused product indicates that it is not a hazardous waste by characteristic.

XIV. TRANSPORT INFORMATION

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DOT SHIPPING NAME: Non-regulated material.

DOT HAZARD CLASS: Product is not regulated as a hazardous material by DOT.

COMMENTS: Unused product is not regulated as dangerous goods by IATA, IMDG, or TDG.

XV. REGULATORY INFORMATION

WHMIS 2015 Classification: This Safety Data Sheet (SDS) has been prepared to comply with this requirement.

OSHA: This SDS has been prepared to comply with the Hazard Communication Standard, 29 CFR 1910.1200.

SARA: SARA Title III, Section 313, Toxic Chemical. Chemicals identified in Section III are subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and 40 CFR 372.

TSCA: All components of this product are listed on the Toxic Substance Control Act inventory list.

CALIFORNIA PROPOSITION 65: WARNING - This product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

XVI. OTHER INFORMATION

HMIS CODING: HEALTH: 1
FLAMMABILITY: 0
PHYSICAL HAZARD: 0
PERSONAL PROTECTION: A

While the information set forth on this material safety data sheet is believed to be accurate, as of the issue date, Mobile Abrasives makes no representations regarding the accuracy or completeness of the information and assumes no liability for any loss, damage, or injury of any kind which may result from or arise out of the use or reliance on the information by any person.