

1. Chemical Name and Company Identification

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|-------------------------|---|
| 1.1 Product Name | SABR (all grit sizes) |
| Synonym(s) | Blasting Grains |
| 1.2 Application | For use in blasting markets |
| 1.3 Manufacturer | 1 New Bond Street, Worcester, MA 01615-0137 |
| 1.4 Phone | 24-Hour Emergency 1 800-243-0025 |

2. Hazards Identification

| | | |
|---|---|----------------|
| 2.1 Classification (according to Regulation (EC) No 1272/2008) | Not classified as hazardous according to the Globally Harmonized System (GHS) | |
| | Not classified as hazardous according to OSHA GHS regulations within the US | |
| | Not classified as hazardous according to the CLP regulation | |
| 2.2 Label Elements (according to Regulation (EC) No 1272/2008) | Hazard Pictograms | Not Regulated |
| | Signal Word | Not Regulated |
| | Hazard Statements | Not Regulated |
| | Precautionary Statements | Not Regulated |
| 2.3 Other Hazards | Long term inhalation of product dust may be harmful. There are no other hazards not otherwise classified that have been identified. | |
| | PBT/vPvB Assessment | Not Applicable |

3. Component Information

| Chemical Name | CAS # | % by Weight (typical) |
|------------------|------------|-----------------------|
| Aluminum Oxide | 1302-74-5 | 65-70 |
| Silicon Dioxide | 7631-86-9 | 10-15 |
| Iron (III) Oxide | 1309-37-1 | 10-15 |
| Titanium Dioxide | 13463-67-7 | 3-4 |

4. First Aid Measures

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| 4.1 Description of First Aid Measures | After Inhalation | Supply fresh air. Consult doctor in case of complaints. Provide oxygen treatment if affected person has difficulty breathing. |
| | After Skin Contact | Brush off loose particles from skin. Wash with soap and water. If skin irritation is experienced, consult a doctor. |
| | After Eye Contact | Remove contact lenses if worn. Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. |
| | After Swallowing | Do not induce vomiting. Call for medical help immediately. |
| 4.2 Most Important Symptoms and Effects | Breathing difficulty, coughing, mechanical irritation to eyes. Long term inhalation of product dust may be harmful. | |

5. Firefighting Measures

| | | |
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| 5.1 Extinguishing Media | Suitable Extinguishing Agents | The product is not flammable. Use fire extinguishing methods suitable to surrounding conditions. |
| | Unsuitable Extinguishing Agents | None |
| 5.2 Special Hazards | None | |
| 5.3 Advice for Firefighters | Protective Equipment | Wear self-contained respiratory protective device. Wear fully protective suit. |

6. Accidental Release Measures

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|--|--|
| 6.1 Personal Precautions, Protective Equipment and Emergency Procedures | Use personal protective equipment as required. Avoid formation of dust. Avoid breathing dust. For large spills, use respiratory protective device against the effects of fumes/dust/aerosol. |
| 6.2 Environmental Precautions | No special measures required. |
| 6.3 Methods and Material for Containment and Cleaning Up | Pick up mechanically. Dispose of the material collected according to regulations. |
| 6.4 Reference to Other Sections | See Section 7 for information on safe handling. See Section 8 for information on PPE. See Section 13 for disposal information. |

7. Handling and Storage

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| 7.1 Precautions for Safe Handling | Prevent formation of dust. Avoid breathing of dust. Ensure good ventilation/exhaustion at the workplace. No special measures required for fire/explosion protection. |
| 7.2 Conditions for Safe Storage | Storage area should be dry and well-ventilated |
| 7.3 Specific End Use(s) | No further relevant information available |

8. Exposure Control/Personal Protection

8.1 Control Parameters

| Ingredient | CAS# | Long-Term Exposure Limit Test | Total Dust | Respirable Dust |
|--|-----------|-------------------------------|---------------------------|--------------------------|
| Corundum (Al ₂ O ₃) | 1302-74-5 | EL/EV (Canada) | 10mg/m ³ | 1mg/m ³ as Al |
| | | WEL (Great Britain) | 10mg/m ³ | 4mg/m ³ |
| | | OEL (Ireland) | 10mg/m ³ | 4mg/m ³ |
| | | PEL (USA) | 15mg/m ³ | 5mg/m ³ |
| | | REL (USA) | 10mg/m ³ as Al | 5mg/m ³ as Al |
| | | TLV (USA) | - | 1mg/m ³ as Al |

8.2 Exposure Controls

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|--|--|
| Engineering Measures | Provide adequate ventilation |
| General Protective and Hygienic Measures | The usual precautionary measures are to be adhered to when handling chemicals. Keep away from foodstuffs, beverages and feed. Avoid contact with the eyes. Avoid breathing dust. |
| Respiratory Protection | Not required under normal conditions of use. An EU approved dust respirator should be used for operations generating dust. |
| Protection of Hands | Wear gloves for protection against mechanical hazards according to NIOSH or EN 388 |
| Eye Protection | Follow relevant national guidelines concerning the use of protective eyewear |
| Body Protection | Not required under normal conditions of use |
| Limitation and Supervision of Exposure Into the Environment | No special requirements |
| Risk Management Measures | No special requirements |

9. Physical and Chemical Properties

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|--------------------------------|--|
| Appearance | Grayish brown to black free-flowing granules |
| Odor | Odorless |
| Flash Point | Not applicable |
| Stability | Stable |
| pH | Not applicable |
| Vapor Pressure @ 25 °C | Not determined |
| Viscosity | Not applicable |
| Solubility in Water | Insoluble |
| Explosion Properties | Product does not present an explosion hazard |
| Oxidizing Properties | Non-oxidizing |
| Relative Density | 3.2 |
| Melting/Freezing/Boiling Point | Not determined |

10. Stability and Reactivity

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|---|--|
| 10.1 Reactivity | No further relevant information available |
| 10.2 Chemical Stability | Stable under normal temperatures and pressures |
| 10.3 Possibility of Hazardous Reactions | No dangerous reactions known |
| 10.4 Conditions to Avoid | Prevent formation of dust |
| 10.5 Incompatible Materials | Oxidizers, strong bases, strong acids |
| 10.6 Hazardous Decomposition Products | No dangerous decomposition products known |

11. Toxicological Information

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|-----------------------------|---|
| Acute Toxicity | Classification criteria not met |
| LD50/LC50 Values | None |
| Probable Routes of Exposure | Inhalation, ingestion, eye contact, skin contact |
| Repeated Dose Toxicity | Repeated or long-term inhalation of product dusts may cause pulmonary disease |

Based on available data, the classification criteria are not met for skin corrosion/irritation, serious eye damage/irritation, respiratory or skin sensitization

12. Ecological Information

None

13. Disposal Conditions

Smaller quantities can be disposed of with household waste. Contact waste processors for recycling information. Dispose of according to local, state/provincial and federal requirements.

14. Transportation Information

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|--|---------------|
| 14.1 UN-Number: DOT, ADR, IMDG, IATA | Not Regulated |
| 14.2 UN Proper Shipping Name: DOT, ADR, IMDG, IATA | Not Regulated |
| 14.3 Transport Hazard Class(es) | Not Regulated |
| 14.4 Packaging Group: DOT, ADR, IMDG, IATA | Not Regulated |
| 14.5 Environmental Hazards - Marine Pollutant | No |

15. Regulatory Information

| | | |
|---|--------------------------------------|------|
| SARA Title III | Section 313 | None |
| | Section 355 | None |
| Toxic Substance Control Act (TSCA) | All ingredients are listed or exempt | |
| EPA (Environmental Protection Agency) | None of the ingredients are listed | |
| IARC (International Agency for Research on Cancer) | None of the ingredients are listed | |
| Canadian Domestic Substances List (DSL) | All ingredients are listed | |
| Directive 2012/18/ EU: Named Dangerous Substances - ANNEX I | None of the ingredients are listed | |
| California State Proposition 65 | None of the ingredients are listed | |



16. Other Information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bio-accumulable, Toxic

vPvB: very Persistent and very Bioaccumulative



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