



SDS – Safety Data Sheet

Section 1: Identification

Product Identifier Crushed Glass

Synonyms: Crushed Glass, Abrasive Blast Media

Product Name Clean Bite, R14-T, R18-F, Coarse, Medium, Fine, R21-T, R28-F, R100

Relevant identified uses of the substance or mixture and uses advised against


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|------------------------|---|
| Recommended Use | Material is a granular material for use as an abrasive blasting media and various other industrial applications. This product is amorphous and contains no free crystalline silica. This MSDS covers many grades and individual physical and chemical properties. |
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Details of the supplier of the safety data sheet

| | |
|----------------------------|---|
| Manufacturer | NC Minerals, LLC |
| | 1401 WEST 94 TH ST. |
| | MINNEAPOLIS, MN 55431 |
| | United States |
| | http://www.ncm-minerals.com/ |
| Telephone (General) | (952) 943-2244 |
| | |

Emergency telephone number **911 / 952-212-6541**

Section 2: Hazard Identification

| Classification of Substance or Mixture | |
|--|---|
| OSHA HCS 2012 | Specific Target Organ Toxicity - Repeated Exposure, Category 1 |
| Label elements | |
| OSHA HCS 2012 | DANGER |
| |  |
| Hazard statement | May cause eye irritation. Causes damage to organs through prolonged or repeated exposure. May cause respiratory tract irritation |
| Precautionary statements | |
| Prevention | Wear eye protection. Avoid breathing dust. Wear respiratory protection (in case of inadequate ventilation). |
| Response | IF ON SKIN: Rinse with water. IF IN EYES: Rinse with water, seek medical attention if discomfort continues. IF INHALED: Move the exposed person to fresh air, keep at rest and comfortable. IF SWALLOWED: Rinse mouth. |
| Storage/Disposal | |
| Storage | Keep product dry. |
| Disposal | Generally inert. Dispose in accordance with regulations. |

Section 3: Composition/Information on Ingredients

| CAS No. | Chemical Name | Percent wt. |
|------------|-------------------|-------------|
| 65997-17-3 | Glass, amorphous | 100% |
| 7631-86-9 | Silicon Dioxide | 60-75% |
| 1344-81-2 | Aluminum Oxide | <2.1% |
| 1305-78-8 | Calcium Oxide | 5-12% |
| 1309-48-4 | Magnesium Oxide | <4% |
| 1313-59-3 | Sodium Oxide | 12-18% |
| 68784-55-4 | Calcium Phosphate | < 1.2% |
| | | |

Section 4: First-Aid Measures

| Description of First Aid Measures | |
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| Inhalation | If discomfort, irritation or symptoms of pulmonary involvement develop, remove from exposure, give oxygen and seek medical attention. |
| Skin | Remove contaminated clothing. Thoroughly wash affected area with mild soap or detergent and water and prevent further contact. Seek medical attention if irritation occurs. |
| Eye | Do not rub eyes. Wash eyes, including under eyelids, immediately with copious amounts of water for 15 minutes. Contact lenses should not be worn when working with this material. Seek medical attention. |
| Ingestion | In the unlikely event of ingestion of a large quantity of material, do not induce vomiting; drink water or milk; seek medical attention. |
| Most important symptoms and effects | |
| Acute (immediate) | Refer to Section 11 - Toxicological Information. |
| Chronic (delayed) | Refer to Section 11 - Toxicological Information. |
| Indication of any immediate medical attention and special treatment needed | |
| Notes to Physician | All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred. |

Section 5: Fire-Fighting Measures

| Extinguishing media | |
|--|---|
| Suitable Extinguishing Media | Non-flammable |
| Unsuitable Extinguishing Media | No specific information. |
| Special hazards arising from the substance or mixture | |
| Unusual Fire and Explosion Hazards | No specific information |
| Hazardous Combustion Products | No specific information |
| Advice for Firefighters | Standard personal protective equipment. |

Section 6: Accidental Release Measures

| Personal precautions, protective equipment and emergency procedures | |
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| Personal Precautions | Use adequate ventilation or dust mask approved by NIOSH. Wear adequate eye protection. |
| Emergency Procedures | No special emergency procedures, use adequate ventilation. |
| Environmental Precautions | |
| | Avoid run off to waterways and sewers |
| Methods and material for containment and cleaning up | |
| Containment | Contain and cover spill to minimize dust emission |
| Clean-up | Clean up by sweeping, shoveling, vacuuming, or flushing with water. |
| Neutralizing Chemicals | None required |
| Disposal | Generally inert. Dispose in accordance with regulations – or recycle and use beneficially in other applications. |

Section 7: Handling and Storage

| Precautions for safe Handling | |
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| Handling | Use adequate ventilation and/or dust mask approved by NIOSH. Wear adequate eye protection. Exposed skin may become dry and irritated with prolonged contact. Avoid contact with food and ingestion. |
| Conditions for safe storage, including any incompatibilities | |
| Storage | Keep product dry. Provide proper ventilation when handling this material to minimize dust. |
| Incompatible Materials or Ignition Sources | Avoid contact with hydrofluoric acid |

Section 8: Exposure Controls/Personal Protection

| Chemical Name | Percent wt. | ACGIH TLV (TWA) (mg/m ³) | OSHA PEL (TWA) (mg/m ³) | NIOSH REL (TWA) (mg/m ³) | Cancer |
|-------------------|-------------|--------------------------------------|-------------------------------------|--------------------------------------|--------|
| Glass, amorphous | 100% | 10 | 10 | 6 | No |
| Silicon Dioxide | 60-75% | 10 | 15 (total) 5 (resp) | 6 | No |
| Aluminum Oxide | <2.1% | 10 | 10 (total) 5 (resp) | Not established | No |
| Calcium Oxide | 5-12% | 2 | 2 | 2 | No |
| Magnesium Oxide | <4% | 10 (fume) | 10 (total) (resp) | 1 | No |
| Sodium Oxide | 12-18% | Not established | Not established | Not established | No |
| Calcium Phosphate | < 1.2% | 10 (total) | 15 (total) | Not established | No |

Control Parameters

Ensure ventilation is adequate to maintain dust exposure below the exposure standard for personnel adjacent to the grit blasting area.

Ensure that all blast cleaning equipment complies with Workcover and all appropriate Regulatory Authority Regulations and Codes of Practice.

Exposure Controls

Operator must wear Abrasive Blast Helmet Air Line Respirator of a type complying with AS1716. A protective Leather Jacket or suit, Leather Hand and Foot protection with Steel Toe Cap inserts. Use hearing protection when working in blast cleaning operations.

Respiratory Protection: Appropriate dust mask should be used. Avoid prolonged or frequent exposure to media unless there is adequate ventilation.

Ventilation: Avoid inhalation of any airborne dust. Provide local exhaust

Hand and Eye Protection: Appropriate hand and eye protection should be worn (goggles, safety gloves). Protect eye/skin from flying glass fragments.

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| Section 9: Physical and Chemical Properties |
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| Material Description | | | |
|---|------------------|--|---------------|
| Physical Form | Off-White powder | Appearance/Description | Crushed glass |
| Color | Off-White | Odor | Negligible |
| Taste | Negligible | Particulate Type | |
| Particulate Size | 76 µg | Aerosol type | Not relevant |
| Odor Threshold | NA | Physical and Chemical Properties | Data Lacking |
| General Properties | | | |
| Boiling Point | NA | Melting Point | 800° C |
| Decomposition Temperature | NA | Heat of Decomposition | Data Lacking |
| pH | 6 | Specific Gravity/Relative Density | 2.46 |
| Density | 88 lbs./cu. Ft. | Bulk Density | Data lacking |
| Water Solubility | Insoluble | Solvent Solubility | Data lacking |
| Viscosity | Not relevant | Explosive Properties | |
| Oxidizing Properties | | | |
| Volatility | | | |
| Vapor Pressure | Not relevant | Vapor Density | Not relevant |
| Evaporation Rate | Not relevant | VOC (Wt.) | Not relevant |
| VOC (Vol.) | Not relevant | Volatiles (Wt.) | Not relevant |
| Volatiles (Vol.) | Not relevant | | |
| Flammability | | | |
| Flash Point | Not combustible | UEL | Not relevant |
| LEL | Not relevant | Autoignition | Not relevant |
| Self-Accelerating Decomposition Temperature (SADT) | Not relevant | Heat of Combustion (ΔHc) | Not relevant |
| Burning Time | Not relevant | Flame Duration | Not relevant |

| | | | |
|--|--------------|---|-----------------|
| Flame Height | Not relevant | Flame Extension | Not relevant |
| Ignition Distance | Not relevant | Flammability (solid, gas) | Not combustible |
| Environmental | | | |
| Half Life | Data lacking | Octanol/Water Partition coefficient | Not relevant |
| Coefficient of water/oil distribution | Not relevant | Bioaccumulation Factor | Data lacking |
| Bioconcentration Factor | Data lacking | Biochemical Oxygen Demand (BOD/BOD5) | Not relevant |
| Chemical Oxygen Demand | Data lacking | Persistence | Data lacking |
| Degradation | Data lacking | | |

Section 10: Stability and Reactivity

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| Reactivity | Most common chemicals are non-reactive with glass |
| Chemical Stability | Stable under normal conditions |
| Possibility of hazardous Reactions | Glass will react with Hydrofluoric Acid |
| Conditions to avoid | As with any dust, there is the potential for a dust explosion and thus ventilation should be such that gross levels of dust do not accumulate. |
| Incompatible materials | Glass will react with Hydrofluoric Acid |
| Hazardous decomposition products | Will not occur |

Section 11: Toxicological Information

Information on toxicological effects

| GHS Properties | Classification |
|-------------------------------|--|
| Acute toxicity | OSHA HCS 2012 • Classification criteria not met |
| Aspiration Hazard | OSHA HCS 2012 • Classification criteria not met |
| Carcinogenicity | OSHA HCS 2012 • Classification criteria not met |
| Germ Cell Mutagenicity | OSHA HCS 2012 • Classification criteria not met |
| Respiratory sensitization | OSHA HCS 2012 • Classification criteria not met |
| Serious eye damage/Irritation | OSHA HCS 2012 • Classification criteria not met |
| Skin corrosion/Irritation | OSHA HCS 2012 • Classification criteria not met |
| Skin sensitization | OSHA HCS 2012 • Classification criteria not met |
| STOT-RE 2 | OSHA HCS 2012 • May cause damage to organs through prolonged or repeated exposure |
| STOT-SE | OSHA HCS 2012 • Specific Target Organ Toxicity Single Exposure 3: respiratory irritation |
| Toxicity for Reproduction | OSHA HCS 2012 • Classification criteria not met |

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|-----------------------------------|--|
| Target Organs | |
| Route(s) of entry/exposure | Skin Contact; Eye Contact; Inhalation; Ingestion |
| Potential Health Effects | |
| Inhalation | |
| Acute (Immediate) | Irritation, coughing |
| Chronic (Delayed) | Respiratory irritation, pneumoconiosis |
| Skin | |
| Acute (Immediate) | Irritation |
| Chronic (Delayed) | Data lacking |
| Eye | |
| Acute (Immediate) | Irritation |
| Chronic (Delayed) | Data lacking |
| Ingestion | |
| Acute (Immediate) | Irritation |
| Chronic (Delayed) | Data lacking |

Section 12: Ecological Information

| | |
|--------------------------------------|-----------------------|
| Toxicity | Material data lacking |
| Persistence and degradability | Material data lacking |
| Bioaccumulative potential | Material data lacking |
| Mobility in Soil | Material data lacking |
| Other adverse effects | Material data lacking |
| Other Information | Material data lacking |

Section 13: Disposal Considerations

Waste treatment methods

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|------------------------|---|
| Product waste | Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. |
| Packaging waste | Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. |

Section 14: Transport Information

UN Number: Not applicable.

UN Proper shipping names: Not applicable.

Transport Hazard Class: Not applicable.

Packaging group: Not applicable.

Shipping and Transportation – Crushed glass is classified as a non-hazardous material by the Canadian Transportation of Dangerous Good (TDG) Regulations and the US Department of Transportations (DOT).

EU Transportation: Road (ADR); Rail (RID); Sea (IMDG); Air (ICO/IATA) – not restricted.

International Maritime Dangerous Goods (IMDG Code) – Not classified.

Transport in bulk EU Annex II of MARPOL73/78 and the IBC Code) – Not applicable.

Section 15: Regulatory information

| CAS No. | Chemical Name | SARA 302 | SARA 304 | SARA 314 | RCRA | CAA Sec. 112 |
|------------|-------------------|-------------|-------------|-------------|------|-----------------|
| 65997-17-3 | Glass, amorphous | No | No | No | No | No |
| 7631-86-9 | Silicon Dioxide | No | No | No | No | No |
| 1344-81-2 | Aluminum Oxide | No | No | No | No | No |
| 1305-78-8 | Calcium Oxide | No | No | No | No | No |
| 1309-48-4 | Magnesium Oxide | No | No | No | No | No |
| 1313-59-3 | Sodium Oxide | No | No | No | No | No |
| 68784-55-4 | Calcium Phosphate | No | No | No | No | No |

Section 16: Other Information

| | |
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| Last Revision Date | 10-17-16 |
| Preparation Date: | 7-9-15 |
| Disclaimer/Statement of Liability | The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstance of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1 |