 **DATE OF ISSUE: July 7, 2012**

# MATERIAL SAFETY DATA SHEET
# CRUSHED GLASS FILTER MEDIA

## SUPPLIER INFORMATION

**NAME:** NC Minerals, LLC
**ADDRESS:** 3231 FERNBROOK LN N., MINNEAPOLIS, MN 55447-5325
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**CONTACT:** Emergency Personnel
**EMERGENCY TLELPHONE NO:** 911

## I. PRODUCT IDENTIFICATION

PRODUCT NAME: Clean Bite,Crushed Glass, Filter Media, R14, R18, R19, R21, R44
OTHER NAMES: Glass Blast, Crushed Glass Grit, Abrasive Blasting Media
Description: 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.

HMIS Ratings:
- Health: 1
- Flamability: 0
- Reactivity: 0

## II. COMPOSITION/HAZARDOUS INGREDIENTS

| CAS No. | Chemical Name | Percent wt. | TLV | PEL | Cancer |
|---|---|---|---|---|---|
| 65997-17-3 | Glass, amorphous | 100% | 10 mg/m3 TWA (total) | 10 mg/m3 TWA | No |
| 7631-86-9 | Silicon Dioxide | 60-75% | 10 mg/m3 TWA (total) | 15 mg/m3 TWA (total)<br>5 mg/m3 TWA (resp) | No |
| 1344-81-2 | Aluminum Oxide | <2.1% | 10 mg/m3 TWA (total) | 10 mg/m3 TWA (total)<br>5 mg/m3 TWA (resp) | No |
| 1305-78-8 | Calcium Oxide | 5-12% | | 5 mg/m3 TWA | No |
| 1309-48-4 | Magnesium Oxide | <4% | 10 mg/m3 TWA (fume) | 10 mg/m3 TWA (total)<br>5 mg/m3 TWA (resp) | No |
| 1313-59-3 | Sodium Oxide | 12-18% | Not established | Not established | No |
| 68784-55-4 | Calcium Phosphate | < 1.2% | 10 mg/m3 TWA (total) | 15 mg/m3 TWA (total) | No |
| | | | | | |

## III. PHYSICAL PROPERTIES

**Appearance** Crushed Glass
Granules Ranging in Sizes
200 UM - 3000 UM
**Melting Point (0ºC)** 800ºC

**Flashpoint (0ºC):** Not Combustible
**Flammability Limits (%):** Not Relevant
**Solubility in Water (g/L):** Non-Soluble
**Physical State:** Solid

## Other Properties

| | |
|---|---|
| Hardness | 6.5 Mhos |
| Chlorides | <5 ppm |
| Specific Gravity | 2.46 |
| Free Silica (alpha quartz) | Nil |

## Packaging

50 lb Paper Bags
Bulk Bags

## IV. Fire and Explosion Hazards

Flamability: noncombustible
Fire Extinguishing Materials: Use Extinguishing agents suitable for surrounding fire
Special firefighting procedure:
Unusual Fire and Explosion Hazards:

## V. Health Hazards

EMERGENCY AND FIRST AID PROCEDURES:

| | | |
|---|---|---|
| Effects of Short-term Overexposure: | | |
| | Eye | Irritation |
| | Skin | Irritation |
| | Inhaled | Irritation, coughing |
| | Ingestion | Irritation |
| Effects of Chronic Overexposure: | | Respiratory irritation, pneumoconiosis |
| Material Exposure Limits: | | See Section II |
| Routes of Entry: | | Eyes, skin, respiratory |
| Cancer Rating: | | See Section II |

| | | |
|---|---|---|
| First Aid | Swallowed | Rinse mouth thoroughly with water |
| | Eye | 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. |
| | 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. |
| | Inhaled | If discomfort, irritation or symptoms of pulmonary involvement develop, remove from exposure and 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. |
| | First Aid Facilities | Normal first aid procedures. Seek medical attention as required. |
| Advice to Doctor | | This product is a mechasnical/physical irritant and is not expected to produce any chronic health effects from acute exposures. Remove the source of irritation and treat symptomatically |

CARCINOGENIC ASSESSMENT (NTP ANNUAL REPORT, IARC MONOGRAPHS, OTHER): none

## VI: REACITVITY DATA

Stability: Stable
Conditions to avoid:
Incompatibility (materials to avoid): Glass will react with Hydrofluoric Acid
Hazardous decomposition products (including combustion products):
Hazardous polymerization products: will not occur

## VII: PRECAUTIONS FOR SAFE HANDLING AND USE

### Safe handling information
### Storage and Transport

Use good housekeeping practices to reduce dust. Avoid breakage of bagged material or spills of bulk material. Use adequate ventilation and dust collection. Do not permit dust to collect on walls, floors, ledges, machinery, or equipment. Suggested use of dustless system (vacuum) for handling, storage and clean-up so that airborne particulate does not exceed the permissible exposure limit. Suggested use of impervious gloves and safety goggles to reduce skin and eye contact. Avoid dry sweeping. Dispose in accordance with federal, state or local regulations. Material contaminated in use may have special disposal requirements. Bags to remain closed and bulk loads covered to avoid dusting.

### Spills and Disposal

No special storage or Transport requirements necessary.

Spills: Sweep or vacuum material for disposal. Prevent generation of dust during clean up. Disposal through approved land waste site**.**

**MATERIAL CONTAMINATED IN USE MAY REQUIRE SPECIAL HANDLING.**

### Fire/Explosion Hazard

**Avoid contact with hydrofluoric acid.**

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.

## VIII. CONTROL MEASURES

### Engineering Controls

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.

## Personal Protection

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.

## IX. 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 |