

### 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

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.

### Details of the supplier of the safety data sheet

Manufacturer	NC Minerals, LLC	
	1401 WEST 94 <sup>™</sup> 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 of	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**

		Percent
CAS No.	Chemical Name	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		
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 sympt	coms and effects	
Acute (immediate)	Refer to Section 11 - Toxicological Information.	
Chronic (delayed)	Refer to Section 11 - Toxicological Information.	
Indication of any imme	ediate 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	No specific information		
Hazards			
Hazardous Combustion	No specific information		
Products			
Advice for Firefighters	Standard personal protective equipment.		

## **Section 6: Accidental Release Measures**

Personal precautions, protective equipment and emergency procedures		
Personal Precautions	Use adequate ventilation or dust mask approved by NIOSH. Wear adequate eye protection.	
<b>Emergency Procedures</b>	No special emergency procedures, use adequate ventilation.	
<b>Environmental Precautions</b>		
	Avoid run off to waterways and sewers	
Methods and material fo	or 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			
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	Avoid contact with hydrofluoric acid		
Ignition Sources			

### **Section 8: Exposure Controls/Personal Protection**

Chemical Name	Percent wt.	ACGIH TLV (TWA) (mg/m³)	OSHA PEL (TWA) (mg/m³)	NIOSH REL (TWA) (mg/m³)	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.

## **Section 9: Physical and Chemical Properties**

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	Data Lacking	
		Properties		
<b>General Properties</b>	5			
<b>Boiling Point</b>	NA	Melting Point	800° C	
Decomposition	NA	<b>Heat of Decomposition</b>	Data Lacking	
Temperature				
рН	6	Specific	2.46	
		<b>Gravity/Relative</b>		
		Density		
Density	88 lbs/cu. Ft.	<b>Bulk Density</b>	Data lacking	
Water Solubility	Insoluble	Solvent Solubility	Data lacking	
Viscosity	Not relevant	<b>Explosive Properties</b>		
Oxidizing				
Properties				
Volatility	<b>,</b>			
Vapor Pressure	Not relevant	Vapor Density	Not relevant	
<b>Evaporation Rate</b>	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	Not relevant	<b>Heat of Combustion</b>	Not relevant	
Decomposition		(ΔHc)		
Temperature				
(SADT)				
<b>Burning Time</b>	Not relevant	Flame Duration	Not relevant	

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

# Section 10: Stability and Reactivity

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

<b>GHS Properties</b>	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

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

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**

		SARA	SARA	SARA	RCRA	CAA Sec.
CAS No.	Chemical Name	302	304	314		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**

<b>Last Revision Date</b>	10-17-16
<b>Preparation Date:</b>	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