



**ARROWHEAD
FORENSICS**

SAFETY DATA SHEET ARROWSTONE

Issuing Date 22-May-2014

Revision Date

Revision Number

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

GHS product identifier

Product Name TECSTONE, ARROWSTONE

Other means of identification

Product Code(s) ARROWSTONE

Recommended use of the chemical and restrictions on use

Recommended Use Professional dental applications

Supplier's and distributor's details

Supplier Address

Garreco, LLC.
430 Hiram Road
Heber Springs, AR 72543
Phone: 1-800-334-1443

Distributor Address

ARROWHEAD FORENSICS
11030 Strang Line Road
Lenexa, KS 66215
TEL: 913-894-8388

Emergency telephone number

Emergency Telephone Number CHEMTRAC 1-800-424-9300

2. HAZARDS IDENTIFICATION

GHS classification of the substance/mixture

Substance Name

1. Undisclosed due to Confidential Business Information
2. Crystalline Silica

GHS Label elements, including precautionary statements

Hazard Symbol(s): NONE
Signal Word(s): NONE
Precautionary statements: NONE
Hazard statements: NONE

Other hazards which do not result in classification

IF ON SKIN: This material hardens and becomes hot when mixed with water. It SHOULD NOT be used to make a cast enclosing any part of the body, which may cause severe burns that may require surgical removal of affected tissue or amputation of limb. Contact with skin may cause irritation or abrasions.
Tecstone, Arrowstone

IF INHALED: Dusts from this product may irritate the nose, throat, lungs, and upper respiratory tract. May cause coughing, sneezing, and nasal irritation. Labored breathing may occur after excessive inhalation.

IF SWALLOWED: May cause gastric disturbances if swallowed. Ingestion of a sufficient quantity may mechanically obstruct the gut, especially the pyloric region.

IF IN EYES: Direct contact can cause mechanical irritation of eyes.

IARC - International Agency for Research on Cancer: 1- Carcinogenic to humans; NTP National Toxicology Program (Health and Human Services Dept., Public Health Service, NIH/NIEHS): 1- Known to be carcinogen
ACGIH American Conference of Governmental Industrial Hygienists: A2 Suspected human carcinogen
CAL-65: Listed as Chemical known to the State of California to Cause Cancer

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Concentration %	Trade secret
Undisclosed due to Confidential Business Information	NA	>99%	*
Crystalline Silica	14808-60-7	<0.05%	

*The specific chemical identity and/or percentage of composition has been withheld as a trade secret. *The exact percentage (concentration) of composition has been withheld as a trade secret.*

4. FIRST AID MEASURES

Description of necessary first-aid measures

IF ON SKIN (or hair):	Rinse with water until free of material to avoid abrasions, then wash skin thoroughly with mild soap and water.
IF INHALED:	If respiratory symptoms persist, consult physician.
IF SWALLOWED	If gastric disturbance occurs, consult physician.
IF IN EYES	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. If burning, redness, itching, pain or other symptoms persist or develop, consult a physician.

Most important symptoms/effects, acute and delayed

IF INHALED: Nuisance conditions such as coughing, sneezing, and nasal irritation. Labored breathing may occur after excessive inhalation.

IN EYES: If burning, redness, itching, pain or other symptoms persist or develop, consult a physician.

Indication of immediate medical attention and special treatment needed, if necessary

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5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Water or use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media None

Specific Hazards Arising from the Chemical

None known.

Explosion Data

Sensitivity to Mechanical Impact N/A.

Sensitivity to Static Discharge N/A.

Protective Equipment and Precautions for Firefighters

Wear appropriate personal protective equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions No special precautions. Wear appropriate personal protective equipment.

Environmental Precautions

Environmental Precautions Toxicity studies performed with fish, aquatic invertebrates and aquatic plants showed no toxic effect.

Methods and materials for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up Remove by dry-sweeping or vacuum. Avoid creating excessive dust. Do not wash down drains, may plug drains.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling None required where adequate ventilation conditions exist. Avoid creating dust. Wear a NIOSH approved dustrespirator in poorly ventilated areas/TLV requirements are exceeded.

Conditions for safe storage, including any incompatibilities

Storage Store in a dry area to minimize potential for clumping due to moisture absorption.

Incompatible Products None known based on information supplied.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Chemical	ACGIH TLV	OSHA PEL TWA
CBI	10 mg/m ³	15 mg/m ³ total, 5 mg/m ³ respirable
Crystalline Silica	0.1 mg/m ³ respirable	0.1 mg/m ³ respirable

Appropriate engineering controls

Ventilate to keep exposures below TLV requirements. General ventilation is should be satisfactory. Use local exhaust ventilation if necessary to control dust.

Individual protection measures, such as personal protective equipment

Respiratory Protection	None required where adequate ventilation conditions exist. Avoid creating dust. Wear a NIOSH/OSHA approved dust respirator in poorly ventilated areas or if TLV requirements are exceeded.
Other Protective Equipment	No special body protection is required under typical circumstances. If necessary, refer to appropriate governing standards. An eyewash station and a safety shower are recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Powder	Appearance	White to off-white.
Odor	None	Odor Threshold	No Data.

<u>Property</u>	<u>Values</u>	<u>Remarks/ - Method</u>
pH	8.0	±0.5
Melting Point/Range	1450 °C	None known
Boiling Point/Boiling Range	No data available	None known
Flash Point	None.	None known
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limits in Air		
upper flammability limit	No data available	
lower flammability limit	No data available	
Vapor Pressure	No data available	None known
Vapor Density	No data available	None known
Specific Gravity	No data available	None known
Water Solubility	No data available	None known
Solubility in other solvents	No data available	None known
Partition coefficient: n-octanol/water	No data available	None known
Autoignition Temperature	No data available	None known
Decomposition Temperature	1450 °C	None known
Viscosity	No data available	None known
Flammable Properties	Not flammable	
Explosive Properties	No data available	
Oxidizing Properties	No data available	

10. STABILITY AND REACTIVITY

Reactivity

Low, HMIS 0

Chemical stability

Stable

Possibility of hazardous reactions

Low

Conditions to avoid

Incompatible with Acids

Incompatible materials

None known based on information supplied.

Hazardous decomposition products

Decomposes to Calcium Oxide and Sulfur Dioxide at 1450

11. TOXICOLOGICAL INFORMATION

Acute toxicity	NE
Skin corrosion/irritation	NE
Serious Eye Damage / Irritation	NE
Respiratory or skin sensitization	NE
Germ cell mutagenicity	NE
Carcinogenicity	NE
Reproductive toxicity	NE
STOT-single exposure	NE
STOT-repeated exposure	NE
Aspiration Hazard	NE

Information on likely routes of exposure

Inhalation, skin and/or eye contact

Symptoms related to the physical, chemical and toxicological characteristics

difficulty breathing, rashes or irritations

Delayed and immediate effects and also chronic effects from short and long term exposure

difficulty breathing, rashes or irritations

Numerical measures of toxicity - Product

See control parameters above

12. ECOLOGICAL INFORMATION

Ecotoxicity	No information available.
Persistence and Degradability	No information available.
Bioaccumulation	No information available.
Mobility in Soil	No information available.

Other Adverse Effects

No information available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods	Sweep and dispose of in accordance with federal, state, and local regulations
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14. TRANSPORT INFORMATION

<u>DOT</u>	Not regulated
<u>TDG</u>	Not regulated
<u>MEX</u>	Not regulated
<u>ICAO</u>	Not regulated
<u>IATA</u>	Not regulated
<u>IMDG/IMO</u>	Not regulated
<u>RID</u>	Not regulated
<u>ADR</u>	Not regulated
<u>ADN</u>	Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA	No data available
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Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

U.S. Federal Regulations

Not Available

SARA 311/312 Hazard Categories

Acute Health Hazard	NA
Chronic Health Hazard	NA
Fire Hazard	NA
Sudden Release of Pressure Hazard	NA
Reactive Hazard	NA

Clean Water Act

Not Available

CERCLA

Not Available

California Proposition 65

Not Available

U.S. State Right-to-Know Regulations

Not Available

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION

<u>NFPA</u>	Health Hazard 0	Flammability 0	Instability 0	Physical and Chemical Hazards -
<u>HMIS</u>	Health Hazard 0	Flammability 0	Physical Hazard 0	Personal Protection X

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General Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet