



Safety Data Sheet

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1. PRODUCT IDENTIFICATION

Trade Name (as labeled): Castone® Cream Dental Stone
 Product Identifier (Part/Item Number): A-5025C, A-5050C, A-5100C
 U.N. Number: None
 U.N. Dangerous Goods Classification: Not Regulated for Transport
 Recommended Use: Impressions
 Restrictions on Use: For Professional Use Only
 Manufacturer/Supplier Name: Arrowhead Forensics
 Manufacturer/Supplier Address: 11030 Strang Line Road.
 Lenexa, KS 66215
 Manufacturer/Supplier Telephone Number: 913-894-8388(Product Information)
 Emergency Contact Telephone Number: 800-424-9300 Chemtrec
 Email address: info@arrowheadforensics.com

2. HAZARD(s) IDENTIFICATION

Hazard/Danger Classification (GHS/CLP):

Health	Environmental	Physical
None	None	None

Associated Hazards:

Hazard Statements	Precautionary Statements
None required	None required

EU Classification: Not Classified

EU Risk (R) and Safety (S) Phrases: None

Refer to Section 16 for the full text of the EU Classifications and R Phrases.

US Hazard Classification: Not Hazardous

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Hazardous Components	C.A.S. # EC#	EINECS #	Substance Classification	WT %
Calcium Sulfate Hemihydrate	1003476-1	231-900-3	Not classified as hazardous	100%

Refer to Section 16 for the full text of the GHS and H phrases and EU Classifications and R Phrases.





4. FIRST-AID MEASURES

Routes of Exposure	First Aid Instructions
Eye	Flush eyes with water, holding the eyelids apart. Get medical attention if irritation occurs and persists.
Skin	Wash skin with soap and water. Get medical attention if irritation develops. Launder contaminated clothing before re-use.
Inhalation	Remove victim to fresh air. If breathing is difficult, have qualified personnel administer oxygen, and obtain immediate medical attention.
Ingestion	If swallowed, get immediate medical attention. Product hardens in contact with water and will cause intestinal obstruction.
Most important symptoms of exposure	May cause eye and skin irritation. Wet material may generate heat that can cause skin burns.
Note to Physicians (Treatment, Testing, and Monitoring) Treat symptomatically	

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:	Use media appropriate for surrounding fire.
Fire Fighting Procedures	Use water to cool fire exposed containers.
Specific Hazards Arising from the Chemical:	This product is not combustible but thermal decomposition will generate toxic and irritating gases.
Precautions for Fire Fighters:	Do not enter fire area without proper protection. Firefighters should wear full emergency equipment and approved positive pressure self-containing breathing apparatus.

Recommended Protective Equipment for Fire Fighters

EYES/FACE	HANDS	RESPIRATORY	SKIN
			




6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, PPE and Emergency Procedures : Wear appropriate protection equipment (see Section 8). For dusty conditions wear suitable respiratory equipment.

Environmental Precautions : Do not allow spills to enter sewers or waterways.

Methods and Materials for Containment and Clean up: -Sweep or vacuum up, taking care not to generate airborne dust. Place into a suitable container for disposal. Clean spill area thoroughly.

Recommended Personal Protective Equipment for Containment and Cleanup

EYES/FACE	HANDS	RESPRIATORY	SKIN
			

7. HANDLING AND STORAGE

Precautions for Safe Handling: Avoid generating and breathing dust. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Keep container closed when not in use.

Conditions for Safe Storage: Store in a cool, dry, well ventilated area. Keep container tightly closed when not in use. Keep away from acids and other incompatible materials.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits:

Calcium Sulfate Hemihydrate: 5 mg/m³ TWA (respirable) 15 mg/m³ TWA (total dust) US OSHA PEL
 10 mg/m³ TWA (inhalable) ACGIH TLV
 1.5 mg/m³ (respirable), 4 mg/m³ TWA (inhalable) DFG MAK

Biological Exposure Limits: None

Appropriate Engineering Controls: Use adequate general or local exhaust ventilation to maintain exposures below the occupational exposure limits.

Individual Protection Measures (PPE)



Specific Eye/face Protection: Wear safety glasses when the possibility exists for eye contact.

Specific Skin Protection: Wear impervious gloves such as rubber if needed to avoid skin contact.

Specific Respiratory Protection: If the exposure limits are exceeded an approved particulate respirator appropriate for the form and concentration of the contaminants should be used. Selection and use of respiratory

equipment must be in accordance with all applicable regulations and good industrial hygiene practice.
Specific Thermal Hazards: None needed.

Recommended Personal Protective Equipment

EYES/FACE	HANDS	RESPIRATORY	SKIN
			

Environmental Exposure Controls: Use dust collection if needed to avoid release to the environment.

General Hygiene Considerations and Work Practices: Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling.

Protective Measures During Repair and Maintenance of Contaminated Equipment: Wear appropriate protective clothing and equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Cream	Explosive limits:	Not applicable
Odor:	None	Vapor pressure:	Not applicable
Odor threshold:	None	Vapor density:	Not applicable
pH:	Not applicable	Relative density:	2.6-3.2
Melting/freezing point:	Decomposes	Solubility:	Slight
Initial boiling point and range:	Not applicable	Partition coefficient: n-octanol/water:	Not available
Flash point:	Not combustible	Auto-ignition temperature:	Not combustible
Evaporation rate:	Not applicable	Decomposition temperature:	Not available
Flammability:	Not applicable	Viscosity:	Not applicable
Explosive Properties:	None	Oxidizing Properties:	None

10. STABILITY AND REACTIVITY

Reactivity: : None known

Chemical Stability: Hygroscopic– absorbs water or moisture from the air.

Possibility of Hazardous ReactionsNone known

Conditions to Avoid: Contact with water causes product to harden

Incompatible materials: Acids

Hazardous Decomposition ProductsThermal decomposition will generate calcium oxide and toxic sulfur dioxide.

11. TOXICOLOGICAL INFORMATION

Potential Health Effects

Eyes:May cause irritation and abrasive injury.

Skin: May cause skin irritation. Contact with water may generate heat and cause thermal burns.

Ingestion:Material may harden and cause gastrointestinal obstruction.

Inhalation:Dustmay cause irritation of the mucous membranes and respiratory tract.

Chronic Health Effects: None currently known.

Carcinogenicity: None of the components of this product are listed as carcinogens by OSHA, IARC, NTP, ACGIH or the EU Substances Directive.

Mutagenicity: No data is available.

Medical Conditions Aggravated by Exposure Pre-existing skin and respiratory disease.

Acute Toxicity Data:

Calcium Sulfate Hemihydrate: No toxicity dat available.

Reproductive Toxicity Data: No data available.

Specific Target Organ Toxicity (STOT):

Single Exposure: No data available.

Repeated ExposureNo data available

12. ECOLOGICAL INFORMATION

Toxicity : Calcium Sulfate Hemihydrate: No data available

Persistence and Degradability Biodegradation is not applicable to inorganic substances.

Bio-accumulative Potential The potential for bioaccumulate is expected to be low.

Mobility in Soil : No data available.

Other Adverse Effects None known

Results of PBT/vPvB Assessment: Not required

13. DISPOSAL CONSIDERATIONS

Regulations: Dispose in accordance with all national and local regulations.

Properties (Physical/Chemical) Affecting Disposal: None currently known.

Waste Treatment Recommendations: None known.

14. TRANSPORT INFORMATION

UN Identification Number: N/A

UN Proper Shipping Name: Not regulated for transport

Transport hazard class(es) N/A

Packing Group: N/A

Special precautions for user None

15. REGULATORY INFORMATION

U.S. Federal Regulations

Comprehensive Environmental Response and Liability Act of 1980 (CERCLA): This product is not subject to CERCLA reporting requirements. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

Toxic Substances Control Act (TSCA): All of the components are listed on the TSCA inventory (CAS number 7778-18-9)

Clean Water Act (CWA): This material is not regulated under the Clean Water Act

Clean Air Act (CAA): This material is not regulated under the Clean Air Act

Superfund Amendments and Reauthorization Act (SARA) Title III Information:

SARA Section 311/312 (40 CFR 370) Hazard Categories:

Immediate Hazard:	No	Pressure Hazard	No
Delayed Hazard:	No	Reactivity Hazard:	No
Fire Hazard:	No		

This product contains the following toxic chemical(s) subject to reporting requirements of SARA Section 313 (40 CFR 372)

Components	C.A.S. #	WT %
None		

State Regulations

California: This product contains the following chemicals(s) known to the State of California to cause cancer, birth defects or reproductive harm:

Components	C.A.S. #	WT %
None		

International Regulations

Canadian Environmental Protection Act: All of the components in this product are listed on the Domestic Substances List (DSL).

Canadian Workplace Hazardous Materials Information System (WHMIS): Not a controlled product.

European Inventory of Existing Chemicals (EINECS): All of the components in this product are listed on the EINECS inventory.

EU REACH: The substances in this product comply with the EU REACH regulation as applicable.

Australian Inventory of Chemical Substances: All of the components in this product are listed on the AICS for Australia.

China Inventory of Existing Chemicals and Chemical Substances: All of the components in this product are listed on the IECSC for China.

Japanese Existing and New Chemical Substances: All of the components in this product are listed on the Japanese ENCS list.

Korean Existing Chemicals List: All of the components in this product are listed on the KECL for Korea.

Philippine Inventory of Chemicals and Chemical Substances: All of the components in this product are listed on the PICCS.

16. OTHER INFORMATION

Full text of Classification abbreviations used in Section 2 and 3:

None

Supersedes: September 4, 1997

Revision Summary: Change in formulation and complete update. All sections changed.

Data Sources: US NLM ChemID Plus and HSDB, Substance SDS for components, IUCLID Dataset EU Chemical Bureau, ESIS, Country websites for occupational exposure limits.