

# SAFETY DATA SHEET

This SDS complies with REACH 1907/2006 and 2001/58/EC, GHS REVISION 5, OSHA 29CFR 1910.1200

## Section 1: Chemical Product and Company Identification

**MANUFACTURER'S NAME**

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**EMERGENCY TELEPHONE**

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DATE PREPARED:

May 25, 2015

REVISION DATE: June 8, 2015

PRODUCT NAME:

**DNAgard Saliva HT**

FORMULA:

Preparation/Mixture

PRODUCT USE:

Stabilization of DNA in Saliva

This product is to be used only for Research and Development (R&D) purposes.

## Section 2: Hazards Identification

**GHS Hazard Class**

Acute Toxicity Oral -- Category 4



Skin Irritation -- Category 2

Eye Irritation -- Category 2

Signal word:

Warning

Hazard Statement:

H302

Harmful if swallowed.

H315

Causes skin irritation.

H319

Causes serious eye irritation.

Precautionary Statements:

Prevention

P264

Wash hands thoroughly after handling.

P270

Do not eat, drink, or smoke when using this product.

P280

Wear protective gloves/protective clothing/ eye protection/face protection.

Response

P301 + P312

If SWALLOWED: Immediately call a Poison Control center/doctor/physician if you feel unwell.

P330

Rinse mouth.

P302 + P352

IF ON SKIN: wash with plenty of soap and water.

P332 + P313

If skin irritation occurs, get medical advice/attention.

P362 + P364

Take off contaminated clothing and wash before reuse.

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

Storage

P337 + P313

If eye irritation persists: Get medical advice/attention.

Disposal

P501

Dispose of waste materials and container by following the waste disposal requirements of your country, state, or local authorities.

Hazards not otherwise classified (HNOC) or not covered by GHS - None

HAZARD CLASSIFICATION:

Not classified as hazardous based on IATA, IMDG, and DOT.

FIRE AND EXPLOSION:

Not considered flammable or combustible, but this product will burn if involved in a fire. Product emits toxic fumes when burned.

POTENTIAL HEALTH EFFECTS:

<0 % of mixture consists of ingredients of unknown acute toxicity

APPEARANCE:

Colorless to pale yellow liquid

NFPA Rating:

Component	Health (Blue)	Flammability (Red)	Reactivity (Yellow)	Special (White)
DNAgard Saliva HT	2	0	0	----

## Section 3: Composition, Information on Ingredients

Biomatrica is using the product's SDS as a means of notification to the customer to comply with the TSCA regulations, R&D Exemption 40CFR 720.36 requirements:

1. This product is to be used only for Research and Development (R&D) purposes.
2. A technically qualified individual must supervise the use of this product.
3. Health and Toxicity information is provided in this SDS.

PRODUCT COMPOSITION	APPROX %	CAS NO.	EINECS/ELINCS	CANADA DSL
Guanidine Hydrochloride	20-35%	50-01-1	200-002-3	Y

## Section 4: First Aid Measures

### Description of First Aid Measures

Inhalation	Remove to fresh air. If not breathing, provide CPR (cardio pulmonary resuscitation). Get immediate medical attention.
Skin Contact	Immediately wash skin with plenty of soap and water for at least 15 minutes. Remove contaminated clothing.
Eye Contact	Immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention.
Ingestion	If swallowed do not induce vomiting, give large quantities of water to drink. Never give anything to an unconscious person. Get immediate medical attention.

### Most important symptoms and effects, both acute and delayed

Symptoms/Injuries after Inhalation	May cause respiratory tract irritation.
Symptoms/Injuries after Skin Contact	May cause skin irritation. Symptoms may include redness, drying, defatting, and cracking of the skin.
Symptoms/Injuries after Eye Contact	May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.
Symptoms/Injuries after Ingestion	May be harmful if swallowed. May cause stomach distress, nausea, or vomiting.

### Indication of any immediate medical attention and special treatment needed

Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately.

## Section 5: Fire-fighting Measures

Suitable extinguishing media	None
Special hazards arising from the substance or mixture	No data available.
Protective actions fire-fighters	Wear standard protective equipment and self-contained breathing apparatus for firefighting if necessary.
Further information	Use extinguishing agent suitable for the type of surrounding fire.

## Section 6: Accidental Release Measures

### Personal precautions, protective equipment, and emergency procedures

Wear proper personal protective equipment. Avoid breathing vapors or mist.

### Environmental precautions

None

Prevent further leakage or spillage if safe to do so. Prevent spills or contaminated rinse water from entering sewers or watercourses.

### Methods and materials for containment and cleaning up

In case of small spills, absorb with inert materials. Place in a chemical waste container.

### Reference to other Sections

For personal protection reference section 8. For disposal reference section 13.

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## Section 7: Handling and Storage

### Precautions for safe handling

- Take precautionary measures against static discharge.
- Use only with adequate ventilation.
- Do not inhale vapors.
- Wear proper protective equipment when handling this material.
- Avoid contact with skin, eyes, or clothing.
- Appropriate container should be used for disposal.
- For precautions see section 2.

### Conditions for safe storage, including any incompatibilities

- Store upright in a cool, dry place.
- Keep container closed when not in use.
- Utilize chemical segregation.
- Follow all applicable local regulations for handling and storage.

### Specific uses

This product is intended for use in Stabilization of DNA in Saliva.

## Section 8: Exposure Controls/Personal Protection

### Control Parameters

PRODUCT COMPOSITION	ACGIH TLV	OSHA PEL	NIOSH REL
Not applicable	-----	-----	-----

### Exposure controls

#### VENTILATION:

Always provide good general, mechanical room ventilation where this chemical/material is used.

#### SPECIAL VENTILATION CONTROLS:

Use this material inside totally enclosed equipment, or use it with local exhaust ventilation at points where vapors can be released into the workspace air.

#### RESPIRATORY PROTECTION:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or the CEN European Standards (EU). Use a NIOSH/MSHA or European Standard (EN) approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

#### PROTECTIVE GLOVES:

Neoprene, butyl, or nitrile rubber gloves are recommended.

#### EYE PROTECTION:

Recommend eye protection using safety glasses or goggles.

#### SKIN PROTECTION:

Suitable protective clothing to prevent skin contact

#### WORK/HYGIENE PRACTICES:

Avoid breathing vapor. Avoid contact with eyes. Wash hands after handling.

#### OTHER EQUIPMENT:

Make safety shower, eyewash stations, and hand washing equipment available in the work area.

## Section 9: Physical and Chemical Properties

	PRODUCT CRITERIA
APPEARANCE - COLOR:	Colorless to Pale Yellow Liquid
PHYSICAL STATE:	Liquid
ODOR:	Odorless
ODOR THRESHOLD	No data available
PH	7.8 to 8.2
MELTING POINT/FREEZING POINT:	No data available
INITIAL BOILING POINT AND BOILING RANGE:	No data available
FLASH POINT:	No data available
EVAPORATION RATE:	No data available
FLAMMABILITY (Solid, gas)	No data available
UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS	Not Measured
VAPOR PRESSURE	No data available
VAPOR DENSITY (AIR = 1)	No data available
RELATIVE DENSITY (@25°C):	1.072 to 1.208 at 20°C
SOLUBILITY (IES)	Fully soluble in water
OXIDIZING PROPERTIES	No data available

PARTITION COEFFICIENT: n-octanol/water	No data available
AUTO IGNITION TEMPERATURE	No data available
DECOMPOSITION TEMPERATURE	No data available
VISCOSITY	No data available

## Section 10: Stability and Reactivity

Reactivity:	Not reactive.
Chemical Stability:	Stable at recommended storage conditions.
Possibility of Hazardous Reactions:	Will not occur.
Conditions to Avoid:	None
Incompatibility (Materials to Avoid):	None
Hazardous Decomposition Products:	None

## Section 11: Toxicological Information

**There is no toxicological information available for the product.**

GHS Required Criteria	Toxicity Criteria	Toxicity Information	Comments	Chemical Constituent
Acute Toxicity	LD50 (Oral/Rat):	475 mg/kg		Guanidine Hydrochloride
	LD50 (Dermal/Rabbit):	>2,000 mg/kg		Guanidine Hydrochloride
	LC50 (Inhalation/Rat):	3.2 mg/L 4 h		Guanidine Hydrochloride
Skin Corrosion/Irritation		Data not available		
Serious Eye Damage / Eye Irritation		Data not available		
Respiratory or Skin Sensitization		Data not available		
Germ Cell Mutagenicity		Data not available		
Carcinogenicity	NTP	Not listed		
	IARC	Not listed		
	OSHA	Not listed		
Reproductive Toxicity		Data not available		
STOT -- Single Exposure	Central nervous system (CNS)			Guanidine Hydrochloride
STOT -- Repeated Exposure		Data not available		
Aspiration Hazard		Data not available		

STOT = Specific Target Organ Systemic Toxicity

## Section 12: Ecological Information

Toxicity:	1,758 mg/L LC50 48 h	Guanidine Hydrochloride
	88.7 mg/L EC50 <i>Pseudomonas putida</i> 18 h	Guanidine Hydrochloride
Persistence and degradability:	No information is available.	
Bioaccumulative potential	No information is available.	
Mobility in soil:	No information is available.	
PBT and vPvB assessment:	PBT/vPvB assessment not available as chemical assessment not required/not conducted	
Other adverse effects:	No information is available.	

## Section 13: Disposal Considerations

**Waste from residues/unused products:** Follow the waste disposal requirements of your country, state, or local authorities.

**Contaminated packaging:** Contaminated packaging material should be disposed of as stated above for residues and unused product.

**Rinsate:** Do not dispose of rinse water containing product in a sanitary sewer system or stormwater drainage system.

## Section 14: Transport Information

<b><u>DOT TRANSPORT:</u></b>		Not Regulated
<b><u>ADR = International Carriage of Dangerous Goods by Road</u></b>		Not Regulated
<b><u>RAIL TRANSPORT:</u></b>		Not Regulated
<b><u>SEA TRANSPORT:</u></b>	IMDG	Not Regulated
<b><u>AIR TRANSPORT:</u></b>	IATA/ICAO	Not Regulated

## Section 15: Regulatory Information

### TOXIC SUBSTANCES CONTROL ACT (TSCA) STATUS:

This product is in compliance with rules, regulations, and/or orders of TSCA and should be used in accordance with the Research and Development (R&D) exemption regulations of TSCA.

### SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA) TITLE III SECTION 313 SUPPLIER NOTIFICATION:

This regulation requires submission of annual reports of toxic chemical(s) that appear in section 313 of the Emergency Planning and Community Right To Know Act of 1986 and 40 CFR 372. This information must be included in all SDS's that are copied and distributed for the material.

The Section 313 toxic chemicals contained in this product are: None

### CALIFORNIA PROPOSITION 65:

This regulation requires a warning for California Proposition 65 chemical(s) under the statute.  
The California proposition 65 chemical(s) contained in this product are: None

### STATE RIGHT-TO-KNOW TOXIC SUBSTANCE OR HAZARDOUS SUBSTANCE LIST:

Florida Toxic Substance(s):	Not listed
Massachusetts's hazardous substance(s):	Not listed
Pennsylvania hazardous substance code(s):	Guanidine Hydrochloride, CAS 50-01-1
New Jersey	Guanidine Hydrochloride, CAS 50-01-1
Illinois	Not listed
Michigan	Not listed
Minnesota	Not listed

### CANADA:

This SDS contains all of the information required by the Controlled Products Regulations (CPR).

### WHMIS-INFORMATION:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR), SOR/88-66, Current to February 20, 2012. The classes of controlled products listed in the CPR, Section 32, Part IV, have been reviewed and based on Professional Judgment this product has been determined to not be WHMIS controlled.

### EUROPEAN UNION:

This product has been reviewed for compliance with the following European Community Directives: REACH 1907/2006; Regulation (EC) No 1272/2008 on classification, labeling, and packaging (CLP) of substances and mixtures.

## Section 16: Other Information

Initial issue date: May 25, 2015  
Final revision date: June 8, 2015  
Revision Number: 0  
Revision explanation: Initial version  
Information Sources: RTECS, ECHA, REACH, OSHA 29CFR 1910.1200

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