

Safety Data Sheet

Section 1: Product & Company Identification

Product Name:	HigherPurity™ Stool DNA Isolation Kit
Product #:	S-3361
Synonyms:	-
Supplier:	AG Scientific Holdings, LLC 9950 Scripps Lake Drive, Suite 104 San Diego, CA 92131 Tele# + 858-452-9925
Emergency Tele#:	ChemTel, Tele# in USA 1-800-255-3924, International 1-813-248-0585

Section 2: Composition / Information on Ingredients

Component	CAS #	Weight %	Classification according to (67/548/CEE) or (199/45/CE)
LS1 Buffer (Sodium Dodecyl Sufate)	151-21-3	1 - 5	Skin irrit. (Cat. 2) - H315 Eye irrit. (Cat. 2) - H319
Buffer A (Acetic Acid)	64-19-7	10 - 20	Skin irrit. (Cat. 2) - H315 Eye irrit. (Cat. 2) - H319
Buffer B (Guanidine-hydrochloride)	50-01-1	10 - 30	Acute Tox. (Cat. 4) - H302 Skin irrit. (Cat. 2) - H315 Eye irrit. (Cat. 2) - H319
WB1 Buffer	Contains no hazardous substance in concentrations to be declared.		
EB Buffer	Contains no hazardous substance in concentrations to be declared.		
Proteinase K	39450-01-6	1 - 2.5	Resp. sens. (Cat. 1) - H334 Skin irrit. (Cat. 2) - H315 Skin sens. (Cat. 1) - H317 Eye irrit. (Cat. 2) - H319 STOT SE (Cat. 3) - H335

Section 3: Hazards Identification

Symbols	
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HMIS Rating

Health Hazard	Chronic Health Hazard	Flammability	Physical Hazard

NFPA Rating

Health Hazard	Fire Hazard	Reactivity Hazard

Section 4: First Aid Measures

General Overview:	The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.
Inhalation:	Remove affected person immediately to fresh air. Get medical attention.
Skin:	Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues. Get medical attention if any discomfort continues.
Eyes:	Flush immediately with plenty of water. Remove contact lenses and hold eyelids wide apart. Continue rinsing for at least 15 minutes. Get medical attention immediately. Continue rinsing.
Ingestion:	Remove affected person to fresh air and keep warm and at rest in a position comfortable for comfortable breathing position. Rinse mouth with water. Provide plenty of water to drink. Get medical attention if any discomfort continues.
	See section 11 for more detailed information on health effects & symptoms.

SECTION 5: Fire Fighting Measures

Flammability of the product:	No data available
Extinguishing Media:	No restriction.
Hazardous thermal (de)composition products:	No data available
Special Fire Fighting Procedures:	Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit...) in accordance with Directive 89/654/EC.
Flash Point:	No data available

Section 6: Accidental Release Measures





Personal Precautions:	Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area,
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	observe emergency procedures, consult an expert. For personal protection see section 8.
Environmental Precautions:	Do not let product enter drains.
Methods for Clean-up:	Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions. Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

SECTION 7: Handling & Storage

Storage:	Keep container tightly closed. Keep only in the original container. Store at room temperature.
Handling:	Avoid spillage. Avoid contact with eyes and skin. Avoid inhalation of dust. Provide adequate ventilation.

SECTION 8: Exposure controls / Personal Protection

Respiratory Protection:	 <p>If ventilation is insufficient, suitable respiratory protection should be worn.</p>
Skin and Body:	  <p>Wear rubber apron. Wear rubber footwear. Protective gloves.</p>
Eyes:	 <p>Safety glasses.</p>

Ventilation/Engineering Measures:	Ensure adequate ventilation.
Hygiene:	Follow standard good industrial hygiene practices.
Other:	Contains no substances with occupational exposure limit values.

SECTION 9: Physical and Chemical Properties

Appearance & Odor:	LS1 Buffer: Colorless liquid Buffer A: Colorless liquid Buffer B: Colorless liquid WB1 Buffer: Colorless liquid Elution Buffer: Colorless liquid Proteinase K: Colorless liquid
Formula	N/A
Molecular Wt.	N/A
pH	LS1 Buffer: 7.6 Buffer A: 4.5 Buffer B: 4.5 WB1 Buffer: 7.5 Elution Buffer: 8.5 Proteinase K: 7.5
Melting Pt.	N/A
Boiling Pt.	N/A
Density:	N/A
Vapor Pressure:	N/A
Evaporation Rate:	N/A
Vapor Density:	N/A
Solubility:	N/A
Flash Point:	N/A
Autoignition Temp:	N/A

SECTION 10: Stability and Reactivity

Stability:	Stable at normal room temperature and when used as recommended.
Hazardous decomposition products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Materials to Avoid:	No data available
Conditions to avoid:	No data available

SECTION 11: Toxicological Information

RTECS#:	N/A
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ACUTE Toxicity:	<p>Guanidine-hydrochloride Oral toxicity: LD50 rat 475 mg/kg Toxicity (inhalation): LD50 rat 5.3 mg/l (4 h) Toxicity (others): LD50 intraperitoneal mouse 500 mg/kg</p> <p>Sodium dodecylsulfate Oral toxicity: LD50 rat 1.288 mg/kg</p> <p>Acetic acid Oral toxicity: LD50 rat 3310 mg/kg Toxicity (inhalation): LD50 rat 4960 mg/l Toxicity (others): LD50 intraperitoneal mouse 3530 mg/kg</p> <p>Primary irritant effect: - On the skin: Irritant to skin and mucous membranes. - On the eye: Irritating effect. - Sensitization: No sensitizing effects known.</p>
CHRONIC Toxicity:	N/A
Chronic Exposure: Carcinogen: Mutagen: Teratogen: Reproductive:	<p>IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC.</p> <p>AGGIH: No component of this product present at levels greater than or equal to 0.1% is identified as probable, potential human carcinogen by ACGIH.</p> <p>NTP: No component of this product present at levels greater than or equal to 0.1% is identified as known or anticipated human carcinogen by NTP.</p> <p>OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as known or potential human carcinogen by OSHA.</p> <p>EPA: No classification on carcinogenic data is available from EPA</p>

SECTION 12: Ecological Information

Ecotoxicity:	It is not considered toxic to fish.
Mobility:	This product is soluble in water.
Persistence and degradability:	No data available
Bioaccumulative potential:	No data available
Other adverse effects:	No data available
Corrosivity Characteristic:	No data available



General Notes:	The components of the product are not classified as hazardous to the environment. Large or frequent spills may have harmful effects on the environment.
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SECTION 13: Disposal Considerations

Residue Waste or Unused product:	Waste should be treated as hazardous waste. Dispose of waste to an authorized landfill in accordance with the requirements of the local Waste Disposal Authority.
Contaminated Packaging:	Dispose of waste to an authorized landfill in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: Transportation Information

UN ID#:	N/A
ADR / RID (LAND):	Not regulated
DOT regulations:	Not regulated
IMDG/IMO (SEA):	Not regulated
IATA/DGR (AIR):	Not regulated
Special Provisions:	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

SECTION 15: Regulatory Information

Health Phrases:	H302 Harmful if swallowed. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irrit. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation. H412 Harmful to aquatic life with long lasting effects.
Risk Phrases:	P264 Wash skin thoroughly after handling. P280 Wear protective gloves/protective clothing/eye protection/face protection.
Safety Phrases:	P302 + P352 IF ON SKIN: Wash with plenty of water. P304 + P340 + P312 IN CASE OF INHALATION: Transport the person outdoors and keep them in a position that facilitates breathing. Call a POISON CENTER/doctor if the person is unwell. P305+P351+P338 IN CASE OF EYE CONTACT: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue to continue rinsing. P332 + P313 If skin irritation occurs: Get medical advice/attention. P337 + P313 If eye irritation persists: Get medical advice/attention. P362 + P364 Take off contaminated clothing and wash.
EU Regulations:	



US Regulations:	TSCA: Not listed California Proposition 65: No products were found
U.S. Federal Regulations:	<p>SARA 302/304 emergency planning and notification: No products were found.</p> <p>SARA 311/312 MSDS distribution-chemical inventory-hazard identification: No products were found.</p> <p>SARA 313 toxic chemicals notification and release reporting: No products were found.</p> <p>Clean Water Act (CWA) 307: No products were found. Clean Water Act (CWA) 311: No products were found. Clean Air Act (CAA) 112 accidental release prevention: No products were found. Clean Air Act (CAA) 112 regulated flammable substances: No products were found. Clean Air Act (CAA) 112 regulated toxic substances: No products were found.</p> <p>OSHA: Acute oral toxicity (Cat. 4); Skin irritant (Cat. 2); Skin sensitization (Cat. 1); Eye irritation (Cat. 2); Resp. sensitization (Cat. 1); Specific target organ toxicity - single exposure (Cat. 3)</p>
WHMIS (Canada):	N/A

SECTION 16: Other Information

LIABILITY STATEMENT: *The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. AG Scientific shall not be held liable for any damages resulting from handling or from contact with the above product. AG Scientific products are for research purposes only. Not for human use or consumption.*