AutoGenomics

SAFETY DATA SHEET

Follows OSHA GHS/ EU 2015/830, CLP 1272/2008

Section 1: IDENTIFICATION

Product identifier: INFINITI® Taq Polymerase

Other Name: **Taq DNA Polymerase 1**, ***Taq DNA Polymerase 2**, Taq DNA Polymerase 3, Taq DNA Polymerase 4

Catalog Number: **12-0460-00, *12-0480-00, 12-0560-00, 12-0740-00
***Contains Sodium azide**
**Contains IGEPAL

Recommended Use: For use in Laboratories. Refer to Product Insert or Application Notes.

Manufacturer:

AutoGenomics, Inc.
1600 Faraday Ave.
Carlsbad, CA 92008

Telephone No: **1-760-477-2248**
Toll Free: 1-866-782-8639
FAX: 1-760-477-2252
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Emergency Telephone: 1-866-782-8639

Section 2: HEALTH HAZARD INFORMATION

OSHA Regulatory Status: This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

GHS- Classification

Signal Word: Not hazardous

Health hazards: Not hazardous

Physical hazards: Not hazardous

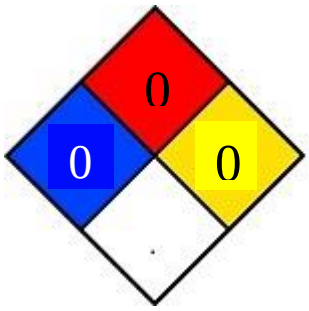
Principle Routes of Exposure

Eyes	May cause eye irritation with susceptible persons.
Skin	May cause skin irritation in susceptible persons.
Inhalation	May be harmful by inhalation.
Ingestion	May be harmful if swallowed.

Potential Health Effects: None
Specific Effects: None

Other Hazards: None known

NPFA



HMIS

Health	0
Flammability	0
Reactivity	0

Section 3: CONPOSITION/ INFORMATION ON INGREDIENTS

Substances/ Mixtures: Mixture

Ingredient	CAS Number	% Wt
Glycerol	56-81-5	10 - 70
Sodium Azide	26628-22-8	< 0.1
IGEPAL CA-630, Nuclease free	9036-19-5	0 - 1

Sodium azide may react with lead and copper plumbing to form highly explosive metal azides. We recommend handling all chemicals with caution.

Section 4: FIRST AID MEASURES

Description of first aid measures

Eyes:
- Immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention; if symptoms persist.

Skin:
- Immediately flush skin with plenty of water for at least 15 minutes.
- If irritation develops, seek medical attention.

Inhalation:
- Move to fresh air. If not breathing, administer artificial respiration; immediately get medical attention

Ingestion:
- Do **NOT** induce vomiting unless directed to do so by medical personnel
- Never give fluids or induce vomiting if a person is unconscious or convulsing

Section 5: FIRE and EXPLOSTION INFORMATION

Extinguishing media:
Water spray, dry chemical or carbon dioxide, or foam

Special hazards arising from the substance or mixture:
Non-flammable. No information available.

Advice for firefighters:

Use personal protective equipment for firefighting if necessary. Dilute with copious amounts of water. May be explosive if mixed with copper or lead plumbing.

Special Protective Equipment or Precautions for firefighters:

Wear self-contained breathing apparatus and protective suit.

Section 6: ACCIDENTAL RELEASE MEASURES

Use of Personal Precaution, Protective Equipment and Emergency Procedures

Wear appropriate protective clothing or equipment.

Environmental precautions

No relevant information available.

Methods and Materials Used for Containment and Cleanup procedures

Soak up with inert absorbent material. Place in a waste disposal container in compliance with national/state regulations. Do not pour down the sink. Sodium azide can be explosive when mixed with a copper or lead plumbing.

Section 7: HANDLING AND STORAGE

Precaution for safe handling

Always wear recommended Personal Protective Equipment. No special precautions are necessary if used correctly. Follow application notes and package insert for recommendation of handling product for usage.

Recommendations on the condition for safe storage, including any incompatibilities

Store in the original container according to the labeling.

Section 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

Exposure limits

Chemical name	OSHA PEL	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Sodium azide	none	none	none
Glycerol	15 mg/m^3 5 mg/m^3	10 mg/m^3	none

Environmental exposure Controls: Prevent product with Sodium azide from entering drains.

Engineering Controls: General protective and hygienic measures.

The usual precautionary measures for handling chemicals should be followed.

Personal Protective Equipment

Wear gloves, safety glasses and protective clothing to minimize skin and eye contact.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear colorless liquid
Flammability or Explosive Limits:	May be explosive when exposed to copper or lead
Odor	No odor
Vapor pressure	Not determined
Odor threshold	Not determined
Vapor density	Not determined
pH	Not determined
Relative density	Not determined
Melting point/ freezing point	Not determined
Solubility	Not determined
Initial boiling point and boiling range	Not determined
Flash point	Not determined
Evaporation rate	Not determined
Flammability (solid, gas)	Not flammable
Partition coefficient: n-octanol/water	Not determined
Auto-ignition temperature	Product is not self-igniting
Decomposition temperature	Not determined
Viscosity	Not determined

Section 10: STABILITY AND REACTIVITY

Reactivity	Sodium azide may react to copper or lead plumbing to form highly explosive metal azides.
Chemical Stability	The product is stable under normal conditions.
Possibility of Hazardous reactions	Hazardous reactions will not occur under normal conditions and use.
Conditions to avoid	Oxidizing agents and excessive heat.
Incompatible material	Not determined
Hazardous decomposition products	Hazardous decomposition or by products will not occur under normal conditions.

Section 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity:

Chemical name	LD50 (Oral, rat/mouse)	LD50 (dermal, rat/rabbit)	LD50 (inhalation, rat/mouse)
Sodium azide	27 mg/kg (rat)	no data available	no data available
Glycerol	12600 mg/kg (oral)	no data available	no data available
IGEPAL	14971 mg/kg (rat)	44663 mg/kg (rat)	no data available

Information on the likely routes of exposure: Dermal contact, eye contact and ingestion.

Potential Health Effects:

Eyes:	May cause eye irritation with susceptible persons
Skin	May cause skin irritation with susceptible persons
Inhalation	May be harmful by inhalation
Ingestion	May be harmful if swallowed

Carcinogenicity	There is no data available
Mutagenic effects	There is no data available
Reproductive toxicity:	There is no data available
Specific target organ toxicity:	There is no data available

Target Organ Effects Respiratory system, Eyes, Kidney, Skin

Endocrine Disruptor Information

Chemical Name	EU - Endocrine Disrupters Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Japan - Endocrine Disruptor Information
IGEPAL CA-630, Nuclease free	Group III Chemical		

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

Chemical name	Toxicity to algae	Toxicity to fish	Toxicity for water flea	Microtox Data	log Pow
Glycerol 56-81-5		LC50 51-57 mL/> Oncorhynchus mykiss 96 h	Daphnia magna EC50 >500 mg/L 24 h		-1.76

Persistence and degradability	Soluble in water, persistence is unlikely
Bioaccumulative potential	No data available
Mobility in soil	Likely to be mobile in the environment due to its water solubility.
Results of PBT and vPvB assessment	No data available
Other adverse effects	None known.

Chemicals as potential carcinogens listed in

NTP Report,	No data available
IARC	No data available
OSHA	No data available

Section 13: DISPOSAL CONSIDERATIONS

Waste Disposal Method

- Follow federal, state and local government requirements for disposal.
- US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.
- Do not dispose into copper or lead plumbing.

Section 14: TRANSPORTATION INFORMATION

UN number and proper shipping name	none
TDG Class:	Not regulated
D.O.T.	Not regulated
IATA	Not regulated

Section 15: REGULATORY INFORMATION

U.S. Federal Regulations:

SARA 313:

This product contains the following toxic chemicals(s) subject to the notification requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986. This law requires certain manufacturers to report on annual emissions of specified chemicals and chemical categories. Please note that if you repackage, or otherwise redistribute this product to industrial customers, a notice similar to this one should be sent to those customers:

Chemical Name	CAS No.	Weight %	SARA 313 Threshold Values
Sodium azide	26628-22-8	<0.1%	1.0

TSCA (Toxic Substances Control Act): Sodium azide and Glycerol is listed.

Chemical	TSCA
Sodium azide 26628-22-8	Listed
Glycerol 56-81-5	Listed
IGEPAL CA-630, Nuclease free	Listed 03/29/1996

Clean Water Act (40 CFR 122.21 and 122.42): Not applicable

Clean Air Act (see 40 CFR 61),,Section 112: This product does not contain Hazardous Air Pollutants

U.S. State Regulations

Chemical Name	Massachusetts - RTK	New Jersey - RTK	Pennsylvania - RTK	Illinois - RTK	Rhode Island - RTK
Sodium azide	Listed	Listed	Listed		Listed
Glycerol	Listed	Listed	Listed		Listed
IGEPAL CA-630					

This product does not contain any chemicals listed under California Proposition 65

International Regulations

Mexico Minimum Grade 0 (Exposure Limits – Glycerol: TWA 10 mg/m^3)

WHMIS Classification:
Not a controlled substance.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

Section 16: OTHER INFORMATION

This material is not intended for food, household, agricultural or cosmetic use. The information in this SDS is correct to the best of our knowledge. Users should make independent decisions regarding completeness of the information based on all sources available. AutoGenomics shall not be held liable for reliance on the information provided in this SDS and/or any damage resulting from the handling or contact with the above named products.

Key Legend Information:
N/A – Not Applicable ND – Not Determined

Prepared by Regulatory Affairs, AutoGenomics, Inc.

Rev	**Change**	CO #	Effective Date
A	Initial Doc with GHS and EU standards	3952	August 2017

End of SDS