



AutoGenomics

SAFETY DATA SHEET

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

Section 1: IDENTIFICATION

Product identifier: INFINITI® Reagents

Other Name: Post PCR Reagent, EXO, RNA Reagent, PCR Clean Up Mix 1

Catalog Number: 12-0520-00, 12-0530-00, 12-0540-00, 12-0790-00

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

Manufacturer: **AutoGenomics, Inc.**
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Carlsbad, CA 92008

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Section 2: HEALTH HAZARD INFORMATION

OSHA/HCS Status: This SDS should be retained and available for employees and other users of this product.

GHS- Classification



Signal Word: WARNING

Health hazards:

Skin: May causes mild irritation	Category 3
Eye: Irritation	Category 2B
Oral: Maybe harmful if swallowed	Category 5
Inhalation: Maybe harmful	Category 5

Hazard Statement:

- H303: May be harmful if swallowed
- H316: Causes mild skin irritation
- H320: Causes eye irritation
- H333: May be harmful if inhaled



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Precautionary Statement:

P264 Wash hands thoroughly after handling

P305+ P351+ P338 - **Eyes:** May cause irritation in susceptible persons. Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do, continue rinsing.

P337 + P313 - If eye irritation persists: Get medical advice/attention

Principle Routes of Exposure

Potential Health Effects:

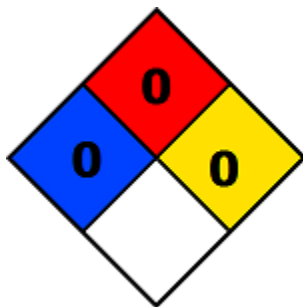
- Eyes: May cause eye irritation in susceptible persons
- Skin contact: May cause irritation to skin in susceptible persons
- Inhalation: May be harmful by inhalation
- Ingestion: May be harmful if swallowed

Specific Effects:

- Carcinogenic Effects: None
- Mutagenic effects: None
- Reproductive toxicity: None
- Sensitization: None
- Target Organ effects: No known effects under normal use conditions.

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	~50%

. 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. Use soap and water.
- 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
- If large quantities of this material are swallowed, call 911 or a physician immediately

Section 5: FIRE and EXPLOSION INFORMATION

Extinguishing media:

Use dry chemical or carbon dioxide, or foam

Special hazards arising from the substance or mixture:

Non-flammable. No information available.

Advice for firefighters:

Wear self-contained breathing apparatus 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:

No special equipment necessary.

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

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

Control Parameters

Exposure Guidelines

This product as supplied does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Ingredient	ACGIH TLV	OSHA PEL	NIOSH IDLH
Glycerol (56-81-5)	-	TWA: 15 mg/m ³ mist, total particulate TWA: 5 mg/m ³ mist, respirable fraction (vacated) TWA: 10 mg/m ³ mist, total particulate (vacated) TWA: 5 mg/m ³ mist, respirable fraction	-

Other information

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

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:	
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	No data available.
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. Thermal decomposition can lead to release of irritating and toxic gases and vapors. Carbon monoxide, Carbon dioxide (CO ₂)

Section 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects: No information available.

Information on the likely routes of exposure:

Inhalation

Avoid breathing vapors or mists. May cause irritation of respiratory tract.

Eye contact

Redness. May cause slight irritation.

Skin contact

Prolonged contact may cause redness and irritation. Repeated exposure may cause skin dryness or cracking.

Ingestion

May cause drowsiness or dizziness. Ingestion causes burns of the upper digestive and respiratory tracts. Symptoms include: burning sensation, coughing, wheezing, shortness of breath, headache, nausea, and vomiting.

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: Eyes, kidneys, respiratory system, skin

Neurological effects

No information available

Other adverse effects

No information available

Aspiration hazard

No information available

Numerical measures of toxicity - Product information

The following values are calculated based on chapter 3.1 of the GHS document.

ATEmix (oral) 21978 mg/kg

ATEmix (dermal) 40650 mg/kg

ATEmix (inhalation-vapor) 1185.9 mg/l



Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

No information available

0.3 % of the mixture consists of component(s) of unknown hazards to the aquatic environment.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Magnesium Chloride 7786-30-3	2200: 72 h Desmodesmus subspicatus mg/L EC50	4210: 96 h Gambusia affinis mg/L LC50 static 1970 - 3880: 96 h Pimephales promelas mg/L LC50 static	None known	140: 48 h Daphnia magna mg/L EC50 Static 1400: 24 h Daphnia magna mg/L EC50

Persistence and degradability

No information available

Bioaccumulative potential

No information available

Mobility in soil

No information available

Results of PBT and vPvB assessment

No data available

Other adverse effects

No information 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 261.3.
- Keep out of drains, sewers, ditches and waterways.

Section 14: TRANSPORTATION INFORMATION

UN number and proper shipping name

none

TDG Class:

Not a dangerous good for transport regulations

D.O.T.

Not a dangerous good for transport regulations

IATA

Not a dangerous good for transport regulations

Section 15: REGULATORY INFORMATION

U.S. Federal Regulations:

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

TSCA (Toxic Substances Control Act):

Complies.

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.



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U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

International Regulations

WHMIS Classification:

Non controlled substance.

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