SAFETY DATA SHEET

1. PRODUCT and COMPANY IDENTIFICATION

Products:

See Below

***Unit Size*:** See Below

Each vial of DNA stabilization solution contains

Ammonium chloride 10-25%
Cetrimoniumbromid <2.5%
2-Amino-2-(hydroxymethyl)-propan-1,3-diol <2.5%

Manufacturer/Supplier
AutoGenomics, Inc.
2980 Scott Street
Vista, CA 92081

Telephone No: (760) 477-2248
Toll Free: 1-866-782-8639
www.autogenomics.com

This SDS applies to the following

Product Name	Catalog Number	Packaged
DNA Stabilization Solution (100 each)	12-0500-00	1 pack
PDXL Sample Collection Kit A (2 each)	12-0590-00	1 pack
PDXL Sample Collection Kit B (2 each)	12-0600-00	1 pack
Buccal Swab Sample Collection Kit (2 each)	12-0610-00	1 pack
DNA Stabilization Solution (100 each)	12-0620-00	20 packs/ case

2. HEALTH HAZARD INFORMATION

Emergency Overview:

- Irritant to eyes and skin
- Should not be taken internally, inhaled or allow contact with skin
- Do not induce vomiting. Seek medical treatment if swallowed.

Signal word: Danger Causes serious eye irritation

Hazard Symbol

Hazard Pictogram

Acute Health Effects:

- Skin contact: May cause irritation to skin
  - May cause skin allergies. Wash with water and seek medical treatment.
- Eyes: May cause irritation, redness, watering and itching. Flush eyes with large amounts of water. If irritation persists, contact physician.
- Inhalation: Leave contaminated area and provide fresh air.
- Ingestion: May be harmful if ingested.

Chronic Health Effects

- Carcinogenic Effects: None of the ingredients are known to cause cancer in animals or humans
- Repeated or prolonged exposure is not known to aggravate medical conditions

3. COMPOSITION/ INFORMATION ON INGREDIENTS

Present in some or all of the products

Ingredient	CAS Number	m%
Ammonium chloride	12125-02-9	10-25%
Cetyltrimethylammonium bromide	57-09-0	<2.5 %
2-Amino-2-(hydroxymethyl)-1,3-propanediol	77-86-1	<2.5 %

4. FIRST AID MEASURES

Eyes:

- Immediately flush eyes with plenty of water for at least 15 minutes; seek medical attention; remove any contact lenses

Skin:

- Immediately flush skin with plenty of water for at least 15 minutes; remove any contaminated clothing and shoes and wash before reusing; cover the irritated skin with an emollient
- If irritation develops, get medical attention

Inhalation:

- Move to fresh air. If not breathing, administer artificial respiration; if breathing is difficult, give oxygen; 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
    - Loosen tight clothing such as a collar or tie, belt or waistband

5. FIRE and EXPLOSTION INFORMATION

Auto-Ignition Temperature	N/A
Flammability of the Product	Non-Flammable
Flash Points	N/A
Flammable Limits	N/A
Products of Combustion	none
Explosion Hazards	none
Hazards from substance or mixture	Fire: May form: nitrogenoxides (NOx), Hydrogen bromide (HBr), Hydrogenchloride (HCl), organic crackproducts and carbon oxides.
Fire Fighting Media and Instructions	Use water spray jet, Foam, dry chemicals, CO2
Protective Clothing for Fire Fighting	Wear positive pressure self-contained breathing apparatus. Wear full protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Cleanup and Disposal:

- Wear appropriate protective equipment and ventilation.
- Do not allow to enter drainage/ surface-water/ ground water
- Absorb with an inert, dry material and place in a waste disposal container in full compliance with national regulations.

7. SHELF LIFE, HANDLING AND STORAGE

Shelf Life:

- 18 months at room temperature (15°C to 30°C).

Handling:

- Observe good laboratory handling practices. Wash hands thoroughly after removal of protective gloves.
- Avoid contact with eyes and skin. Avoid breathing vapors and do not ingest.
- Use only with adequate ventilation.
- Label container and keep container tightly closed.

Storage:

- Store at room temperature (15°C to 30°C) in a cool, dry, well-ventilated area away from incompatible substances. Do not keep at temperatures above 30°C.
- Store away from oxidizers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Lungs

- Cetrimoniumbromide Limit 6 mg/m^3 (Alveole passing fraction)
- 2-Amino-2-(hydroxymethyl)-propan-1,3-diol Limit TLV dust: 10 mg/m^3 (Alveole passing fraction)

Engineering Controls:

- Use adequate ventilation.

Eyes Protection:

- Avoid contact with eyes. Wear appropriate safety goggles or glasses with side shields.

Skin Protection:

- Avoid contact with skin. Wear gloves and protective clothing to minimize skin contact. Take off contaminated, saturated clothing immediately.

9. PHYSICAL and CHEMICAL PROPERTIES

Physical State	Clear, colorless liquid
Odor	None
pH	ND
Boiling Point/Range	ND
Melting Point/Range	ND
Flash Point	ND
Flammability	Non-flammable
Vapor Pressure	ND
Water Solubility	Miscible
Partition Coefficient	ND
Viscosity	ND
Vapor Density	ND
Evaporation Rate	ND

10. STABILITY and REACTIVITY

Stability:

- Stable in normal conditions

Materials and Conditions to Avoid:

- Protect from warming up/ overheating.
- Reactions with strong oxidizing agents.

Hazardous Decomposition Products:

- Hazardous decomposition or byproducts will not occur in normal conditions

Hazardous Polymerization:

- Will not occur

11. TOXICOLOGY INFORMATION

Category	Determination
Acute Health Effects	
Inhalation	NA
Ingestion	NA
Irritation (to skin/ eye)	Irritating to eyes
Carcinogenicity	ND
Epidemiology, Reproductive Effects, Neurotoxicity	ND
Other Studies	ND

12. ECOLOGICAL INFORMATION

Ecological Information:

- Unavailable for this product
- The product is partially biodegradable. Substantial residues remain.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: R 2 / D 10 Waste-Code No.::07 07 99

- Prior to disposal, review federal, state and local government requirements
- Wash with suitable cleaner
- Do not allow to go down the drain.

14. TRANSPORT INFORMATION

TDG Class:

- Not dangerous goods
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15. REGULATORY INFORMATION

WHMIS Classification:

- 2; Classification according to VwVwS

16. OTHER INFORMATION

R 22: Harmful if swallowed.
R 34: Causes burns.
R 36: Irritating to eyes.
R 36/38: Irritating to eyes and skin.
R 50: Very toxic to aquatic organisms.

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:
NA – Not Applicable ND – Not Determined