



Material Data Safety Sheet

AutoGen, Inc.
84 October Hill Rd.
Holliston, MA 01746
(508) 429-5965

Date revised: 09-04-06

Emergency Telephone Number: (800) 424-9300

Agent: CHEMTREC

Section 1 – Product and Company Information

Product Name: AGFSTAR Oragene DNA Saliva 2 – Resuspension Solution A

Product Number: AGF-R3

Company: AutoGen, Inc.

Address: 84 October Hill Rd.
Holliston, MA 01746

Phone: (774) 233-3000

Fax: (508) 429-9765

Section 2 – Composition/Information on Ingredients

<u>Chemical name</u>	<u>CAS #</u>
Tris-HCl	77-86-1
EDTA	6381-92-6
Water	7732-18-5

Section 3 - Hazards Identification

Emergency Overview

CAUTION! Handling care generally in keeping with safe laboratory practices is recommended.

Routes of Entry

Potential Acute Health Effects

Eyes: No known acute effects of this product resulting from eye contact.

Skin: No known acute effects of this product resulting from skin contact.

Inhalation: No known acute effects of this product resulting from inhalation.

Ingestion: No known acute effects of this product resulting from ingestion.



Potential Chronic Health Effects

Carcinogenic Effects: This material is not known to cause cancer in animals or humans.

Additional information: See Toxicological Information (section 11)

Medical Conditions Aggravated by Overexposure:

Repeated or prolonged exposure is not known to aggravate medical condition.

Hazard Description:

Harmful if swallowed or inhaled. Causes irritation to skin, eyes and respiratory tract.

NFPA Rating (0-4):

Fire hazard	0
Health	0
Reactivity	0
Specific hazard	0

Section 4- First Aid Measures

General Information:

Immediately remove any clothing soiled by the substance. Wash affected area with copious amounts of water for at least 15 minutes and then soap and water. Speed in removing material from skin is extremely important. Use safety shower.

Eye Contact:

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention if irritation occurs.

Skin Contact:

Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops. Cold water may be used.

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms appear.

Ingestion:

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately.

Loosen tight clothing such as a collar, tie, belt or waistband.



Section 5- Fire Fighting Measures

Flammability of the Product:

Non-flammable.

Auto-Ignition Temperature:

Not applicable.

Flash Points

Not applicable.

Flammable Limits

Not applicable.

Products of Combustion

Not available.

Fire Hazards in Presence of Various Substances

Not applicable.

Explosion Hazards in Presence of Various Substances

Risks of explosion of the product in presence of static discharge: No.

Risks of explosion of the product in presence of mechanical impact: No.

Fire Fighting Media and Instructions

Not applicable.

Protective Clothing (Fire)

Not applicable.

Special Remarks on Fire Hazards

Not available.

Special Remarks on Explosion Hazards

May emit toxic fumes under fire conditions.

Thermal decomposition may release toxic and/or hazardous gases. (EDTA di-Sodium Dihydrate)

Section 6 – Accidental Release Measures

Small Spill and Leak

Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.



Large Spill and Leak

Absorb with an inert material and put the spilled material in an appropriate waste disposal.

Spill Kit Information

No specific spill kit required for this product.

Section 7 – Handling and Storage

Handling:

Avoid breathing vapors or spray mists. Avoid contact with skin and eyes. Do not ingest.

Storage:

Keep container tightly closed. Keep container in a cool, well-ventilated area.

Section 8 – Exposure controls/Personal Protection

Engineering Controls

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits.

Personal Protection

Eyes:	Safety glasses.
Body:	Lab coat.
Respiratory:	Vapor respirator. Be sure to use an approved/certified respirator or equivalent.
Hands:	Gloves.
Feet:	Not applicable.

Personal Protection in Case of a Large Spill

Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits

Tris (hydroxymethyl) aminomethane: Not available.

EDTA di-Sodium Dihydrate: Not available.

Water: Not available.

Section 9 – Physical and Chemical Properties



Odor: Not available.

Color: Colorless.

Appearance:

Physical State and Appearance: Liquid.

Molecular Weight: Not applicable.

Molecular Formula: Not applicable.

pH: Not available.

Boiling/Condensation Point: The lowest known value is 99.9°C (211.8°F) (Water).

Melting/Freezing Point: May start to solidify at -0.1°C (31.8°F) based on data for: Water.

Specific Gravity: Not available.

Vapor Pressure: Not available.

Vapor Density: Not available.

Odor Threshold: Not available.

Evaporation Rate: 0.36 (Water) compared to (n-BUTYL ACETATE=1)

LogKow: Not available.

Solubility: Soluble in water.

Section 10 – Stability and Reactivity

Stability/Reactivity

The product is stable.

Conditions of Instability

Not available.

Incompatibility with Various Substances

Not available.

Section 11 – Toxicological Information

RTECS Number:

Tris (hydroxymethyl) aminomethane: TY2900000

EDTA di-Sodium Dihydrate: Not available.

Water: ZC0110000

Toxicity

LD50: Not available.

LC50: Not available.

Chronic Effects on Humans: Not available.

Acute Effects on Humans: Not available.

Synergetic Products (Toxicologically): Not available.

Irritancy Draize Test: Not available.

Sensitization: Not available.



Carcinogenic Effects: This material is not known to cause cancer in animals or humans.

Toxicity to Reproductive System: Not available.

Teratogenic Effects: Not available.

Mutagenic Effects: Not available.

Section 12 – Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Toxicity of the Products of Biodegradation: The product itself and its products of degradation are not toxic.

Section 13 – Disposal Considerations

EPA Waste Number: Not available.

Treatment: Material does not have an EPA Waste Number and is not a listed waste; however, consultation with a permitted waste disposal site (TSD) should be accomplished. Always contact a permitted waste disposal (TSD) to assure compliance with all current local, state, and Federal Regulations.

Section 14 – Transport Information

DOT Classification

Proper Shipping Name: CHEMICALS, N.O.S.

IMO/IMDG Classification

Proper Shipping Name: CHEMICALS, N.O.S.

TDG Classification

Not available

ICAO/IATA Classification

CHEMICALS, N.O.S.

Section 15 – Regulatory Information

U.S. Federal Regulations

TSCA 8(b) inventory: Tris (hydroxymethyl) aminomethane; EDTA di-Sodium Dihydrate; Water

SARA 302/304/311/312 extremely hazardous substances: No products were found.

SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals: No products were found.



SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found. SARA 313 toxic chemical notification and release reporting: No products were found.

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.

WHMIS (Canada): Not controlled under WHMIS (Canada).

CEPA DSL: Tris (hydroxymethyl) aminomethane; Water

This product has been classified in accordance with the hazard criteria of the Controlled Product Regulations and the MSDS contains all required information.

Section 16 – Other Information

This bulletin is for your guidance and is based upon information and tests believed to be reliable. AutoGen makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages thereto. The data are offered solely for your consideration, investigation, and verification. These suggestions should not be confused with state, municipal, or insurance requirements, or with national safety codes and constitute no warranty. Any use of these data and information must be determined by the user to be in accordance with applicable federal, state, and local regulations.



Material Data Safety Sheet

AutoGen, Inc.
84 October Hill Rd.
Holliston, MA 01746
(508) 429-5965

Date revised: 03-01-06

Emergency Telephone Number: (800) 424-9300

Agent: CHEMTREC

Section 1 – Product and Company Information

Product Name: AGF Star Oragene Saliva 2 DNA – DNA Precipitation Solution A

Product Number: AGF-R4

Company: AutoGen, Inc.

Address: 84 October Hill Rd.
Holliston, MA 01746

Phone: (774) 233-3000

Fax: (508) 429-9765

Section 2 – Composition/Information on Ingredients

<u>Chemical name</u>	<u>CAS #</u>
Isopropanol	66-63-0

Section 3 - Hazards Identification

Dangerous Components:

UN Number: 1993

Chemical: Isopropanol

Class: 3, Flammable liquid

Emergency Overview

Flammable liquid and vapor.

Vapor may cause flash fire.



Hazard Description:

Harmful if swallowed or inhaled. Causes irritation to skin, eyes and respiratory tract.

NFPA Rating (0-4)

Fire hazard	3
Health	1
Reactivity	0
Specific hazard	0

Section 4- First Aid Measures

General Information:

Immediately remove any clothing soiled by the substance .Wash affected area with copious amounts of water for at least 15 minutes and then soap and water. Speed in removing material from skin is extremely important. Use safety shower.

Eye Contact:

Rinse opened eye for at least 15 minutes under running water. Then consult at a physician.

Skin Contact:

Immediately wash with water and soap and rinse thoroughly. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Call physician immediately.

Inhalation:

Supply fresh air. If not breathing, give artificial respiration. If breathing is difficult give oxygen. Call physician immediately.

Swallowing:

If conscious, drink water and induce vomiting immediately as directed by medical personal. Never give an unconscious person anything to ingest.

Section 5- Fire Fighting Measures

Flammability of the Product

Product will burn

Auto-Ignition Temperature

399.05 C



Flash Points

Open cup: 11.9 C

Suitable Extinguishing Agents:

SMALL FIRE: Use DRY chemical powder.

LARGE FIRE: Use alcohol foam, water spray or fog. Cool containing vessels with water jet in order to prevent pressure build-up, auto ignition or explosion.

Protective Clothing (Fire)

Be sure to use an approved/certified respirator or equivalent.

Section 6 – Accidental Release Measures

Small Spill and Leak

Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.

Large Spill and Leak

Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Cover with DRY earth, DRY sand or other non-combustible material followed with plastic sheet to minimize spreading or contact with rain. Do not get water inside container. Do not touch spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Section 7 – Handling and Storage

Handling:

Keep away from heat, sparks and flame. Keep container closed. Do not get in eyes, on skin, or on clothing. Do not ingest. Do not breathe gas/fumes/ vapor/spray.

Storage:

Keep container in a cool, well-ventilated area.

Section 8 – Exposure controls/Personal Protection

Personal Protection

Use chemical safety goggles, protective gloves or vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.



Engineering Controls

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Exposure Limits

ACGIH (United States, 1994).

STEL: 1230 mg/m³, 500 ppm

TWA: 983 mg/m³ Period: 10 hour(s), 400 ppm Period: 10 hour(s).

NIOSH REL (United States, 1994).

STEL: 1225 mg/m³, 500 ppm

TWA: 980 mg/m³ Period: 10 hour(s), 400 ppm Period: 10 hour(s).

OSHA Final Rule (United States, 1989).

STEL: 1225 mg/m³, 500 ppm

TWA: 980 mg/m³, 400 ppm

Section 9 – Physical and Chemical Properties

Appearance:

Colorless liquid with characteristic odor.

Boiling point: 82.4 C

Melting point: -89.5 C

Specific gravity: 0.786 (water=1)

Solubility in /Miscibility with water: Soluble in water.

Vapor density: 2.07

Vapor pressure: 32.4 (20 C) mmHg

Section 10 – Stability and Reactivity

Stability/Reactivity

Stable under ordinary handling conditions.

Incompatibility with Various Substances

Highly reactive with oxidizing agents.

Section 11 – Toxicological Information

CAS NO. Designation of Materials:

67-63-0 Isopropyl alcohol

Acute toxicity: oral mouse LD₅₀, 4,960 mg/kg

Caustic effect on skin, mucous membranes and eye.

Acute Toxicity

Oral LD₅₀: mouse 3,600mg/kg



Dermal LD50: rabbit 12,800mg/kg

Acute Effects on Humans

Extremely hazardous in case of eye contact (irritant). Inflammation of the eye is characterized by redness, watering, and itching. May be hazardous in case of skin contact (irritant). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering. Non-permeator by skin. Hazardous in case of inhalation. Hazardous in case of ingestion.

Section 12 – Ecological Information

This product itself and its products of degradation are not toxic.

Section 13 – Disposal Considerations

Incineration, fuels blending or recycle. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

Section 14 – Transport Information

DOT Classification

Proper Shipping Name: ISOPROPANOL

Hazard Class: 3

UN number: UN1993

Packing Group: II

IMO/IMDG Classification

Proper Shipping Name: ISOPROPANOL

Hazard Class: 3

UN number: UN1993

Packing Group: II

TDG Classification

Not available

ICAO/IATA Classification

Proper Shipping Name: ISOPROPANOL

Hazard Class: 3

UN number: UN1993

Packing Group: II

Section 15 – Regulatory Information



U.S. Federal Regulations

TSCA 4(a) final test rules: ISOPROPYL ALCOHOL

TSCA 8(b) inventory: ISOPROPYL ALCOHOL

TSCA 8(d) H and S data reporting: ISOPROPYL ALCOHOL: 1986

TSCA 12(b) one time export: ISOPROPYL ALCOHOL

SARA 302/304/311/312 extremely hazardous substances: No products were found.

SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals: ISOPROPYL ALCOHOL

SARA 311/312 MSDS distribution - chemical inventory - hazard identification:

ISOPROPYL ALCOHOL: Fire Hazard, Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard

SARA 313 toxic chemical notification and release reporting: ISOPROPYL ALCOHOL

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.

Section 16 – Other Information

This bulletin is for your guidance and is based upon information and tests believed to be reliable. AutoGen makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages thereto. The data are offered solely for your consideration, investigation, and verification. These suggestions should not be confused with state, municipal, or insurance requirements, or with national safety codes and constitute no warranty. Any use of these data and information must be determined by the user to be in accordance with applicable federal, state, and local regulations.



Material Data Safety Sheet

AutoGen, Inc.
84 October Hill Rd.
Holliston, MA 01746
(508) 429-5965

Date revised: 11-23-04
Emergency Telephone Number: (800) 424-9300
Agent: CHEMTREC

Section 1 – Product and Company Information

Product Name: AGF STAR Oragene Saliva 2 DNA – DNA Wash Solution A
Product Number: AGF-R5

Company: AutoGen, Inc.
Address: 84 October Hill Rd.
Holliston, MA 01746
Phone: (774) 233-3000
Fax: (508) 429-9765

Section 2 – Composition/Information on Ingredients

<u>Chemical name</u>	<u>CAS #</u>
Ethanol	2-202
Isopropyl alcohol	67-63-0
Water	

Section 3 - Hazards Identification

Dangerous Components:
UN Number: 1993
Chemical: Ethanol/Isopropanol alcohol
Class: 3, Flammable liquid

Emergency Overview
Poison
Flammable liquid and vapor. Vapor may cause flash fire.

Hazard Description



Poison! Flammable liquid and vapor. Vapor may cause flash fire. May be fatal if swallowed. Cannot be made non-poisonous. Birth defect hazard. Harmful if inhaled or absorbed through skin. Causes respiration tract, eye and skin irritation. Contains material which causes danger to the following organs: blood, kidneys, reproductive system, liver, gastrointestinal, tract, respiratory tract, skin, central nervous system, eye, lens or cornea.

NFPA Rating (0-4)

Fire hazard	3	
Health	1	
Reactivity	0	
Specific hazard		0

Section 4- First Aid Measures

General Information:

Immediately remove any clothing soiled by the substance .Wash affected area with copious amounts of water for at least 15 minutes and then soap and water. Speed in removing material from skin is extremely important. Use safety shower.

Eye Contact:

Rinse opened eye for at least 15 minutes under running water. Then consult at a physician.

Skin Contact:

Immediately wash with water and soap and rinse thoroughly. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Call physician immediately.

Inhalation:

Supply fresh air. If not breathing, give artificial respiration. If breathing is difficult give oxygen. Call physician immediately.

Swallowing

If conscious, drink water and induce vomiting immediately as directed by medical personal. Never give an unconscious person anything to ingest.

Section 5- Fire Fighting Measures

Flammability of the Product

Product will burn

Auto-Ignition Temperature

The lowest known value is 371 C (as ethanol)



Flash Points

Closed cup: 19.0 C (as ethanol)

Suitable Extinguishing Agents

SMALL FIRE: Use DRY chemical powder.

LARGE FIRE: Use alcohol foam, water spray or fog. Cool containing vessels with water jet in order to prevent pressure build-up, auto ignition or explosion.

Protective Clothing (Fire)

Be sure to use an approved/certified respirator or equivalent.

Section 6 – Accidental Release Measures

Small Spill and Leak

Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.

Large Spill and Leak

Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Cover with DRY earth, DRY sand or other non-combustible material followed with plastic sheet to minimize spreading or contact with rain. Do not get water inside container. Do not touch spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Section 7 – Handling and Storage

Handling:

Keep away from heat, sparks and flame. Keep container closed. Do not get in eyes, on skin, or on clothing. Do not ingest. Do not breathe gas/fumes/ vapor/spray.

Storage:

Keep container in a cool, well-ventilated area.

Section 8 – Exposure controls/Personal Protection

Personal Protection

Use chemical safety goggles, protective gloves or vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.

Engineering Controls



Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Exposure Limits

Isopropyl alcohol

ACGIH (United States, 1994).

STEL: 1230 mg/m³, 500 ppm

TWA: 983 mg/m³ Period: 10 hour(s), 400 ppm Period: 10 hour(s).

NIOSH REL (United States, 1994).

STEL: 1225 mg/m³, 500 ppm

TWA: 980 mg/m³ Period: 10 hour(s), 400 ppm Period: 10 hour(s).

OSHA Final Rule (United States, 1989).

STEL: 1225 mg/m³, 500 ppm

TWA: 980 mg/m³, 400 ppm ON MATERIALS

Ethanol

ACGIH (United States, 1994).

TWA: 1880 mg/m³: 1000 ppm

NIOSH REL (United States, 2000).

TWA: 1900 mg/m³ Period: 10 hour(s): 1000 ppm Period: 10 hour(s).

OSHA Final Rule (United States, 1989).

TWA: 1900 mg/m³: 1000 ppm

Section 9 – Physical and Chemical Properties

Appearance:

Colorless liquid with characteristic odor.

Boiling point: The lowest known value is 78.3 C (Ethanol)

Melting point: Not determined.

Specific gravity: Not determined.

Solubility in /Miscibility with water: Soluble in water.

Vapor density: The highest known value is 2.07 (isopropyl alcohol)

Vapor pressure: The highest known value is 5.9 kPa (44 mmHg) at 25 C (Ethanol)

Section 10 – Stability and Reactivity

Stability/Reactivity

Stable under ordinary handling conditions.

Incompatibility with Various Substances

Reactive with oxidizing agents, acids.



Section 11 – Toxicological Information

CAS NO. Designation of Materials:

64-17-5 Ethanol

Acute toxicity: oral mouse LD50, 3,450mg/kg

67-63-0 Isopropyl alcohol (100%, W/V)

Acute toxicity: oral mouse LD50, 4,960 mg/kg

Caustic effect on skin, mucous membranes and eye.

Chronic Effects of Humans:

Developmental Toxicity: Classified Reproductive system/toxin/female, Reproductive system/toxin/male [SUSPECTED].

Contains material which may cause damage to the following organs: blood, the reproductive system, liver, upper respiratory tract, skin, eyes, central nervous system (CNS), eye, lens or cornea.

Acute Effects on Humans: Extremely hazardous in case of eye contact (irritant). Inflammation of the eye is characterized by redness, watering, and itching. May be hazardous in case of skin contact (irritant). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering. Non-permeator by skin. Hazardous in case of inhalation. Hazardous in case of ingestion.

Section 12 – Ecological Information

This product itself and its products of degradation are not toxic.

Section 13 – Disposal Considerations

Incineration, fuels blending or recycle. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

Section 14 – Transport Information

DOT Classification

Proper Shipping Name: Flammable liquid, n.o.s., (Ethanol/Isopropyl alcohol)

Hazard Class: 3

UN number: UN1993

Packing Group: II

ICAO/IATA Classification

Proper Shipping Name: Flammable liquid, n.o.s., (Ethanol/Isopropyl alcohol)

Hazard Class: 3

UN number: UN1993



Packing Group: II

Section 15 – Regulatory Information

U.S. FEDERAL REGULATIONS

TSCA 4(a) final test rules: ISOPROPYL ALCOHOL

TSCA 8(b) inventory: ISOPROPYL ALCOHOL; ETHANOL; WATER.

TSCA 8(d) H and S data reporting: ISOPROPYL ALCOHOL: 1986

TSCA 12(b) one time export: ISOPROPYL ALCOHOL

SARA 302/304/311/312 extremely hazardous substances: No products were found.

SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals: ISOPROPYL ALCOHOL; ETHANOL

SARA 311/312 MSDS distribution - chemical inventory - hazard identification:

ISOPROPYL ALCOHOL: Fire Hazard, Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard:

SARA 313 toxic chemical notification and release reporting: ISOPROPYL ALCOHOL

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.

Section 16 – Other Information

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Material Data Safety Sheet

AutoGen, Inc.
84 October Hill Rd.
Holliston, MA 01746
(800) 292-5678

Date revised: 02-11-04

Emergency Telephone Number: (800) 424-9300

Agent: CHEMTREC

Section 1 – Product and Company Information

Product Name: AGF STAR –Oragene DNA Saliva 2 Kit - Purifier

Product Number: AGF-R7

Company: AutoGen, Inc.

Address: 84 October Hill Rd.
Holliston, MA 01746

Phone: (774) 233-3000

Fax: (508) 429-9765

Section 2 – Composition/Information on Ingredients

<u>Chemical name</u>	<u>CAS #</u>
Potassium Acetate	127-08-2
Water	

Section 3 - Hazards Identification

Emergency overview

As part of good industrial and personal hygiene and safety procedure, avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin, eyes and clothing.



Section 4- First Aid Measures

Inhalation

Remove to fresh air. Get medical attention for any breathing difficulty.

Ingestion

If large amounts were swallowed, give water to drink and get medical advice.

Skin Contact

Wash exposed area with soap and water. Get medical advice if irritation develops.

Eye Contact

Wash thoroughly with running water. Get medical advice if irritation develops.

Inhalation

Remove to fresh air. If breathing is impaired give oxygen. If breathing has stopped, give artificial respiration and contact emergency medical personnel.

Skin Contact

Wash with copious amounts of water. Remove contaminated clothing and contact a physician.

Eye contact

Flush with water for 15 minutes and contact a physician.

Section 5- Fire Fighting Measures

Fire

Not considered to be a fire hazard.

Explosion

Not considered to be an explosion hazard.

Fire Extinguishing Media

Use any means suitable for extinguishing surrounding fire.

Special Information

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.



Section 6 – Accidental Release Measures

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal.

Section 7 – Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

Section 8 – Exposure controls/Personal Protection

Airborne Exposure Limits

None established.

Ventilation System

In general, dilution ventilation is a satisfactory health hazard control for this substance. However, if conditions of use create discomfort to the worker, a local exhaust system should be considered.

Personal Respirators (NIOSH Approved)

For conditions of use where exposure to dust or mist is apparent and engineering controls are not feasible, a particulate respirator (NIOSH type N95 or better filters) may be worn. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. **WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection

Wear protective gloves and clean body-covering clothing.

Eye Protection

Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.



Section 9 – Physical and Chemical Properties

Appearance

White, deliquescent, crystalline powder.

Odor

Odorless.

Solubility

200 g/100 g water.

Specific Gravity

1.57 @ 25C

pH

9.7 Conc: 0.1M (solution)

% Volatiles by volume @ 21C (70F):

0

Boiling Point

No information found.

Melting Point

292C (558F)

Vapor Density (Air=1)

No information found.

Vapor Pressure (mm Hg)

No information found.

Evaporation Rate (BuAc=1)

No information found.

Section 10 – Stability and Reactivity

Stability

Stable under ordinary conditions of use and storage.

Hazardous Decomposition Product

May produce oxides of carbon and the contained metal.

Hazardous Polymerization



Will not occur.

Incompatibilities

Strong oxidizing agents.

Conditions to Avoid

Moisture, heat, flames, ignition sources and incompatibles.

Section 11 – Toxicological Information

Oral rat LD50: 3250 mg/kg

-----\Cancer Lists\-----

---NTP Carcinogen---

Ingredient	Known	Anticipated	IARC Category
Potassium Acetate (127-08-2)	No	No	None

Section 12 – Ecological Information

Environmental Fate: No information found.

Environmental Toxicity: No information found.

Section 13 – Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

Section 14 – Transport Information

Not Regulated

Section 15 – Regulatory Information

-----\Chemical Inventory Status - Part 1\-----

Ingredient	TSCA	EC	Japan	Australia
Potassium Acetate (127-08-2)	Yes	Yes	Yes	Yes

-----\Chemical Inventory Status - Part 2\-----



--Canada--

Ingredient	Korea	DSL	NDSL	Phil.
Potassium Acetate (127-08-2)	Yes	Yes	No	Yes

-----\Federal, State & International Regulations - Part 1\-----

-SARA 302- -----SARA 313-----

Ingredient	RQ	TPQ	List	Chemical Catg.
Potassium Acetate (127-08-2)	No	No	No	No

-----\Federal, State & International Regulations - Part 2\-----

-RCRA- -TSCA-

Ingredient	CERCLA	261.33	8(d)
Potassium Acetate (127-08-2)	No	No	No

Chemical Weapons Convention: No TSCA 12(b): No CDTA: No
 SARA 311/312: Acute: No Chronic: No Fire: No Pressure: No
 Reactivity: No (Pure / Solid)

Australian Hazchem Code: None allocated.

Poison Schedule: None allocated.

WHMIS:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

Section 16 – Other Information

This bulletin is for your guidance and is based upon information and tests believed to be reliable. AutoGen makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages thereto. The data are offered solely for your consideration, investigation, and verification. These suggestions should not be confused with state, municipal, or insurance requirements, or with national safety codes and constitute no warranty. Any use of these data and information must be determined by the user to be in accordance with applicable federal, state, and local regulations.

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