



Material Data Safety Sheet

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

Date revised: 02-19-04
Emergency Telephone Number: (800) 424-9300
Agent: CHEMTREC

Section 1 – Product and Company Information

Product Name: AutoGenFlex DNA Precipitation Solution
Product Number: AGF-R4

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

Emergency overview

Highly Toxic
Suspected Carcinogen
Target organs: Nerves, Liver, Heart, CNS, Kidneys, and Teeth

Section 4- First Aid Measures

Ingestion

Get medical attention immediately



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.

Wash contaminated clothing before reuse.

Section 5- Fire Fighting Measures

Extinguishing Media

Carbon dioxide, Dry Chemical Powder, or appropriate foam

Firefighting

Protective Equipment

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes

Special Procedures

Use water spray to cool fire-exposed containers

Specific Hazards

Vapor may travel a considerable distance to source of ignition and flashback

Section 6 – Accidental Release Measures

Procedures in case of accidental leak or spill

Evacuate area



Shut off all sources of ignition

Personal Precaution Equipment

Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves

Clean-up procedures

Cover with dry-lime, sand or soda ash. Place in covered containers, using non-sparking tools. Transport outdoors. Ventilate area and wash spill site after material pick-up is complete.

Section 7 – Handling and Storage

Handling

Wear appropriate safety equipment. Especially chemical resistant gloves, safety goggles, and other protective clothing. In very special cases, NIOSH/MSHA-approved respirator may be required. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Do not breathe vapor.

Storage

Place at 4°C for storage under 1 month. Place at -20°C for long-term storage. Keep tightly closed. Keep away from heat, sparks, and open flame.

Section 8 – Exposure controls/Personal Protection

Personal Protective Equipment

Respiratory

NIOSH-approved respirator

Hand

Compatible chemical-resistant gloves

Eye

Chemical safety goggles

General hygiene measures

Wash hands thoroughly after handling



Section 9 – Physical and Chemical Properties

Appearance

Physical State: liquid

Color: dilute yellow

Form: N/A

Characteristics

Molecular weight:

BP/BP range:

MP/MP range:

Freezing point:

Vapor Pressure:

Vapor Density:

Saturated vapor conc.:

SG/Density:

Bulk density:

Odor Threshold:

Volatile%:

V O C Content:

Water Content:

Solvent Content:

Evaporation Rate:

Viscosity:

Partition Coefficient:

Decomposition Temp.:

Flash Point F:

Flash Point C:

Explosion limits:

Flammability:

Autoignition Temp:

Section 10 – Stability and Reactivity



Stability
Stable

Incompatible agents

Oxidizing agents, peroxides, acids, acid chlorides, acid anhydrides, alkali metals, ammonia

Hazardous decomposition products

Carbon monoxide, carbon dioxide.

Hazardous polymerization

Will not occur.

Section 11 – Toxicological Information

RETCS

<u>Component</u>	<u>Number</u>
Isopropanol	

Routes of exposure

May be harmful by inhalation, ingestion, or skin absorption

Possible effects

Irritation of the skin, eyes, mucous membranes, and upper respiratory tract. CNS depression. Nausea, headache and vomiting. Narcotic effects. Damage to the heart.

Target organs

Nerves, Liver, Heart, Kidneys, CNS, and Teeth.

Section 12 – Ecological Information

Data not available.

Section 13 – Disposal Considerations



General Instructions

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting, as this material is highly flammable.

Observe all Federal, State, and Local environmental regulations.

Section 14 – Transport Information

UN number: UN1993

Proper shipping name: flammable liquid, n.o.s

Hazard Class: 3

Hazard subclass: N/A

Packing group: II

Section 15 – Regulatory Information

EU Directives Classification

Risk Statements

R: 11 36 57

Flammable. Very toxic by Inhalation, contact with skin and ingestion. Causes Burns. May cause cancer.

Safety Statements

S: 7 16 24/25 26

Wear suitable protective clothing, gloves, and eye/face protection. Keep away from heat.

Section 16 – Other Information

Disclaimer

For R&D use only. Not for drug, household, or other uses.

Warranty

The factual information contained in this material safety data sheet is believed to be accurate and reflects, to the best of our knowledge, the currently available data pertaining to the chemicals. This information may be incomplete and is used only as a guide. Users are encouraged to investigate the suitability of the information with respect to their application. AutoGen, Inc. assumes no responsibility resulting from the use or handling of this compound.



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Section 1 – Product and Company Information

Product Name: AutoGenFlex DNA Wash Solution
Product Number: AGF-R5

Company: AutoGen, Inc.
Address: 84 October Hill Rd.
Holliston, MA 01746
Phone: (800) 292-5678
Fax: (508) 429-9765

Section 2 – Composition/Information on Ingredients

<u>Chemical name</u>	<u>CAS #</u>
Ethanol	64-17-5

Section 3 - Hazards Identification

Emergency overview

Highly Toxic
Suspected Carcinogen
Target organs: Nerves, Liver, Heart, CNS, Kidneys, and Teeth

Section 4- First Aid Measures

Ingestion

Get medical attention immediately



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

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Section 5- Fire Fighting Measures

Extinguishing Media

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Firefighting

Protective Equipment

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Special Procedures

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Procedures in case of accidental leak or spill

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Clean-up procedures

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Personal Protective Equipment

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Stability
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Incompatible agents

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Hazardous decomposition products

Carbon monoxide, carbon dioxide.

Hazardous polymerization

Will not occur.

Section 11 – Toxicological Information

RETCS

<u>Component</u>	<u>Number</u>
Ethanol	KQ6300000

Routes of exposure

May be harmful by inhalation, ingestion, or skin absorption

Possible effects

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Proper shipping name: flammable liquid, n.o.s

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Risk Statements

R: 10 26/27/28 34 45

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