



Safety Data Sheet

AutoGen, Inc.
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Emergency Telephone Number: 800.633.8253 (USA & Canada) 801.629.0667
International

Agent: PERS

Section 1 – Product and Company Information

Product Name: DNA Precipitation Solution A

Product Number: R4 or AG00410-R4

Company: AutoGen, Inc.

Address: 84 October Hill Rd.
Holliston, MA 01746

Phone: 774.233.3000

Web: www.autogen.com

Section 2 – Hazards Identification

Chemical name

CAS #

Isopropanol

67-63-0

Pictogram



Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquids (Category 2), H225 Eye irritation (Category 2A), H319

Signal Word

Danger

Hazard statement H225

Flammable Liquid



Section 3 – Composition / information on ingredients

Component	CAS-NO	Weight
Isopropanol	67-63-0	>99.5

Dangerous Components:

UN Number: 1993

Chemical: Isopropanol (>99.5%)

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 ON MATERIALS

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.