

MATERIAL SAFETY DATA SHEET

Version: P.01

Section 1 — Chemical Product and Company Identification

Product Identifier Apostle MiniMax™ cfDNA Preservation Solution Cat #: N/A		
Product Use Stabilization of cell-free plasma DNA. For research use only.		
Manufacturer's Information Apostle, Inc. 160 E Tasman Dr, STE 116, San Jose, CA 95134		
Emergency Telephone +1-8889927678		
Email: support@apostlebio.com	Website: http://www.apostlebio.com/	Phone Number : +1-8889927678

SECTION 2 — Hazards Identification

Product Description:

Mixture

Red to reddish-brown; Clear; Liquid; Odorless

Classification:

Acute Toxicity: Dermal, Inhalation, Oral, category 3

Carcinogenic, category 1A

Germ Cell Mutagenicity, category 2

Serious eye damage/ Irritation, category 1

Skin Corrosion, category 1B

Skin Sensitization, category 1

Specific target organ toxicity: Single Exposure: Dermal, Oral, Respiratory, category 1

Acute Aquatic Toxicity, category 3

Flammable liquids, category 4

Label Elements:

Container labeling is not required on medical devices per 29CFR1910.1200(b)(5)(iii).

Symbol: Corrosives, Exclamation Point, Health Hazard, Skull & Crossbones

Signal Word: Danger

Hazard Statements:

Toxic in contact with skin, inhaled or swallowed

May be fatal if swallowed and enters airways

Suspected of causing genetic defects <routes of exposure
Causes severe skin burns and serious eye damage
May cause an allergic skin reaction
Causes damage to the eyes and brain
Harmful to aquatic life
Combustible liquid

Precautionary Statements:

*Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep container tightly closed and store locked up and in dark and well-ventilated place.

Do not breathe mist/vapors/spray or eat, drink or smoke when using this product. Use only in a well-ventilated area.

Wear protective gloves/ eye protection/ face protection. Wash skin thoroughly after handling.

IF SWALLOWED: immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting.

IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. Take off contaminated clothing and wash before reuse. Contaminated work clothing should not be allowed out of the workplace. If skin irritation or rash occurs: Get medical advice/ attention.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER/doctor.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

If exposed or concerned: Get medical advice/ attention. Call a POISON CENTER or doctor/physician

Specific treatment (see supplemental first aid instructions on this label)

Chemical residues and remains should be routinely handled as special waste. This must be disposed of in compliance with anti-pollution and other laws of the country concerned.

Keep away from heat/sparks/open flames/ hot surfaces - No Smoking.

In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Other hazards:

No data available

SECTION 3 — Composition

This product contains an anticoagulant and a cell preservative in a liquid medium. Specific chemical formula is being withheld as a trade secret pursuant to 29 CFR Section 1910.1200(i)(1).

SECTION 4 — First Aid Measures

Description of first aid measures:

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

Inhalation

If product is inhaled, move exposed individual to fresh air. If individual is not breathing, begin artificial respiration by trained personnel and obtain medical attention immediately.

Skin contact

In case of skin contact, rinse with plenty of water, then wash with soap and water. Remove contaminated clothing and shoes. Wash clothing before reuse. Obtain medical attention.

Eye contact

If product enters eyes, rinse eyes gently with water for 15 minutes or longer, making sure that the eyelid is held open. Obtain medical attention.

Ingestion

If product is ingested, rinse mouth with water. Never give anything by mouth to an unconscious person. Obtain medical attention immediately.

Most important symptoms and effects, both acute and delayed:

Irritation of skin, eyes and/or respiratory system may occur.

Indication of any immediate medical attention and special treatment needed:

Treat symptoms. No special immediate treatment required.

SECTION 5 — Fire Fighting Measures

Suitable Extinguishing media:

Use water spray, dry sand, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the chemical:

Carbon oxides, nitrogen oxides (NO_x), Potassium oxides.

Advice for firefighters:

Self-contained breathing apparatus is recommended for firefighters in all chemical fire situations.

SECTION 6 — Accidental Release Measures

Personal precautions:

Observe general safety guidelines for protection; avoid eye and skin contact.

Wear protective gloves, protective clothing and eye/face protection. Ensure adequate ventilation.

Methods and material for containment and cleaning up:

Take up spill or leak with an appropriate inert, non-flammable absorbent and place in a suitable waste container. Spilled product and cleanup materials should be treated as non-hazardous waste.

Follow-up guidelines:

Flush spill area with water.

SECTION 7 — Handling and Storage

Handling:

Use good laboratory procedures; avoid eye and skin contact. Provide appropriate exhaust ventilation. Normal measures of preventive fire protection.

Storage:

To maintain product quality, store according to the instructions in the product labeling. Keep container tightly closed in a dry, dark and well-ventilated place. Store away from strong oxidizing agents. Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

SECTION 8 — Exposure Controls/Personal Protection

Engineering measures:

Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment:

Engineering Controls

No special engineering controls are required. Use with good general ventilation.

Eye protection

Safety glasses or chemical goggles should be worn to prevent eye contact. Refer U.S. OSHA 29 CFR 1910.133, European Standard EN166 or appropriate government standards.

Skin protection

Wear impervious gloves such as Nitrile or equivalent and appropriate lab coat. Refer to U.S. OSHA 29 CFR 1910.138, European Standard EN 374, EN 14605:2005+A1:2009 or appropriate government standards.

SECTION 9 — Physical and Chemical Properties

Physical State	Liquid	Color	Red to reddish brown
Odor	Odorless	Transparency	Clear
pH	5-6	Melting/Freezing point	No data available
Boiling point	No data available	Boiling range	No data available

Flash point	No data available	Evaporation rate	No data available
Flammability	No data available	Upper/lower flammability	No data available
Explosive limits	No data available	Vapor pressure	No data available
Vapor density	No data available	Relative density	No data available
Solubility	No data available	Partition coefficient: noctanol/water	No data available
Auto-ignition temperature	No data available	Decomposition temperature	No data available
Viscosity	No data available		No data available

SECTION 10 — Stability and Reactivity

Stability:

Stable in accordance with recommended storage conditions.

Reactivity:

No data available

Materials to avoid:

Keep away from strong oxidizing agents

Conditions to avoid:

Avoid contact with skin and eyes

Hazardous decomposition:

Hazardous decomposition products formed under fire conditions – Carbon oxides, Nitrogen oxides (NO_x), Ammonia

SECTION 11 — Toxicological Information

Toxicological effects:

No data available

Route(s) of exposure:

Eyes, skin, respiratory and digestive system

Symptoms:

Causes skin, eye respiratory and digestive tract irritation.

Delayed effects:

No data available

Immediate effects:

Can irritate with minimal exposure

Chronic effects:**Short exposure:**

No data available

Long exposure:

No data available

Exposure limits

No data available

Germ cell mutagenicity

No data available

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Carcinogenicity:

Components of product listed as a carcinogen to humans under the International Agency for Research on Cancer (IARC) and known human carcinogen under the National Toxicity Program (NTP).

Measures of Toxicity

No data available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12 — Ecological Information**Ecotoxicity**

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

SECTION 13 — Disposal Considerations

Chemical residues and remains should be routinely handled as special waste. This must be disposed of in compliance with anti-pollution and other laws of the country concerned. To ensure compliance we recommend that you contact the relevant (local) authorities and/or an approved waste-disposal company for information. Suggested European waste catalogue 18 01 07 - chemicals other than those mentioned in 18 01 06. Dispose in accordance with national, state and local waste regulations.

SECTION 14 — Transport Information

Transportation of this product is not regulated under ICAO, IATA DGR, IMDG, US DOT, European ADR and RID or Canadian TDG.

UN/ID Number:

Not regulated for transportation

Shipping Name:

Not regulated for transportation

Hazard Class:

Not regulated for transportation

Packing Group:

Not regulated for transportation

Environmental Hazards:

Not regulated for transportation

Special Precautions for user:

None

Transport in bulk according to Annex II of MARPOL and the IBC Code:

Not applicable

SECTION 15 — Regulatory Information

OSHA Hazards

Irritant

SARA 311/312 Hazards:

Acute Health Hazard, Chronic Health Hazard

Toxic Substances Control Act (TSCA)

No ingredients listed.

CERCLA (The Comprehensive Environmental Response, Compensation, and Liability Act) 40 CFR 302.4 :

No ingredients listed.

California Proposition 65:

Reproductive Toxicity to both males and females

Massachusetts Right To Know (RTK) List:

No ingredients listed.

New Jersey Dept. of Health Right To Know (RTK) List:

No ingredients listed.

Pennsylvania Right To Know (RTK) List:

No ingredients listed.

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals:

Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer:

Not applicable

Regulation (EC) No 850/2004 on persistent organic pollutants:

Not applicable

Seveso II - Directive 2003/105/EC amending Council Directive 96/82/EC on the control of major accident hazards involving dangerous substances:

Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances, REACH 1907/2006 EC - Annex XIV - list of substances subject to authorization:

Not applicable

WHMIS:

D2B - Toxic materials

DSL Status

Some components of this product are on Canadian DSL or NDSL lists.

SECTION 16 — Other Information

This above information has been prepared for and applies to Apostle MiniMax™ cfDNA Blood Collection Tube Preservation Solution only. The information in this safety data sheet is acquired by supplier's knowledge, investigation, and professional judgement at the time of preparation. The information shall not be taken as being all inclusive and is to be used as a recommended guide. Apostle Inc. shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein.

End of Safety Data Sheet