

Material Safety Data Sheet

ESA, Inc.
22 Alpha Road
Chelmsford, MA 01824-4171

Phone: 978-250-7000
Fax: 978-250-7090
Prepared: 12/13/02
Updated:

MSDS Date: 12/13/02
Product Name: Plasma Metanephrine Mobile Phase
Product Number: 70-5627
Manufacturer: ESA, Inc.

I. Product and Company Description

ESA, Inc.
22 Alpha Road
Chelmsford, MA 01824-4171

For Product Information:
978-250-7000

Emergency Phone Number:
800-535-5053 (INFOTRAC)
Outside of the United States call collect 1-352-323-3500

Chemical Name or Synonym:
N/A

II. Chemical Composition

Component	CAS#	%Composition
Sodium Dihydrogen Phosphate	10049-21-5	1.4
Citric Acid	5949-29-1	<1
1-Octanesulfonic Acid	5324-84-5	<1
Acetonitrile	75-05-8	7.5
Water	7732-18-5	90

III. Hazards Identification

Potential Health Effects:

Acute Eye:
May cause irritation.

Acute Skin:
May cause irritation with prolonged or repeated skin contact.

Acute Inhalation:
May cause respiratory tract irritation.

Acute Ingestion:
May cause gastrointestinal irritation and severe injury if swallowed.

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IV. First Aid Measures

First Aid Measures for Accidental:

Eye Exposure:

Immediately flush eyes with copious amounts of water. If irritation develops, SEEK MEDICAL ATTENTION.

Skin Exposure:

Wash affected areas with soap and water. If irritation develops, SEEK MEDICAL ATTENTION. Remove and launder contaminated clothing before reuse.

Inhalation:

Move to fresh air. If not breathing, administer artificial respiration. If breathing is difficult, give oxygen. SEEK MEDICAL ATTENTION.

Ingestion:

Never give fluids or induce vomiting if the victim is unconscious or having convulsions. SEEK MEDICAL ATTENTION.

V. Fire Fighting Measures

Fire Hazard Data:

Flash Point: 97°F

Autoignition: ND

Flammability Limits (vol/vol%):	Lower:	Upper:
	ND	ND

Extinguishing Media:

Dry chemical, alcohol foam, CO2, water spray.

Special Fire Fighting Procedures:

Individuals should perform only those fire-fighting procedures for which they have been trained. Wear self contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Unusual Fire and Explosion Hazards:

Dangerous fire and explosion risk. Vapor may travel considerable distance to source of ignition and flash back.

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VI. Accidental Release Measures

Cleanup and Disposal of Spill:

Evacuate the area of all unnecessary personnel. Eliminate any ignition sources until the area is determined to be free from explosion or fire hazards. Contain the release and eliminate its source, if this can be done without risk. Discard any product, residue, disposable container or liner in full compliance with federal, state, and local regulations.

VII. Handling and Storage

Handling/Storage:

Store away from ignition sources and incompatibles. Electrically ground all equipment when handling this product. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed and in a cool, dry place.

VIII. Exposure Controls/Personal Protection

Exposure Guidelines:

Component	ACGIH	OSHA-PELs
Sodium Dihydrogen Phosphate	ND	ND
Citric Acid	ND	ND
1-octanesulfonic acid	ND	ND
Acetonitrile	40 ppm TWA 60 ppm STEL	40 ppm TWA 60 ppm STEL

Engineering Controls:

Ventilation must be adequate to maintain the ambient workplace atmosphere below the exposure limit(s) outlined in the MSDS.

Respiratory Protection:

Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149 if workplace exposure limit(s) is exceeded. Always use a NIOSH/MSA approved respirator when necessary.

Eye/Face Protection:

Wear safety glasses (ANSI standard Z87.1) when handling this product.

Skin Protection:

Wear chemical resistant gloves (such as latex or neoprene) and protective clothing to minimize skin contact.

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IX. Physical and Chemical Properties

Physical Appearance: Clear Liquid

Odor: Aromatic

pH: 2.9

Density: 1.0 g/ml

Specific Gravity: ND

Water Solubility: Soluble

Melting Point: ND

Freezing Point: ND

Boiling Point: 94°C

Vapor Pressure: ND

Vapor Density: ND

Percent Volatiles by Volume: 7.5%

Viscosity: ND

X. Stability and Reactivity

Chemical Stability:
Stable

Conditions to Avoid:
Moisture, incompatibles and ignition sources.

Materials/Chemicals to be Avoided:
Strong acids and bases, oxidizing agents.

Hazardous Decomposition Products:
Carbon Monoxide, Carbon Dioxide, nitrogen oxides, hydrogen cyanide.

Hazardous Polymerization:
Will not occur.

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XI. Toxicological Information

For Acetonitrile

Acute Oral Toxicity:

LD 50 Rabbit: 50 mg/kg

XII. Ecological Information

None

XIII. Disposal Considerations

Waste Disposal Method:

Dispose of in accordance with federal, state and local regulations.

XIV. Transportation Information

US Department of Transportation Shipping Name:

US Department of Transportation	Proper Shipping Name	Flammable Liquids, N.O.S (contains Acetonitrile)
	Hazard Class	3
	ID Number	UN1993
	Packaging Group	III

XV. Regulatory Information

Federal Regulations:

SARA Title III Hazard Classes:

Fire Hazard: Yes
Reactive Hazard: No
Release of Pressure: No
Acute Health Hazard: Yes
Chronic Health Hazard: Yes

TSCA:

Sodium Dihydrogen Phosphate, 1-octanesulfonic acid, water, and Acetonitrile are on the TSCA inventory.

Other Regulations:

State:

Acetonitrile is listed on the following state right to know lists: PA, MA, and NJ.

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XVI. Other Information

National Fire Protection Hazard Ratings - NFPA:

Health Hazard:	2
Flammability:	3
Reactivity:	0

Key Legend Information:

N/A - Not Applicable

ND - Not Determined

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

TLV - Threshold Limit Value

PEL - Permissible Exposure Limit

TWA - Time Weighted Average

STEL - Short Term Exposure Limit

NTP - National Toxicology Program

IARC - International Agency for Research on Cancer

The information contained herein is based on the data available to us and is believed to be correct. However ESA, Inc. makes no warranty, expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof.