

Printing date 03/29/2019 Version Number 3 Reviewed on 03/29/2019

1 Identification

· Product identifier

· Trade name: Stock Standard (1X1 mL)

· Part number: NAIM-833E-1

· Application of the substance / the mixture Reagents and Standards for Analytical Chemical Laboratory Use

· Details of the supplier of the safety data sheet

• Manufacturer/Supplier: Agilent Technologies, Inc. 5301 Stevens Creek Blvd.

Santa Clara, CA 95051 USA

· **Information department:** Telephone: 800-227-9770

e-mail: pdl-msds author@agilent.com

· Emergency telephone number: CHEMTREC®: 1-800-424-9300

2 Hazard(s) identification

· Classification of the substance or mixture



GHS02 Flame

Flam. Liq. 2 H225 Highly flammable liquid and vapor.



GHS06 Skull and crossbones

Acute Tox. 3 H311 Toxic in contact with skin.



GHS08 Health hazard

Muta. 1B H340 May cause genetic defects.

Carc. 1B H350 May cause cancer.

Repr. 1B H360 May damage fertility or the unborn child.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

Eye Irrit. 2A H319 Causes serious eye irritation.

- · Label elements
- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms









GHS02

GHS06

GHS07

CHSUS



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· Signal word Danger

· Hazard-determining components of labeling:

acetonitrile

2.4-dinitrotoluene

nitrobenzene

2-nitrotoluene

· Hazard statements

Highly flammable liquid and vapor.

Harmful if swallowed.

Toxic in contact with skin.

Causes serious eye irritation.

May cause genetic defects.

May cause cancer.

May damage fertility or the unborn child.

· Precautionary statements

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

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

Keep container tightly closed.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting/equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Wear protective gloves/protective clothing/eye protection/face protection.

If swallowed: Call a poison center/doctor if you feel unwell.

Rinse mouth.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

IF exposed or concerned: Get medical advice/attention.

Specific treatment (see on this label).

Take off immediately all contaminated clothing and wash it before reuse.

If eye irritation persists: Get medical advice/attention.

In case of fire: Use for extinction: CO2, powder or water spray.

Store in a well-ventilated place. Keep cool.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

· Classification system:

· NFPA ratings (scale 0 - 4)



Health = 2Fire = 3

Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = *2

Fire = 3



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- · Other hazards
- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable. · **vPvB**: Not applicable.

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- **Description:** Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:						
75-05-8	acetonitrile 98					
121-14-2	2,4-dinitrotoluene	0.127%				
	2,6-dinitrotoluene	0.127%				
98-95-3	nitrobenzene	0.127%				
88-72-2	2-nitrotoluene	0.127%				

4 First-aid measures

- · Description of first aid measures
- · General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

In case of irregular breathing or respiratory arrest provide artificial respiration.

- · After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- · After swallowing: Immediately call a doctor.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

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6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

· Protective Action Criteria for Chemicals

PAC-1:		112
	acetonitrile	13 ppm
	2-amino-4,6-dinitrotoluene	4.2 mg/n
	1,3-dinitrobenzene	3 mg/m^3
	2,4-dinitrotoluene	0.6 mg/r
	2,6-dinitrotoluene	0.6 mg/r
	cyclotetramethylenetetranitramine	19 mg/m
98-95-3	nitrobenzene	3 ppm
121-82-4	perhydro-1,3,5-trinitro-1,3,5-triazine	3 mg/m³
	1,3,5-trinitrobenzene	1.5 mg/r
479-45-8	N-methyl-N,2,4,6-tetranitroaniline	4.5 mg/r
99-08-1	3-nitrotoluene	6 ppm
99-99-0	4-nitrotoluene	6 ppm
118-96-7	2,4,6-trinitrotoluene	0.3 mg/r
88-72-2	2-nitrotoluene	6 ppm
PAC-2:		
75-05-8	acetonitrile	50 ppm
35572-78-2	2-amino-4,6-dinitrotoluene	46 mg/m
99-65-0	1,3-dinitrobenzene	33 mg/m
121-14-2	2,4-dinitrotoluene	12 mg/m
606-20-2	2,6-dinitrotoluene	47 mg/m
2691-41-0	cyclotetramethylenetetranitramine	210 mg/r
98-95-3	nitrobenzene	20 ppm
121-82-4	perhydro-1,3,5-trinitro-1,3,5-triazine	26 mg/m
99-35-4	1,3,5-trinitrobenzene	16 mg/m
479-45-8	N-methyl-N,2,4,6-tetranitroaniline	14 mg/m
99-08-1	3-nitrotoluene	14 ppm
99-99-0	4-nitrotoluene	33 ppm
118-96-7	2,4,6-trinitrotoluene	17 mg/m
	2-nitrotoluene	33 ppm



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PAC-3:	
75-05-8 acetonitrile	150 ppm
35572-78-2 2-amino-4,6-dinitrotoluene	280 mg/m ³
99-65-0 1,3-dinitrobenzene	200 mg/m ³
121-14-2 2,4-dinitrotoluene	200 mg/m ³
606-20-2 2,6-dinitrotoluene	200 mg/m ³
2691-41-0 cyclotetramethylenetetranitramine	1,300 mg/r
98-95-3 nitrobenzene	200 ppm
121-82-4 perhydro-1,3,5-trinitro-1,3,5-triazine	160 mg/m³
99-35-4 1,3,5-trinitrobenzene	54 mg/m ³
479-45-8 N-methyl-N,2,4,6-tetranitroaniline	1,300 mg/r
99-08-1 3-nitrotoluene	200 ppm
99-99-0 4-nitrotoluene	200 ppm
118-96-7 2,4,6-trinitrotoluene	1,000 mg/r
88-72-2 2-nitrotoluene	200 ppm

7 Handling and storage

- · Handling:
- · Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

· Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:

Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

· Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters

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COMD	onents v	VILII IIIII	ii vaiues	шаі	i cuun c	IIIVIIIIUVI III	2 at 1111	5 WULKBIACE.

75-05-8 acetonitrile

PEL	Long-term value: 70 mg/m³, 40 ppm
REL	Long-term value: 34 mg/m³, 20 ppm

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TLV	Long-term value: 34 mg/m³, 20 ppm Skin
	5-3 nitrobenzene
PEL	Long-term value: 5 mg/m³, 1 ppm Skin
REL	Long-term value: 5 mg/m³, 1 ppm Skin
TLV	Long-term value: 5 mg/m³, 1 ppm Skin; BEIm
88-72	2-2 2-nitrotoluene
PEL	Long-term value: 30 mg/m³, 5 ppm Skin
REL	Long-term value: 11 mg/m³, 2 ppm Skin
TLV	Long-term value: 11 mg/m³, 2 ppm Skin; BEI-M
·Ingre	edients with biological limit values:
98-95	5-3 nitrobenzene
BEI	5 mg/g creatinine
	Medium: urine
	Time: end of shift at end of workweek
	Parameter: Total p-nitrophenol (nonspecific)
	1.5 % of hemoglobin
	Medium: blood
	Time: end of shift
	Parameter: Methemoglobin (background, nonspecific, semi-quantitative)
	2-2 2-nitrotoluene
BEI	1.5 % of hemoglobin
	Medium: blood
	Time: during or end of shift
	Parameter: Methemoglobin (background, nonspecific, semi-quantitative)

- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

· Breathing equipment:

When used as intended with Agilent instruments, the use of the product under normal laboratory conditions and with standard practices does not result in significant airborne exposures and therefore respiratory protection is not needed

Under an emergency condition where a respirator is deemed necessary, use a NIOSH or equivalent approved device/equipment with appropriate organic or acid gas cartridge.

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· Protection of hands:

Although not recommended for constant contact with the chemicals or for clean-up, nitrile gloves 11-13 mil thickness are recommended for normal use. The breakthrough time is 1 hr. For cleaning a spill where there is direct contact of the chemical, butyl rubber gloves are recommended 12-15 mil thickness with breakthrough times exceeding 4 hrs. Supplier recommendations should be followed.

· Material of gloves

For normal use: nitrile rubber, 11-13 mil thickness

For direct contact with the chemical: butyl rubber, 12-15 mil thickness

$\cdot \ Penetration \ time \ of \ glove \ material$

For normal use: nitrile rubber: 1 hour

For direct contact with the chemical: butyl rubber: >4 hours

· Eye protection:



Tightly sealed goggles

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9 Physical	and	C	nemica	nro	nerfies

· Information on basic physical and c	hemical properties
· General Information	
· Appearance:	
Form:	Fluid
Color:	Colorless
Odor:	Aromatic
· Odor threshold:	Not determined.
· pH-value:	Not determined.
· Change in condition	
Melting point/Melting range:	-46 °C (-50.8 °F)
Boiling point/Boiling range:	81 °C (177.8 °F)
· Flash point:	2 °C (35.6 °F)
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	525 °C (977 °F)
Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· Explosion limits:	
Lower:	4.4 Vol %
Upper:	16 Vol %
· Vapor pressure at 20 °C (68 °F):	0 hPa (0 mm Hg)
· Density at 20 °C (68 °F):	0.786 g/cm ³ (6.55917 lbs/gal)
· Relative density	Not determined.
· Vapor density	Not determined.
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· Evaporation rate	Not determined.
· Solubility in / Miscibility witl	h
Water:	Not miscible or difficult to mix.
· Partition coefficient (n-octan	ol/water): Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
VOC content:	0.00 %
	0.0 g/l / 0.00 lb/gal
Solids content:	0.5 %
Other information	No further relevant information available.

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

· Information on toxicological effects

· Acute tox		cological effects
· LD/LC50	values tha	t are relevant for classification:
ATE (Acu	ite Toxicit	y Estimate)
Oral	LD50	944 mg/kg
Dermal	LD50	>959 mg/kg
Inhalative	LC50/4 h	100 mg/L
75-05-8 ac	etonitrile	
Oral	LD50	1,320 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)
Inhalative	LC50/4 h	3,587 mg/L (mouse)
99-65-0 1,	3-dinitrob	enzene
Oral	LD50	83 mg/kg (rat)
121-14-2	2,4-dinitro	toluene
Oral	LD50	268 mg/kg (rat)
606-20-2	2,6-dinitro	toluene
Oral	LD50	177 mg/kg (rat)
		(Contd. on page 9)



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		(Contd. of page 8)				
98-95-3 ni	98-95-3 nitrobenzene					
Oral	LD50	390 mg/kg (rat)				
Dermal	LD50	2,100 mg/kg (rat)				
Inhalative	LC50/4 h	556 mg/L (rat)				
99-35-4 1,	3,5-trinitr	obenzene				
Oral	LD50	275 mg/kg (rat)				
88-72-2 2-	88-72-2 2-nitrotoluene					
Oral	LD50	891 mg/kg (rat)				

- Primary irritant effect:
- on the skin: No irritant effect.
- · on the eye: Irritating effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Toxic

Harmful

Irritant

The product can cause inheritable damage.

· Carcinogenic categories

· IARC (In	ternational Agency for Research on Cancer)						
121-14-2	4-dinitrotoluene 2B						
606-20-2	2,6-dinitrotoluene	2B					
98-95-3	nitrobenzene	2B					
99-08-1	3-nitrotoluene	3					
	0 4-nitrotoluene						
118-96-7	6-7 2,4,6-trinitrotoluene						
88-72-2	2-nitrotoluene 2.						
· NTP (Na	tional Toxicology Program)						
98-95-3 r	nitrobenzene	R					
88-72-2	88-72-2 2-nitrotoluene R						
OSHA-C	a (Occupational Safety & Health Administration)						
None of the	ne ingredients is listed.						

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes:

Water hazard class 3 (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

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Danger to drinking water if even extremely small quantities leak into the ground.

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

14 Transport information

· Not Regulated, De minimus Quantities	=	
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- · UN-Number
- · **DOT**, **IMDG**, **IATA** UN1648
- · UN proper shipping name

• DOT Acetonitrile solution
• IMDG, IATA ACETONITRILE solution

- · Transport hazard class(es)
- · DOT, IMDG, IATA



· Class 3 Flammable liquid

· Label

· Packing group

· DOT, IMDG, IATA

• Environmental hazards: Not applicable.

· Special precautions for user Warning: Flammable liquids

3

· Danger code (Kemler): 33

• EMS Number: F-E,S-D
• Stowage Category B

· Stowage Code SW2 Clear of living quarters.

· Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code Not applicable.

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· Transport/Additional information:

· DOT

• Quantity limitations On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L

· IMDG

Limited quantities (LQ)Excepted quantities (EQ)Code: E2

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml

· UN "Model Regulation": UN 1648 ACETONITRILE SOLUTION, 3, II

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- ·Sara
- · Section 355 (extremely hazardous substances):

98-95-3 nitrobenzene

· Section 313 (Specific toxic chemical listings):

75-05-8 acetonitrile

99-65-0 1,3-dinitrobenzene

121-14-2 2,4-dinitrotoluene

606-20-2 2,6-dinitrotoluene

98-95-3 nitrobenzene

88-72-2 2-nitrotoluene

· TSCA (Toxic Substances Control Act):

75-05-8 acetonitrile

99-65-0 1,3-dinitrobenzene

121-14-2 2,4-dinitrotoluene

606-20-2 2,6-dinitrotoluene

2691-41-0 cyclotetramethylenetetranitramine

98-95-3 nitrobenzene

121-82-4 perhydro-1,3,5-trinitro-1,3,5-triazine

99-35-4 1,3,5-trinitrobenzene

479-45-8 N-methyl-N,2,4,6-tetranitroaniline

99-08-1 3-nitrotoluene

99-99-0 4-nitrotoluene

118-96-7 2,4,6-trinitrotoluene

88-72-2 2-nitrotoluene

· Proposition 65

· Chemicals known to cause cancer:

121-14-2 2,4-dinitrotoluene

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606-20-2 2,6-dinitrotoluene	
98-95-3 nitrobenzene	
118-96-7 2,4,6-trinitrotoluene	
88-72-2 2-nitrotoluene	
· Chemicals known to cause reproductive toxicity for females:	
None of the ingredients is listed.	
· Chemicals known to cause reproductive toxicity for males:	
99-65-0 1,3-dinitrobenzene	
121-14-2 2,4-dinitrotoluene	
606-20-2 2,6-dinitrotoluene	
98-95-3 nitrobenzene	
· Chemicals known to cause developmental toxicity:	
None of the ingredients is listed.	
· Carcinogenic categories	
· EPA (Environmental Protection Agency)	
75-05-8 acetonitrile	CBD, D
99-65-0 1,3-dinitrobenzene	D
2691-41-0 cyclotetramethylenetetranitramine	D
98-95-3 nitrobenzene	L
121-82-4 perhydro-1,3,5-trinitro-1,3,5-triazine	С
118-96-7 2,4,6-trinitrotoluene	С

· TLV (Threshold Limit Value established by ACGIH)

75-05-8	acetonitrile	A4
98-95-3	nitrobenzene	A3
121-82-4	perhydro-1,3,5-trinitro-1,3,5-triazine	A4

· NIOSH-Ca (National Institute for Occupational Safety and Health)

121-14-2 2,4-dinitrotoluene

- · National regulations:
- · Additional classification according to Decree on Hazardous Materials:

Carcinogenic hazardous material group III (dangerous).

· Information about limitation of use:

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

The information contained in this document is based on Agilent's state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.

- · Department issuing SDS: Document Control / Regulatory
- · Contact: regulatory@ultrasci.com
- · Date of preparation / last revision 03/29/2019 / 2

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· Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Flam. Liq. 2: Flammable liquids – Category 2

Acute Tox. 4: Acute toxicity - Category 4

Acute Tox. 3: Acute toxicity – Category 3

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

Muta. 1B: Germ cell mutagenicity - Category 1B

Carc. 1B: Carcinogenicity - Category 1B

Repr. 1B: Reproductive toxicity - Category 1B

* Data compared to the previous version altered.

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