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1 Identification
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Agilent

- · Product identifier
- · Trade name: Working Standard (10 mL)
- · Part number: US-700003093-4
- · 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



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



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



Signal word Danger
Hazard statements
Highly flammable liquid and vapor.
Causes serious eye irritation.
Precautionary statements
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.
Wear protective gloves/protective clothing/eye protection/face protection.

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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 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.

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

- · Classification system:
- NFPA ratings (scale 0 4)



#### · HMIS-ratings (scale 0 - 4)

HEALTH	2	Health = 2
FIRE	3	Fire = 3
REACTIVITY	0	Reactivity $= 0$

- · 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

### **4 First-aid measures**

- · Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Immediately rinse with water.
- · After eye contact:
- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- · After swallowing: If symptoms persist consult 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.

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#### **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.

#### **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

• <b>PAC-1</b> :		
75-05-8	acetonitrile	13 ppm
56-75-7	chloramphenicol	1.5 mg/m <sup>3</sup>
· PAC-2:		
75-05-8	acetonitrile	50 ppm
56-75-7	chloramphenicol	10 mg/m <sup>3</sup>
· PAC-3:		
75-05-8	acetonitrile	150 ppm
56-75-7	chloramphenicol	500 mg/m <sup>3</sup>

### 7 Handling and storage

- · Handling:
- · Precautions for safe handling No special precautions are necessary if used correctly.
- <sup>•</sup> Information about protection against explosions and fires:
- Keep ignition sources away Do not smoke.
- Protect against electrostatic charges.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- $\cdot$  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.

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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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#### · Components with limit values that require monitoring at the workplace:

#### 75-05-8 acetonitrile

PEL Long-term value: 70 mg/m<sup>3</sup>, 40 ppm

REL Long-term value: 34 mg/m<sup>3</sup>, 20 ppm

TLV Long-term value: 34 mg/m<sup>3</sup>, 20 ppm

### Skin

· 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.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

#### <sup>•</sup> 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.

#### 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

#### · 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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Fluid According to product specification Characteristic Not determined. Not determined. Undetermined. 81 °C (177.8 °F) 2 °C (35.6 °F) Not applicable. 525 °C (977 °F)
According to product specification Characteristic Not determined. Not determined. Undetermined. 81 °C (177.8 °F) 2 °C (35.6 °F) Not applicable. 525 °C (977 °F)
According to product specification Characteristic Not determined. Not determined. 81 °C (177.8 °F) 2 °C (35.6 °F) Not applicable. 525 °C (977 °F)
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Characteristic Not determined. Not determined. 81 °C (177.8 °F) 2 °C (35.6 °F) Not applicable. 525 °C (977 °F)
Not determined.         81 °C (177.8 °F)         2 °C (35.6 °F)         Not applicable.         525 °C (977 °F)
Undetermined. 81 °C (177.8 °F) 2 °C (35.6 °F) Not applicable. 525 °C (977 °F)
81 °C (177.8 °F) 2 °C (35.6 °F) Not applicable. 525 °C (977 °F)
81 °C (177.8 °F) 2 °C (35.6 °F) Not applicable. 525 °C (977 °F)
2 °C (35.6 °F) Not applicable. 525 °C (977 °F)
Not applicable. 525 °C (977 °F)
525 °C (977 °F)
Not determined.
Product is not selfigniting.
Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
4.4 Vol %
16 Vol %
23 hPa (17.3 mm Hg)
Not determined.
Not determined.
Not determined.
Not determined.
Not miscible or difficult to mix.
Not determined.
Not determined.
Not determined.
56.0 %
0.00 %
0.0 g/l / 0.00 lb/gal No further relevant information available.

# **10 Stability and reactivity**

· Reactivity No further relevant information available.

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· 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 toxicity:

#### · LD/LC50 values that are relevant for classification:

### ATE (Acute Toxicity Estimate)

OralLD502,999 mg/kg (rat)DermalLD50>4,545 mg/kg (rabbit)

Inhalative LC50/4 h 8,151 mg/L (mouse)

### 75-05-8 acetonitrile

Oral	LD50	1,320 mg/kg (rat)
	LD50	>2,000 mg/kg (rabbit)
Inhalative	LC50/4 h	3,587 mg/L (mouse)

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: Irritant

#### · Carcinogenic categories

· IARC (I	nternational Agency for Research on Cancer)	
	reserpine	3
56-75-7	chloramphenicol	2A
· NTP (N	ational Toxicology Program)	
50-55-5	reserpine	R
56-75-7	chloramphenicol	R
· OSHA-	Ca (Occupational Safety & Health Administration)	
None of	the 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.

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#### · Additional ecological information:

· General notes:

Water hazard class 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

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

- $\cdot$  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.

· UN-Number · DOT, IMDG, IATA	UN1648	
· UN proper shipping name		
DOT	Acetonitrile mixture	
· IMDG, IATA	ACETONITRILE mixture	
· Transport hazard class(es)		
· DOT, IMDG, IATA		
· Class	3 Flammable liquids	
· Label	3	
· Packing group		
· DOT, IMDG, IATA	II	
· Environmental hazards:	Not applicable.	
· Special precautions for user	Warning: Flammable liquids	
· Danger code (Kemler):	33	
· EMS Number:	F-E,S-D	
· Stowage Category	В	
· Stowage Code	SW2 Clear of living quarters.	
· Transport in bulk according to Anno	ex II of	
MARPOL73/78 and the IBC Code	Not applicable.	



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passenger aircraft/rail: 5 L
cargo aircraft only: 60 L
le: E2
kimum net quantity per inner packaging: 30 ml
kimum net quantity per outer packaging: 500 ml
1648 ACETONITRILE MIXTURE, 3, II

# **15 Regulatory information**

 $\cdot$  Safety, health and environmental regulations/legislation specific for the substance or mixture  $\cdot$  Sara

· Section 355 (extremely hazardous substances):	
None of the ingredients is listed.	
· Section 313 (Specific toxic chemical listings):	
75-05-8 acetonitrile	
TSCA (Toxic Substances Control Act):	
All ingredients are listed.	
· Proposition 65	
· Chemicals known to cause cancer:	
50-55-5 reserpine	
· Chemicals known to cause reproductive toxicity for females:	
None of the ingredients is listed.	
· Chemicals known to cause reproductive toxicity for males:	
None of the ingredients is listed.	
· Chemicals known to cause developmental toxicity:	
None of the ingredients is listed.	
· Carcinogenic categories	
· EPA (Environmental Protection Agency)	
75-05-8 acetonitrile C.	BD, D
· TLV (Threshold Limit Value established by ACGIH)	
75-05-8 acetonitrile	A4
NIOSH-Ca (National Institute for Occupational Safety and Health)	
None of the ingredients is listed.	
· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.	
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### **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 03/30/2019 / 1 · 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 Flam. Liq. 2: Flammable liquids - Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A • \* Data compared to the previous version altered.



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