

Revision date 08/23/2024

1 Identification

· Product identifier

· Product Name: Bifenazate Standard (1X1 mL)

· Part number: PST-3690A1000

· 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

Flammable Liquids 2 H225 Highly flammable liquid and vapor.



GHS07

Acute Toxicity - Oral 4 H302 Harmful if swallowed.

Eye Irritation 2A H319 Causes serious eye irritation.

Sensitization - Skin 1 H317 May cause an allergic skin reaction.

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





GHS02

GHS07

- · Signal word Danger
- $\cdot \ Hazard\text{-}determining \ components \ of \ labeling:$

acetonitrile

bifenazate

· Hazard statements

H225 Highly flammable liquid and vapor.

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

 $\cdot \ Precautionary \ statements$

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

(Contd. on page 2)



Printing date 08/23/2024 Revision date 08/23/2024

Product Name: Bifenazate Standard (1X1 mL)

(Contd. of page 1) Use explosion-proof electrical/ventilating/lighting/equipment. P241 P261 Avoid breathing dust/fume/gas/mist/vapors/spray P280 Wear protective gloves/protective clothing/eye protection/face protection. Ground/bond container and receiving equipment. P240 P233 Keep container tightly closed. Use only non-sparking tools. P242 Take precautionary measures against static discharge. P243 Wash thoroughly after handling. P264 P270 Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace. P272 P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P321 Specific treatment (see on this label). P301+P312 If swallowed: Call a poison center/doctor if you feel unwell. Wash contaminated clothing before reuse. P363 If skin irritation or rash occurs: Get medical advice/attention. P333+P313 P337+P313 If eye irritation persists: Get medical advice/attention. P330 Rinse mouth. P370+P378 In case of fire: Use CO2, powder or water spray to extinguish. P403+P235 Store in a well-ventilated place. Keep cool. P501 Dispose of contents/container in accordance with local/regional/national/international · Classification system:

- · NFPA ratings (scale 0 4)



Health = 2Fire = 3Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = 2Fire = 3

- · 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 co	omponents:	
75-05-8	acetonitrile	99.8728%
149877-41-8	bifenazate	0.1272%



Printing date 08/23/2024 Revision date 08/23/2024

Product Name: Bifenazate Standard (1X1 mL)

(Contd. of page 2)

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.

· After inhalation:

Supply fresh air and to be sure call for a doctor.

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.

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 section 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

110000	The faction of the fact of chemicals	
· PAC-1:		
75-05-8	acetonitrile	13 ppm
· PAC-2:		
75-05-8	acetonitrile	50 ppm
	(Contd	. on page 4)



Printing date 08/23/2024 Revision date 08/23/2024

Product Name: Bifenazate Standard (1X1 mL)

(Contd. of page 3)

· **PAC-3**:

75-05-8 acetonitrile

150 ppm

7 Handling and storage

- · Handling:
- · Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

· 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:
- · 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 section 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituent has no known exposure limits.

75-05-8 acetonitrile

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

TLV Long-term value: 20 ppm Skin, A4

· 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.

· 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 (Contd. on page 5)

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Printing date 08/23/2024 Revision date 08/23/2024

Product Name: Bifenazate Standard (1X1 mL)

(Contd. of page 4)

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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· Information o	n basic	nhysical	and	chemical	properties
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· General Information

· Appearance:

Form: Fluid
Color: Colorless
Odor: Aromatic
Odor threshold: Not determined.

· pH-value:

· Change in condition

Melting point/Melting range: $-46 \,^{\circ}\text{C} \, (-50.8 \,^{\circ}\text{F})$ Boiling point/Boiling range: $81 \,^{\circ}\text{C} \, (177.8 \,^{\circ}\text{F})$

• Flash point: $2 \, ^{\circ}\text{C} (35.6 \, ^{\circ}\text{F})$

• Flammability (solid, gaseous): Highly flammable. • Auto igniting: 525 °C (977 °F)

· Decomposition temperature: Not determined.

• **Ignition temperature:** Product is not selfigniting.

• **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

Not determined.

· Explosion limits:

Lower: 4.4 Vol % **Upper:** 16 Vol %

· Vapor pressure at 20 °C (68 °F): 0 hPa

· Vapor pressure at 50 °C (122 °F): 330 hPa (247.5 mm Hg)

• **Density at 20 °C (68 °F):** 0.78667 g/cm³ (6.56476 lbs/gal)

(Contd. on page 6)



Printing date 08/23/2024 Revision date 08/23/2024

Product Name: Bifenazate Standard (1X1 mL)

		(Contd. of page
· Relative density	Not determined.	
· Vapor density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
Water:	Not miscible or difficult to mix.	
· Partition coefficient (n-octanol/w	rater): 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:	0.1 %	
· 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.

>2,000 mg/kg (rat)

- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

LD50

Inhalative LC50/4 h >4.4 mg/L (rat)

Dermal

· Information on toxicological effects

	· Acute toxicity:					
· LD/LC50	· LD/LC50 values that are relevant for classification:					
ATE (Acute Toxicity Estimate)						
Oral	LD50	1,322 mg/kg (rat)				
Dermal	LD50	>2,003 mg/kg (rabbit)				
Inhalative	LC50/4 h	3,592 mg/L (mouse)				
75-05-8 ac	75-05-8 acetonitrile					
Oral	LD50	1,320 mg/kg (rat)				
Dermal	LD50	>2,000 mg/kg (rabbit)				
Inhalative	LC50/4 h	3,587 mg/L (mouse)				
149877-41	149877-41-8 bifenazate					
Oral	LD50	>5,000 mg/kg (rat)				

(Contd. on page 7)



Printing date 08/23/2024 Revision date 08/23/2024

Product Name: Bifenazate Standard (1X1 mL)

(Contd. of page 6)

· Primary irritant effect:

· on the skin: No irritant effect.

- · on the eye: Irritating effect.
- · Sensitization: Sensitization possible through skin contact.
- · Additional toxicological information:

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

Harmful Irritant

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· 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.
- 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.

- · 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 minimis Quantities

(Contd. on page 8)



Printing date 08/23/2024 Revision date 08/23/2024

Product Name: Bifenazate Standard (1X1 mL)

UN-Number DOT, IMDG, IATA UN proper shipping name DOT IMDG, IATA ACETONITRILE Transport hazard class(es) DOT Class Label Class Ja Flammable liquids Label Ja Flammable liquids Label Label Ja Flammable liquids Label Ja Flammable liquids Label Label Ja Flammable liquids Label Ja Flammable liquids Label Ja Flammable liquids Label Label Label Ja Flammable liquids Label Label Label Ja Flammable liquids Label		(Contd. of page
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Transport hazard class(es) DOT Class Label 3 IMDG, IATA Class Label 3 IMDG, IATA Class Cot applicable. Cote C	·DOT	
Class 3 Flammable liquids 3 -IMDG, IATA Class 3 Flammable liquids - Class 3 Flammable liquids - Class 3 Flammable liquids - Label 3 - Packing group - DOT, IMDG, IATA II Environmental hazards: Not applicable. Special precautions for user Warning: Flammable liquids - Hazard identification number (Kemler code): 33 - EMS Number: F-E,S-D - Stowage Category B - Stowage Category B - Stowage Code SW2 Clear of living quarters. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code - Transport/Additional information: DOT - Quantity limitations On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L - IMDG - Limited quantities (LQ) - Excepted quantities (LQ) - Excepted quantities (EQ) - Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml	Transport hazard class(es)	
Label 3	- ' '	
Label 3	PLANAGE (13,00)	
• Class • Class • Label • Class • Label • Packing group • DOT, IMDG, IATA • Environmental hazards: • Not applicable. • Special precautions for user • Hazard identification number (Kemler code): 33 • EMS Number: • F-E,S-D • Stowage Category • Stowage Cade SW2 Clear of living quarters. • Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code • 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) Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml		3
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• DOT, IMDG, IATA • Environmental hazards: • Not applicable. • Special precautions for user • Hazard identification number (Kemler code): 33 • EMS Number: • Stowage Category • Stowage Code • Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code • 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) Excepted quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml		3
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• EMS Number: • Stowage Category • Stowage Code • SW2 Clear of living quarters. • Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code • 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) • Maximum net quantity per inner packaging: 30 ml • Maximum net quantity per outer packaging: 500 ml		
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Maximum net quantity per outer packaging: 500 ml	Excepted quantities (EQ)	
THE CONTROL ROUTINESS.	· UN "Model Regulation":	UN 1648 ACETONITRILE, 3, II



Printing date 08/23/2024 Revision date 08/23/2024

Product Name: Bifenazate Standard (1X1 mL)

(Contd. of page 8)

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.
- 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):

75-05-8 acetonitrile

ACTIVE

· Hazardous Air Pollutants

75-05-8 acetonitrile

- · Proposition 65
- · Chemicals known to cause cancer:

None of the ingredients is listed.

· 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

CBD, D

· TLV (Threshold Limit Value)

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.

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: pdl-acg-regulatory-cq@agilent.com
- · Date of preparation / last revision 08/23/2024 / 3
- · Abbreviations and acronyms:

ADR: Accord relatif au transport international 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

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

(Contd. on page 10)



Printing date 08/23/2024 Revision date 08/23/2024

Product Name: Bifenazate Standard (1X1 mL)

(Contd. of page 9)

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

Flammable Liquids 2: Flammable liquids – Category 2 Acute Toxicity - Oral 4: Acute toxicity – Category 4

Eye Irritation 2A: Serious eye damage/eye irritation - Category 2A

Sensitization - Skin 1: Skin sensitisation - Category 1

* * Data compared to the previous version altered.

US