

Safety Data Sheet

acc. to OSHA HCS

Revision date 08/23/2024

1 Identification

- **Product identifier**
- **Product Name:** Pesticides Matrix Spiking Standard (1X1 mL)
- **Part number:** CLP-200N-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

Flammable Liquids 2

H225 Highly flammable liquid and vapor.



GHS06 Skull and crossbones

Acute Toxicity - Inhalation 3

H331 Toxic if inhaled.



GHS08 Health hazard

Carcinogenicity 1A

H350 May cause cancer.

Specific Target Organ Toxicity - Single Exposure 1

H370 Causes damage to the central nervous system and the visual organs.



GHS07

Acute Toxicity - Oral 4

H302 Harmful if swallowed.

Acute Toxicity - Dermal 4

H312 Harmful in contact with skin.

Toxic to Reproduction - Effects on or via Lactation

H362 May cause harm to breast-fed children.

- **Label elements**

- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

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Product Name: Pesticides Matrix Spiking Standard (1X1 mL)

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· Hazard pictograms

· Signal word Danger
· Hazard-determining components of labeling:

methanol
DDT (common name not adopted by ISO)
dieldrin (ISO)
endrin (ISO)

· Hazard statements

H225 Highly flammable liquid and vapor.
H302+H312 Harmful if swallowed or in contact with skin.
H331 Toxic if inhaled.
H350 May cause cancer.
H362 May cause harm to breast-fed children.
H370 Causes damage to the central nervous system and the visual organs.

· Precautionary statements

P263 Avoid contact during pregnancy/while nursing.
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P241 Use explosion-proof electrical/ventilating/lighting/equipment.
P260 Do not breathe dusts or mists.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P240 Ground/bond container and receiving equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P264 Wash thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P321 Specific treatment (see on this label).
P301+P312 If swallowed: Call a poison center/doctor if you feel unwell.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P330 Rinse mouth.
P370+P378 In case of fire: Use CO2, powder or water spray to extinguish.
P362+P364 Take off contaminated clothing and wash it before reuse.
P405 Store locked up.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P403+P235 Store in a well-ventilated place. Keep cool.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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



- **HMIS-ratings (scale 0 - 4)**



- **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:

67-56-1	methanol	97.3453%
50-29-3	DDT (common name not adopted by ISO)	0.6321%
60-57-1	dieldrin (ISO)	0.6321%
72-20-8	endrin (ISO)	0.6321%
58-89-9	γ -HCH or γ -BHC	0.2528%
76-44-8	heptachlor (ISO)	0.2528%
309-00-2	aldrin (ISO)	0.2528%

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.
Remove breathing apparatus only after contaminated clothing have been completely removed.
In case of irregular breathing or respiratory arrest provide artificial respiration.
- **After inhalation:**
Supply fresh air or oxygen; call for 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. Then 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.

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- **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**
During heating or in case of fire poisonous gases are produced.
- **Advice for firefighters**
- **Protective equipment:** Mouth respiratory protective device.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Mount respiratory protective device.
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**

· PAC-1:

67-56-1	methanol	530 ppm
50-29-3	DDT (common name not adopted by ISO)	3 mg/m ³
60-57-1	dieldrin (ISO)	0.3 mg/m ³
72-20-8	endrin (ISO)	1.8 mg/m ³
58-89-9	γ -HCH or γ -BHC	9.1 mg/m ³
76-44-8	heptachlor (ISO)	0.15 mg/m ³
309-00-2	aldrin (ISO)	0.91 mg/m ³

· PAC-2:

67-56-1	methanol	2,100 ppm
50-29-3	DDT (common name not adopted by ISO)	34 mg/m ³
60-57-1	dieldrin (ISO)	6.8 mg/m ³
72-20-8	endrin (ISO)	20 mg/m ³
58-89-9	γ -HCH or γ -BHC	100 mg/m ³
76-44-8	heptachlor (ISO)	14 mg/m ³
309-00-2	aldrin (ISO)	10 mg/m ³

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· PAC-3:

67-56-1	methanol	7200* ppm
50-29-3	DDT (common name not adopted by ISO)	210 mg/m ³
60-57-1	dieldrin (ISO)	450 mg/m ³
72-20-8	endrin (ISO)	2,000 mg/m ³
58-89-9	γ -HCH or γ -BHC	1,000 mg/m ³
76-44-8	heptachlor (ISO)	700 mg/m ³
309-00-2	aldrin (ISO)	100 mg/m ³

7 Handling and storage

· Handling:
· Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

· 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 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 other constituents have no known exposure limits.

67-56-1 methanol

PEL	Long-term value: 260 mg/m ³ , 200 ppm
REL	Short-term value: 325 mg/m ³ , 250 ppm Long-term value: 260 mg/m ³ , 200 ppm Skin
TLV	Short-term value: 250 ppm Long-term value: 200 ppm Skin; BEIc

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Ingredients with biological limit values:
67-56-1 methanol

BEI	15 mg/L Medium: urine Time: end of shift Parameter: Methanol (background, nonspecific)
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· **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 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.

· **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

9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form: Fluid

Color: Colorless

· **Odor:** Alcohol-like

· **Odor threshold:** Not determined.

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· pH-value:	Not determined.
· Change in condition	
Melting point/Melting range:	-98 °C (-144.4 °F)
Boiling point/Boiling range:	64.7 °C (148.5 °F)
· Flash point:	9 °C (48.2 °F)
· Flammability (solid, gaseous):	Highly flammable.
· Auto igniting:	455 °C (851 °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.
· Explosion limits:	
Lower:	5.5 Vol %
Upper:	44 Vol %
· Vapor pressure at 20 °C (68 °F):	100 hPa (75 mm Hg)
· Density at 20 °C (68 °F):	0.81999 g/cm ³ (6.84282 lbs/gal)
· 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/water):	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	97.3 %
VOC content:	97.35 %
	798.2 g/l / 6.66 lb/gal
Solids content:	2.7 %
· 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.

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· **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)

Oral	LD50	400 mg/kg
Dermal	LD50	1,055 mg/kg
Inhalative	LC50/4 h	3.08 mg/L

67-56-1 methanol

Oral	LD50	5,628 mg/kg (rat)
Dermal	LD50	15,800 mg/kg (rabbit)

50-29-3 DDT (common name not adopted by ISO)

Oral	LD50	87 mg/kg (rat)
Dermal	LD50	2,510 mg/kg (rat)
		300 mg/kg (rabbit)

60-57-1 dieldrin (ISO)

Oral	LD50	38 mg/kg (mouse)
		38 mg/kg (rat)
Dermal	LD50	10 mg/kg (rat)
		250 mg/kg (rabbit)

72-20-8 endrin (ISO)

Oral	LD50	3 mg/kg (rat)
Dermal	LD50	60 mg/kg (rat)
		60 mg/kg (rabbit)

58-89-9 γ -HCH or γ -BHC

Oral	LD50	88 mg/kg (rat)
Dermal	LD50	900 mg/kg (rat)
Inhalative	LC50/4 h	1,560 mg/L (rat)

76-44-8 heptachlor (ISO)

Oral	LD50	40 mg/kg (rat)
Dermal	LD50	119 mg/kg (rat)

309-00-2 aldrin (ISO)

Oral	LD50	39 mg/kg (rat)
Dermal	LD50	98 mg/kg (rat)
		15 mg/kg (rabbit)

· **Primary irritant effect:**

· **on the skin:** No irritant effect.

· **on the eye:** No irritating effect.

· **Sensitization:** No sensitizing effects known.

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· Additional toxicological information:

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

Toxic
Harmful

· Carcinogenic categories
· IARC (International Agency for Research on Cancer)

50-29-3	DDT (common name not adopted by ISO)	2A
60-57-1	dieldrin (ISO)	2A
72-20-8	endrin (ISO)	3
58-89-9	γ -HCH or γ -BHC	1
76-44-8	heptachlor (ISO)	2B
309-00-2	aldrin (ISO)	2A

· NTP (National Toxicology Program)

50-29-3	DDT (common name not adopted by ISO)	R
58-89-9	γ -HCH or γ -BHC	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.

· 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.

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14 Transport information

· Not Regulated, De minimis Quantities

-

· UN-Number

· DOT, IMDG, IATA

UN1230

· UN proper shipping name

· DOT

· IMDG

· IATA

Methanol solution

METHANOL solution, MARINE POLLUTANT

METHANOL mixture

· Transport hazard class(es)

· DOT



· Class

3 Flammable liquids

· Label

3, 6.1

· IMDG



· Class

3 Flammable liquids

· Label

3/6.1

· IATA



· Class

3 Flammable liquids

· Label

3 (6.1)

· Packing group

· DOT, IMDG, IATA

II

· Environmental hazards:

· Marine pollutant:

Yes (DOT)

Symbol (fish and tree)

· Special precautions for user

Warning: Flammable liquids

· Hazard identification number (Kemler code): 336

· 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: 1 L

On cargo aircraft only: 60 L

· Remarks:

Special marking with the symbol (fish and tree).

· IMDG
· Limited quantities (LQ)

1L

· 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 1230 METHANOL SOLUTION, 3 (6.1), II,
ENVIRONMENTALLY HAZARDOUS

15 Regulatory information

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

72-20-8 endrin (ISO)

58-89-9 γ -HCH or γ -BHC

309-00-2 aldrin (ISO)

· Section 313 (Specific toxic chemical listings):

67-56-1 methanol

58-89-9 γ -HCH or γ -BHC

76-44-8 heptachlor (ISO)

309-00-2 aldrin (ISO)

· TSCA (Toxic Substances Control Act):

67-56-1 methanol

ACTIVE

50-29-3 DDT (common name not adopted by ISO)

ACTIVE

58-89-9 γ -HCH or γ -BHC

ACTIVE

· Hazardous Air Pollutants

67-56-1 methanol

58-89-9 γ -HCH or γ -BHC

76-44-8 heptachlor (ISO)

· Proposition 65
· Chemicals known to cause cancer:

50-29-3 DDT (common name not adopted by ISO)

60-57-1 dieldrin (ISO)

58-89-9 γ -HCH or γ -BHC

76-44-8 heptachlor (ISO)

309-00-2 aldrin (ISO)

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· Chemicals known to cause reproductive toxicity for females:

50-29-3 DDT (common name not adopted by ISO)

· Chemicals known to cause reproductive toxicity for males:

50-29-3 DDT (common name not adopted by ISO)

· Chemicals known to cause developmental toxicity:

67-56-1 methanol

50-29-3 DDT (common name not adopted by ISO)

72-20-8 endrin (ISO)

76-44-8 heptachlor (ISO)

· Carcinogenic categories
· EPA (Environmental Protection Agency)

50-29-3 DDT (common name not adopted by ISO)

B2

60-57-1 dieldrin (ISO)

B2

72-20-8 endrin (ISO)

D

76-44-8 heptachlor (ISO)

B2

309-00-2 aldrin (ISO)

B2

· TLV (Threshold Limit Value)

50-29-3 DDT (common name not adopted by ISO)

A3

60-57-1 dieldrin (ISO)

(A4)

72-20-8 endrin (ISO)

A4

58-89-9 γ -HCH or γ -BHC

A3

76-44-8 heptachlor (ISO)

A3

309-00-2 aldrin (ISO)

A3

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

50-29-3 DDT (common name not adopted by ISO)

60-57-1 dieldrin (ISO)

76-44-8 heptachlor (ISO)

309-00-2 aldrin (ISO)

· National regulations:
· 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: pdl-acg-regulatory-cq@agilent.com

· Date of preparation / last revision 08/23/2024 / 3

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· 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
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
Flammable Liquids 2: Flammable liquids – Category 2
Acute Toxicity - Oral 4: Acute toxicity – Category 4
Acute Toxicity - Inhalation 3: Acute toxicity – Category 3
Carcinogenicity 1A: Carcinogenicity – Category 1A
Toxic to Reproduction - Effects on or via Lactation: Reproductive toxicity – effects on or via lactation
Specific Target Organ Toxicity - Single Exposure 1: Specific target organ toxicity (single exposure) – Category 1

· * Data compared to the previous version altered.

US