

## Safety Data Sheet

acc. to OSHA HCS

Revision date: 04/30/2025

### 1 Identification

- **Product identifier**
- **Product Name: Custom Organic Standard (1 x 1 mL)**
- **Part no. :** CUS-00001986
- **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

Germ Cell Mutagenicity 1B

H340 May cause genetic defects.

Carcinogenicity 1B

H350 May cause cancer.

Toxic to Reproduction 1B

H360 May damage fertility or the unborn child.

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.

- **Label elements**

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

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**· Hazard pictograms**


GHS02    GHS06    GHS08

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

methanol  
nitrobenzene  
3,4-dinitrotoluene  
2-nitrotoluene

**· Hazard statements**

H225            Highly flammable liquid and vapor.  
H302+H312    Harmful if swallowed or in contact with skin.  
H331            Toxic if inhaled.  
H340            May cause genetic defects.  
H350            May cause cancer.  
H360            May damage fertility or the unborn child.  
H370            Causes damage to the central nervous system and the visual organs.

**· Precautionary statements**

P210            Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
P260            Do not breathe vapours.  
P241            Use explosion-proof electrical/ventilating/lighting/equipment.  
P280            Wear protective gloves / protective clothing.  
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.  
P308+P313    IF exposed or concerned: Get medical advice/attention.  
P301+P312    If swallowed: Call a poison center/doctor if you feel unwell.  
P321            Specific treatment (see on this label).  
P304+P340    IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P330            Rinse mouth.  
P370+P378    In case of fire: Use CO<sub>2</sub>, powder or water spray to extinguish.  
P362+P364    Take off contaminated clothing and wash it before reuse.  
P403+P233    Store in a well-ventilated place. Keep container tightly closed.  
P403+P235    Store in a well-ventilated place. Keep cool.  
P405            Store locked up.  
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	98.0498%
118-96-7	2,4,6-trinitrotoluene	0.1806%
88-72-2	2-nitrotoluene	0.1264%
88-73-3	1-chloro-2-nitrobenzene	0.1264%
97-00-7	1-chloro-2,4-dinitrobenzene	0.1264%
98-95-3	nitrobenzene	0.1264%
99-08-1	3-nitrotoluene	0.1264%
99-65-0	1,3-dinitrobenzene	0.1264%
99-99-0	4-nitrotoluene	0.1264%
100-00-5	1-chloro-4-nitrobenzene	0.1264%
100-25-4	1,4-dinitrobenzene	0.1264%
121-14-2	2,4-dinitrotoluene	0.1264%
121-73-3	1-chloro-3-nitrobenzene	0.1264%
528-29-0	1,2-dinitrobenzene	0.1264%
606-20-2	2,6-dinitrotoluene	0.1264%
610-39-9	3,4-dinitrotoluene	0.1264%

### 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.

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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.

· **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

### 5 Fire-fighting measures

· **Extinguishing media**

· **Suitable extinguishing agents:**

CO<sub>2</sub>, 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
118-96-7	2,4,6-trinitrotoluene	0.3 mg/m <sup>3</sup>
88-72-2	2-nitrotoluene	6 ppm
97-00-7	1-chloro-2,4-dinitrobenzene	1.6 mg/m <sup>3</sup>
98-95-3	nitrobenzene	3 ppm
99-08-1	3-nitrotoluene	6 ppm
99-65-0	1,3-dinitrobenzene	3 mg/m <sup>3</sup>
99-99-0	4-nitrotoluene	6 ppm

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100-00-5	1-chloro-4-nitrobenzene	1.9 mg/m <sup>3</sup>
121-14-2	2,4-dinitrotoluene	0.6 mg/m <sup>3</sup>
121-73-3	1-chloro-3-nitrobenzene	0.9 mg/m <sup>3</sup>
606-20-2	2,6-dinitrotoluene	0.6 mg/m <sup>3</sup>
610-39-9	3,4-dinitrotoluene	0.6 mg/m <sup>3</sup>

**· PAC-2:**

67-56-1	methanol	2,100 ppm
118-96-7	2,4,6-trinitrotoluene	17 mg/m <sup>3</sup>
88-72-2	2-nitrotoluene	33 ppm
97-00-7	1-chloro-2,4-dinitrobenzene	18 mg/m <sup>3</sup>
98-95-3	nitrobenzene	20 ppm
99-08-1	3-nitrotoluene	14 ppm
99-65-0	1,3-dinitrobenzene	33 mg/m <sup>3</sup>
99-99-0	4-nitrotoluene	33 ppm
100-00-5	1-chloro-4-nitrobenzene	170 mg/m <sup>3</sup>
121-14-2	2,4-dinitrotoluene	8.8 mg/m <sup>3</sup>
121-73-3	1-chloro-3-nitrobenzene	9.9 mg/m <sup>3</sup>
606-20-2	2,6-dinitrotoluene	47 mg/m <sup>3</sup>
610-39-9	3,4-dinitrotoluene	33 mg/m <sup>3</sup>

**· PAC-3:**

67-56-1	methanol	7200* ppm
118-96-7	2,4,6-trinitrotoluene	1,000 mg/m <sup>3</sup>
88-72-2	2-nitrotoluene	200 ppm
97-00-7	1-chloro-2,4-dinitrobenzene	150 mg/m <sup>3</sup>
98-95-3	nitrobenzene	200 ppm
99-08-1	3-nitrotoluene	200 ppm
99-65-0	1,3-dinitrobenzene	200 mg/m <sup>3</sup>
99-99-0	4-nitrotoluene	200 ppm
100-00-5	1-chloro-4-nitrobenzene	1,000 mg/m <sup>3</sup>
121-14-2	2,4-dinitrotoluene	53 mg/m <sup>3</sup>
121-73-3	1-chloro-3-nitrobenzene	59 mg/m <sup>3</sup>
606-20-2	2,6-dinitrotoluene	200 mg/m <sup>3</sup>
610-39-9	3,4-dinitrotoluene	200 mg/m <sup>3</sup>

## 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.

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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 constituents are the only constituents of the product which have 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 <sup>3</sup> , 200 ppm
REL	Short-term value: 325 mg/m <sup>3</sup> , 250 ppm Long-term value: 260 mg/m <sup>3</sup> , 200 ppm Skin
TLV	Short-term value: 250 ppm Long-term value: 200 ppm Skin; BEIc

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

PEL	Long-term value: 1.5 mg/m <sup>3</sup> Skin
REL	Long-term value: 0.5 mg/m <sup>3</sup> Skin
TLV	Long-term value: 0.1* mg/m <sup>3</sup> Skin; BEI-M; *inhalable fraction + vapor

**88-72-2 2-nitrotoluene**

PEL	Long-term value: 30 mg/m <sup>3</sup> , 5 ppm Skin
REL	Long-term value: 11 mg/m <sup>3</sup> , 2 ppm Skin
TLV	Long-term value: 2 ppm Skin; BEI-M

**98-95-3 nitrobenzene**

PEL	Long-term value: 5 mg/m <sup>3</sup> , 1 ppm Skin
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REL	Long-term value: 5 mg/m <sup>3</sup> , 1 ppm Skin
TLV	Long-term value: 1 ppm Skin; BEIm, A3
<b>99-08-1 3-nitrotoluene</b>	
PEL	Long-term value: 30 mg/m <sup>3</sup> , 5 ppm Skin
REL	Long-term value: 11 mg/m <sup>3</sup> , 2 ppm Skin
TLV	Long-term value: 2 ppm Skin; BEI-M
<b>99-65-0 1,3-dinitrobenzene</b>	
PEL	Long-term value: 1 mg/m <sup>3</sup> Skin
REL	Long-term value: 1 mg/m <sup>3</sup> Skin
TLV	Long-term value: 0.15* ppm *inh. fraction + vapor; Skin; BEI-M
<b>99-99-0 4-nitrotoluene</b>	
PEL	Long-term value: 30 mg/m <sup>3</sup> , 5 ppm Skin
REL	Long-term value: 11 mg/m <sup>3</sup> , 2 ppm Skin
TLV	Long-term value: 2 ppm Skin; BEI-M
<b>100-00-5 1-chloro-4-nitrobenzene</b>	
PEL	Long-term value: 1 mg/m <sup>3</sup> Skin
REL	Skin; See Pocket Guide App. A
TLV	Long-term value: 0.1 ppm Skin; BEI-M, A3
<b>100-25-4 1,4-dinitrobenzene</b>	
PEL	Long-term value: 1 mg/m <sup>3</sup> Skin
REL	Long-term value: 1 mg/m <sup>3</sup> Skin
TLV	Long-term value: 0.15* ppm *inh. fraction + vapor; Skin; BEI-M
<b>528-29-0 1,2-dinitrobenzene</b>	
PEL	Long-term value: 1 mg/m <sup>3</sup> Skin
REL	Long-term value: 1 mg/m <sup>3</sup> Skin
TLV	Long-term value: 0.15* ppm *inh. fraction + vapor; Skin; BEI-M

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

BEI	1.5 % of hemoglobin Medium: blood Time: during or end of shift Parameter: Methemoglobin (background, nonspecific, semi-quantitative)
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**88-72-2 2-nitrotoluene**

BEI	1.5 % of hemoglobin Medium: blood Time: during or end of shift Parameter: Methemoglobin (background, nonspecific, semi-quantitative)
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**98-95-3 nitrobenzene**

BEI	5 % of hemoglobin Medium: blood Time: during or end of shift Parameter: Methemoglobin (background, nonspecific,)
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**99-08-1 3-nitrotoluene**

BEI	1.5 % of hemoglobin Medium: blood Time: during or end of shift Parameter: Methemoglobin (background, nonspecific, semi-quantitative)
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**99-65-0 1,3-dinitrobenzene**

BEI	1.5 % of hemoglobin Medium: blood Time: during or end of shift Parameter: Methemoglobin (background, nonspecific, semi-quantitative)
-----	---

**99-99-0 4-nitrotoluene**

BEI	1.5 % of hemoglobin Medium: blood Time: during or end of shift Parameter: Methemoglobin (background, nonspecific, semi-quantitative)
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**100-00-5 1-chloro-4-nitrobenzene**

BEI	1.5 % of hemoglobin Medium: blood Time: during or end of shift Parameter: Methemoglobin (background, nonspecific, semi-quantitative)
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**100-25-4 1,4-dinitrobenzene**

BEI	1.5 % of hemoglobin Medium: blood Time: during or end of shift Parameter: Methemoglobin (background, nonspecific, semi-quantitative)
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**528-29-0 1,2-dinitrobenzene**

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.
  - Do not inhale gases / fumes / aerosols.
  - 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:** Liquid
  - Color:** Colorless
- **Odor:** Alcohol-like
- **Odor threshold:** Not determined.

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· <b>pH-value:</b>	Not determined.
· <b>Change in condition</b> <b>Melting point/Melting range:</b> <b>Boiling point/Boiling range:</b>	-98 °C (-144.4 °F) 64.7 °C (148.5 °F)
· <b>Flash point:</b>	9 °C (48.2 °F)
· <b>Flammability (solid, gaseous):</b>	Highly flammable.
· <b>Auto igniting:</b>	455 °C (851 °F)
· <b>Decomposition temperature:</b>	Not determined.
· <b>Ignition temperature:</b>	Product is not selfigniting.
· <b>Danger of explosion:</b>	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· <b>Explosion limits:</b> <b>Lower:</b> <b>Upper:</b>	5.5 Vol % 44 Vol %
· <b>Vapor pressure at 20 °C (68 °F):</b>	100 hPa (75 mm Hg)
· <b>Density at 20 °C (68 °F):</b> · <b>Relative density</b> · <b>Vapor density</b> · <b>Evaporation rate</b>	0.8114 g/cm <sup>3</sup> (6.77113 lbs/gal) Not determined. Not determined. Not determined.
· <b>Solubility in / Miscibility with</b> <b>Water:</b>	Not miscible or difficult to mix.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity:</b> <b>Dynamic:</b> <b>Kinematic:</b>	Not determined. Not determined.
· <b>Solvent content:</b> <b>Organic solvents:</b> <b>VOC content:</b>	98.0 % 98.05 % 795.6 g/l / 6.64 lb/gal
· <b>Solids content:</b>	1.6 %
· <b>Other information</b>	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	1,733 mg/kg
Dermal	LD50	1,189 mg/kg
Inhalative	LC50/4 h	2.13 mg/L

**67-56-1 methanol**

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

**88-72-2 2-nitrotoluene**

Oral	LD50	891 mg/kg (rat)
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**88-73-3 1-chloro-2-nitrobenzene**

Oral	LD50	268 mg/kg (rat)
Dermal	LD50	400 mg/kg (rabbit)

**97-00-7 1-chloro-2,4-dinitrobenzene**

Oral	LD50	640 mg/kg (rat)
Dermal	LD50	130 mg/kg (rabbit)

**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)

**99-08-1 3-nitrotoluene**

Oral	LD50	1,072 mg/kg (rat)
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**99-65-0 1,3-dinitrobenzene**

Oral	LD50	83 mg/kg (rat)
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**99-99-0 4-nitrotoluene**

Oral	LD50	1,960 mg/kg (rat)
Dermal	LD50	>16,000 mg/kg (rat)

**100-00-5 1-chloro-4-nitrobenzene**

Oral	LD50	420 mg/kg (rat)
Dermal	LD50	16,000 mg/kg (rat)

**121-14-2 2,4-dinitrotoluene**

Oral	LD50	268 mg/kg (rat)
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**121-73-3 1-chloro-3-nitrobenzene**

Oral	LD50	420 mg/kg (rat)
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**606-20-2 2,6-dinitrotoluene**

Oral	LD50	177 mg/kg (rat)
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- **Primary irritant effect:**

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

- **on the eye:** No 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

The product can cause inheritable damage.

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

118-96-7	2,4,6-trinitrotoluene	3
88-72-2	2-nitrotoluene	2A
88-73-3	1-chloro-2-nitrobenzene	2B
98-95-3	nitrobenzene	2B
99-08-1	3-nitrotoluene	3
99-99-0	4-nitrotoluene	3
100-00-5	1-chloro-4-nitrobenzene	2B
121-14-2	2,4-dinitrotoluene	2B
121-73-3	1-chloro-3-nitrobenzene	3
606-20-2	2,6-dinitrotoluene	2B

- **NTP (National Toxicology Program)**

88-72-2	2-nitrotoluene	R
98-95-3	nitrobenzene	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 3 (Self-assessment): extremely hazardous for water

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

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.

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acc. to OSHA HCS

Printing date: 04/30/2025

Revision date: 04/30/2025

**Product Name: Custom Organic Standard (1 x 1 mL)**

 · **Other adverse effects** No further relevant information available.

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### 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** -

 · **UN-Number**  
 · **DOT, IMDG, IATA** UN1230

 · **UN proper shipping name**  
 · **DOT** Methanol  
 · **IMDG, IATA** METHANOL

 · **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:** Not applicable.

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**Product Name: Custom Organic Standard (1 x 1 mL)**

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· <b>Special precautions for user</b>	Warning: Flammable liquids
· <b>Hazard identification number (Kemler code):</b>	336
· <b>EMS Number:</b>	F-E,S-D
· <b>Stowage Category</b>	B
· <b>Stowage Code</b>	SW2 Clear of living quarters.
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>DOT</b>	
· <b>Quantity limitations</b>	On passenger aircraft/rail: 1 L On cargo aircraft only: 60 L
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	1L
· <b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· <b>UN "Model Regulation":</b>	UN 1230 METHANOL, 3 (6.1), 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
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**· Section 313 (Specific toxic chemical listings):**

67-56-1	methanol
88-72-2	2-nitrotoluene
98-95-3	nitrobenzene
99-65-0	1,3-dinitrobenzene
100-25-4	1,4-dinitrobenzene
121-14-2	2,4-dinitrotoluene
528-29-0	1,2-dinitrobenzene
606-20-2	2,6-dinitrotoluene

**· TSCA (Toxic Substances Control Act):**

67-56-1	methanol	ACTIVE
118-96-7	2,4,6-trinitrotoluene	ACTIVE
88-72-2	2-nitrotoluene	ACTIVE
88-73-3	1-chloro-2-nitrobenzene	ACTIVE
97-00-7	1-chloro-2,4-dinitrobenzene	ACTIVE
98-95-3	nitrobenzene	ACTIVE
99-08-1	3-nitrotoluene	ACTIVE
99-65-0	1,3-dinitrobenzene	ACTIVE

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**Product Name: Custom Organic Standard (1 x 1 mL)**

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99-99-0	4-nitrotoluene	ACTIVE
100-00-5	1-chloro-4-nitrobenzene	ACTIVE
100-25-4	1,4-dinitrobenzene	ACTIVE
121-14-2	2,4-dinitrotoluene	ACTIVE
121-73-3	1-chloro-3-nitrobenzene	ACTIVE
606-20-2	2,6-dinitrotoluene	ACTIVE
610-39-9	3,4-dinitrotoluene	ACTIVE

**· Hazardous Air Pollutants**

67-56-1	methanol
98-95-3	nitrobenzene
121-14-2	2,4-dinitrotoluene

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

118-96-7	2,4,6-trinitrotoluene
88-72-2	2-nitrotoluene
88-73-3	1-chloro-2-nitrobenzene
98-95-3	nitrobenzene
100-00-5	1-chloro-4-nitrobenzene
121-14-2	2,4-dinitrotoluene
606-20-2	2,6-dinitrotoluene

**· Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

**· Chemicals known to cause reproductive toxicity for males:**

98-95-3	nitrobenzene
99-65-0	1,3-dinitrobenzene
100-25-4	1,4-dinitrobenzene
121-14-2	2,4-dinitrotoluene
528-29-0	1,2-dinitrobenzene
606-20-2	2,6-dinitrotoluene

**· Chemicals known to cause developmental toxicity:**

67-56-1	methanol
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**· Carcinogenic categories**
**· EPA (Environmental Protection Agency)**

118-96-7	2,4,6-trinitrotoluene	C
98-95-3	nitrobenzene	L
99-65-0	1,3-dinitrobenzene	D
100-25-4	1,4-dinitrobenzene	D
528-29-0	1,2-dinitrobenzene	D

**· TLV (Threshold Limit Value)**

98-95-3	nitrobenzene	A3
100-00-5	1-chloro-4-nitrobenzene	A3

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

100-00-5 | 1-chloro-4-nitrobenzene

· **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.

· **Contact:**· **Date of preparation / last revision** 04/30/2025 / 2· **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 &amp; 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

Germ Cell Mutagenicity 1B: Germ cell mutagenicity – Category 1B

Carcinogenicity 1B: Carcinogenicity – Category 1B

Toxic to Reproduction 1B: Reproductive toxicity – Category 1B

Specific Target Organ Toxicity - Single Exposure 1: Specific target organ toxicity (single exposure) – Category 1

· **\* Data compared to the previous version altered.**