# Safety Data Sheet
**acc. to OSHA HCS**

Revision date: 07/01/2026

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## 1 Identification

· **Product identifier**

· **Product Name: Unleaded Gasoline Standard (Unweathered) (1X1 mL)**

· **Part no. :** RGO-601-1
· **Application of the substance / the mixture**
For Research and Development Only. 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

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## 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 - oral 3 | H301 Toxic if swallowed. |
| Acute toxicity - dermal 3 | H311 Toxic in contact with skin. |
| Acute toxicity - inhalation 3 | H331 Toxic if inhaled. |

GHS08 Health hazard

| | |
|---|---|
| Germ cell mutagenicity 1B | H340 May cause genetic defects. |
| Carcinogenicity 2 | H351 Suspected of causing cancer. |
| Specific target organ toxicity (single exposure) 1 | H370 Causes damage to the central nervous system and the visual organs. |

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

GHS02 GHS06 GHS08

· **Signal word** Danger

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**Product Name: Unleaded Gasoline Standard (Unweathered) (1X1 mL)**

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· **Hazard-determining components of labeling:**
methanol
Gasoline, natural

· **Hazard statements**

| | |
|---|---|
| H225 | Highly flammable liquid and vapor. |
| H301+H311+H331 | Toxic if swallowed, in contact with skin or if inhaled. |
| H340 | May cause genetic defects. |
| H351 | Suspected of causing cancer. |
| H370 | Causes damage to the central nervous system and the visual organs. |

· **Precautionary statements**

| | |
|---|---|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P260 | Do not breathe vapors. |
| P241 | Use explosion-proof [electrical/ventilating/lighting] equipment. |
| P280 | Wear protective gloves / protective clothing. |
| P240 | Ground / bond container and receiving equipment. |
| P242 | Use non-sparking tools. |
| P243 | Take action to prevent 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. |
| P301+P310 | If swallowed: Immediately call a poison center/doctor. |
| P308+P313 | IF exposed or concerned: Get medical advice/attention. |
| P321 | Specific treatment (see on this label). |
| P304+P340 | If inhaled: Remove person to fresh air and keep comfortable for breathing. |
| P312 | Call a poison center/doctor if you feel unwell. |
| P303+P361+P353 | If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. |
| P330 | Rinse mouth. |
| P370+P378 | In case of fire: Use CO2, powder or water spray to extinguish. |
| P361+P364 | Take off immediately all 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. |

· **Information pertaining to particular dangers for man and environment:**
· **Classification system:**
· **NFPA ratings (scale 0 - 4)**

Health = 2
Fire = 3
Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**

Health = *2
Fire = 3
Reactivity = 0

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· **Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable
· **vPvB:** Not applicable
· **Classification according to (d)(1)(ii) of § 1910.1200**
The SDS issuer does not object to the classifications provided by importers or manufacturers of precursor products.
· **Hazards not otherwise classified**
There are no adverse physical or health effects known that are not covered by the hazard classes of the Hazard Communications Standard.

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## 3 Composition/information on ingredients

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

| · **Dangerous components:** | | |
|---|---|---|
| 67-56-1 | methanol | 99.3679% |
| 8006-61-9 | Gasoline, natural | 0.6321% |

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## 4 First-aid measures

· **Description of first aid measures**
· **General information:**
Immediately remove any clothing soiled by the product.
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:** Do not induce vomiting; immediately call for medical help.
· **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.
· **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.



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## 6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures**
Mount respiratory protective device.
Wear protective equipment. Keep unprotected persons away.
· **Environmental precautions:**
Dilute with plenty of water.
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.
· **Protective Action Criteria for Chemicals**

| · **PAC-1:** | | |
|---|---|---|
| 67-56-1 | methanol | 530 ppm |

| · **PAC-2:** | | |
|---|---|---|
| 67-56-1 | methanol | 2100 ppm |

| · **PAC-3:** | | |
|---|---|---|
| 67-56-1 | methanol | 7200 ppm |

· **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.

## 7 Handling and storage

· **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.



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## 8 Exposure controls/personal protection

· **Control parameters**

| · **Components with limit values that require monitoring at the workplace:** | |
|---|---|
| **67-56-1 methanol** | |
| PEL | Long-term value: 260 mg/m³, 200 ppm |
| REL | Short-term value: 325 mg/m³, 250 ppm<br>Long-term value: 260 mg/m³, 200 ppm<br>Skin |
| TLV | Short-term value: 328 mg/m³, 250 ppm<br>Long-term value: 262 mg/m³, 200 ppm<br>Skin; BEI-C |
| **8006-61-9 Gasoline, natural** | |
| REL | See Pocket Guide App. A |
| TLV | Short-term value: 1480 mg/m³, 500 ppm<br>Long-term value: 890 mg/m³, 300 ppm<br>bulk handling |

| · **Ingredients with biological limit values:** | |
|---|---|
| **67-56-1 methanol** | |
| BEI | 15 mg/L<br>Medium: urine<br>Time: end of shift<br>Parameter: Methanol (background, nonspecific) |

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls**
· **Appropriate engineering controls** No further data; see section 7.
· **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

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· **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 chemical properties

| | |
|---|---|
| · **Information on basic physical and chemical properties** | |
| · **General Information** | |
| · **Physical state** | Liquid |
| · **Color:** | Colorless |
| · **Odor:** | Alcohol-like |
| · **Odor threshold:** | Not determined |
| · **Melting point/Melting range:** | -98 °C (-144.4 °F) |
| · **Boiling point/Boiling range:** | 64.7 °C (148.5 °F) |
| · **Flammability:** | Highly flammable. |
| · **Explosion limits:** | |
| · **Lower:** | 5.5 Vol % |
| · **Upper:** | 44 Vol % |
| · **Flash point:** | 9 °C (48.2 °F) |
| · **Auto igniting:** | 455 °C (851 °F) |
| · **Decomposition temperature:** | Not determined |
| · **pH-value:** | Not determined |
| · **Viscosity:** | |
| · **Kinematic:** | Not determined |
| · **Dynamic:** | Not determined |
| · **Solubility in / Miscibility with** | |
| · **Water:** | Fully miscible. |
| · **Partition coefficient (n-octanol/water):** | Not determined |
| · **Vapor pressure at 20 °C (68 °F):** | 100 hPa (75 mm Hg) |
| · **Vapor pressure:** | |
| · **Density at 20 °C (68 °F):** | 0.8 g/cm³ (6.676 lbs/gal) |
| · **Relative density** | Not determined |
| · **Vapor density** | Not determined |
| · **Particle characteristics** | Not applicable |

| | |
|---|---|
| · **Other information** | |
| · **Appearance:** | |
| · **Form:** | Fluid |
| · **Important information on protection of health and environment, and on safety.** | |
| · **Ignition temperature:** | Product is not selfigniting. |
| · **Danger of explosion:** | Product is not explosive. However, formation of explosive air/vapor mixtures are possible. |

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· **Solvent content:**
· **Organic solvents:** 99.4 %
· **VOC content:** 99.37 %
993.7 g/l / 8.29 lb/gal
· **Solids content:** 0.0 %
· **Change in condition**
· **Evaporation rate** Not determined

## 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.

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## 11 Toxicological information

· **Information on toxicological effects**
· **Acute toxicity:**

| · **LD/LC50 values that are relevant for classification:** | | |
|---|---|---|
| **ATE (Acute Toxicity Estimate)** | | |
| Oral | LD50 | 101 mg/kg |
| Dermal | LD50 | 302 mg/kg |
| Inhalative | LC50/4 h | 3.02 mg/L |

| **67-56-1 methanol** | | |
|---|---|---|
| Oral | LD50 | 5,628 mg/kg (rat) |
| Dermal | LD50 | 15,800 mg/kg (rabbit) |

| **8006-61-9 Gasoline, natural** | | |
|---|---|---|
| Oral | LD50 | 14,000 mg/kg (rat) |
| Dermal | LD50 | >2,000 mg/kg (rabbit) |
| Inhalative | LC50/4 h | 300,000 mg/L (rat) |

· **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
The product can cause inheritable damage.
· **Interactive effects** No interactive effects between components are known.

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· **Carcinogenic categories**

| · **IARC (International Agency for Research on Cancer)** | | |
|---|---|---|
| 8006-61-9 | Gasoline, natural | 2B |

| · **NTP (National Toxicology Program)** |
|---|
| None of the ingredients is listed. |

| · **OSHA-Ca (Occupational Safety & Health Administration)** |
|---|
| None of the ingredients is listed. |

· **Alternative sources for toxicological information**
No non-standard sources for toxicological information where used.

## 12 Ecological information

· **Toxicity**
· **Aquatic toxicity:** No further relevant information available.
· **Persistence and degradability** No further relevant information available.
· **Bioaccumulative potential** No further relevant information available.
· **Mobility in soil** No further relevant information available.
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable
· **vPvB:** Not applicable
· **Other adverse effects**
· **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.

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## 13 Disposal considerations

· **Waste treatment methods**
· **Recommendation:**
Dispose of contents/container in accordance with local/regional/national/international regulations.
Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

· **Uncleaned packagings:**
· **Recommendation:** Disposal must be made according to official regulations.
· **Recommended cleansing agent:** Water, if necessary with cleansing agents.

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## 14 Transport information

| · **Not Regulated, De minimis Quantities** | - |
|---|---|
| · **UN-Number**<br>· **DOT, IMDG, IATA** | UN1230 |
| · **UN proper shipping name**<br>· **DOT** | Methanol solution |

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| | |
|---|---|
| · **IMDG, IATA** | METHANOL solution |
| · **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 |
| · **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** | Not applicable |
| · **Transport/Additional information:** | |
| · **DOT** | |
| · **Quantity limitations** | On passenger aircraft/rail: 1 L<br>On cargo aircraft only: 60 L |
| · **IMDG** | |
| · **Limited quantities (LQ)** | 1L |
| · **Excepted quantities (EQ)** | Code: E2<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 500 ml |
| · **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. |

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· **UN "Model Regulation":** UN 1230 METHANOL SOLUTION, 3 (6.1), II

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## 15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**
· **Sara**

· **Section 355 (extremely hazardous substances):**
None of the ingredients is listed.

· **Section 313 (Specific toxic chemical listings):**

| | |
|---|---|
| 67-56-1 | methanol |

· **TSCA (Toxic Substances Control Act):**
All components have the value ACTIVE.

· **Hazardous Air Pollutants**

| | |
|---|---|
| 67-56-1 | methanol |

· **Clean Air Act Substances - Class I ODS**
None of the ingredients is listed.

· **Clean Air Act Substances - Class II ODS**
None of the ingredients is listed.

· **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:**

| | |
|---|---|
| 67-56-1 | methanol |

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**
None of the ingredients is listed.

· **TLV (Threshold Limit Value)**

| | | |
|---|---|---|
| 8006-61-9 | Gasoline, natural | A3 |

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

| | |
|---|---|
| 8006-61-9 | Gasoline, natural |

· **National regulations:**
· **Additional classification according to Decree on Hazardous Materials:**
Carcinogenic hazardous material group III (dangerous).
· **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:** pdl-acg-regulatory-cq@agilent.com
· **Date of previous version** 11/18/2024
· **Version number of previous version:** 4
· **Date of preparation** 07/01/2026
· **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 3: Acute toxicity – Category 3
Germ cell mutagenicity 1B: Germ cell mutagenicity – Category 1B
Carcinogenicity 2: Carcinogenicity – Category 2
Specific target organ toxicity (single exposure) 1: Specific target organ toxicity (single exposure) – Category 1
· *** Data compared to the previous version altered.**