

Reviewed on 11/27/2023

1 Identification

· Product identifier

- · Product Name: Gasoline Range Organics (EPA), Alternate Form
- · Part Name: GRO-EPA-2
- · Application of the substance / the mixture For Laboratory Use Only
- · Uses advised against Not for Human or Animal Use
- · Details of the supplier of the safety data sheet · Manufacturer/Supplier: Spex CertiPrep, LLC. 203 Norcross Ave, Metuchen, NJ 08840 USA 732-549-7144
- USMet-CRMSales@antylia.com · Information department: product safety department · Emergency telephone number:
- Emergency Phone Number (24 hours) CHEMTREC (800-424-9300) Outside US: 703-527-3887

2 Hazard(s) identification

Classification of the substance or mixture

GHS02 Flame

Flammable Liquids 2

H225 Highly flammable liquid and vapor.



Acute Toxicity - Inhalation 3 H331 Toxic if inhaled.



Toxic to Reproduction 2

H361 Suspected of damaging fertility or the unborn child.

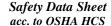
Specific Target Organ Toxicity - Single Exposure 1 H370 Causes damage to the central nervous system and the visual organs.

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



- · Signal word Danger
- · Hazard-determining components of labeling: methanol
- toluene
- · Hazard statements
- H225 Highly flammable liquid and vapor.
- H331 Toxic if inhaled.
- H361 Suspected of damaging 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.
- P240 Ground/bond container and receiving equipment.
- P241 Use explosion-proof electrical/ventilating/lighting/equipment.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P260 Do not breathe dust/fume/gas/mist/vapors/spray.
- Wear protective gloves/protective clothing/eye protection/face protection. P280

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.



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P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P321	Specific treatment (see on this label).
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.
· Classification sys	tem:

· NFPA ratings (scale 0 - 4)



· HMIS-ratings (scale 0 - 4)

HEALTH \bullet 1Health = *1FIRE3Fire = 3REACTIVITY0Reactivity = 0

· Other hazards

- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerou	is components:	
67-56-1	methanol	99.0%
108-88-3	toluene	0.15%
· Chemical	identification of the substance/preparation	
	2-methylpentane	0.15%
540-84-1	2,2,4-trimethylpentane	0.15%
	o-xylene	0.1%
95-63-6	1,2,4-trimethylbenzene	0.1%
106-42-3	p-xylene	0.1%
108-38-3	m-xylene	0.1%
71-43-2	benzene	0.05%
	ethylbenzene	0.05%
142-82-5	heptane	0.05%

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 give anything to eat or drink Do not induce vomitting

· 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.
- Special hazards arising from the substance or mixture During heating or in case of fire poisonous gases are produced.

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Advice	for	fire	fig	hters

· Protective equipment: Mouth respiratory protective device.

6 Accident	al release measures	
Mount res Wear prov Environn Dilute wit Do not all Methods Absorb w Dispose c Ensure aa Reference	precautions, protective equipment and emergency procedures piratory protective device. ective equipment. Keep unprotected persons away. ental precautions: h plenty of water. ow to enter sewers/ surface or ground water. und material for containment and cleaning up: th liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). ontaminated material as waste according to section 13. equate ventilation.	
	n 7 for information on safe handling. n 8 for information on personal protection equipment.	
	n 13 for disposal information.	
· Protective	Action Criteria for Chemicals	
· PAC-1:		
	methanol	530 ppm
	2-methylpentane	1,000 ppm
108-88-3		67 ppm
	2,2,4-trimethylpentane	230 ppm
	1,2,4-trimethylbenzene	140 ppm
108-38-3		130 ppm
71-43-2		52 ppm
	ethylbenzene	33 ppm
142-82-5	heptane	500 ppm
· PAC-2:		
	methanol	2,100 ppm
	2-methylpentane	11000** ppm
108-88-3		560 ppm
	2,2,4-trimethylpentane	830 ppm
	1,2,4-trimethylbenzene	360 ppm
108-38-3		920 ppm
71-43-2		800 ppm
	ethylbenzene	1100* ppm
142-82-5	heptane	830 ppm
• PAC-3:		
	methanol	7200* ppm
	2-methylpentane	66000*** ppm
108-88-3		3700* ppm
	2,2,4-trimethylpentane	5000* ppm
	1,2,4-trimethylbenzene	480 ppm
108-38-3	•	2500* ppm
71-43-2	-	4000* ppm
	ethylbenzene	1800* ppm
142-82-5	heptane	5000* ppm

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.

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- \cdot 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.

· Cont	trol parameters
· Com	ponents with limit values that require monitoring at the workplace:
67-5	6-1 methanol
PEL	Long-term value: 260 mg/m ³ , 200 ppm
REL	Short-term value: 325 mg/m³, 250 ppm Long-term value: 260 mg/m³, 200 ppm Skin
	Short-term value: 250 ppm Long-term value: 200 ppm Skin; BEI
108-	88-3 toluene
PEL	Long-term value: 200 ppm Ceiling limit value: 300; 500* ppm *10-min peak per 8-hr shift
REL	Short-term value: 560 mg/m ³ , 150 ppm Long-term value: 375 mg/m ³ , 100 ppm
TLV	Long-term value: 20 ppm BEI, OTO, A4
· Ingr	edients with biological limit values:
67-5	6-1 methanol
BEI	15 mg/L Medium: urine Time: end of shift
100	Parameter: Methanol (background, nonspecific)
	88-3 toluene
	0.02 mg/L Medium: blood Time: prior to last shift of workweek Parameter: Toluene
	0.03 mg/L Medium: urine Time: end of shift Parameter: Toluene
	0.3 mg/g creatinine Medium: urine Time: end of shift Parameter: o-Cresol with hydrolysis (background) itional information: The lists that were valid during the creation were used as basis.

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· 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.

· Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

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· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

• Penetration time of glove material The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. • Eye protection:



Tightly sealed goggles

9 Physical and chemical properties

· Information on basic physical and a	chemical properties
· General Information	
· Appearance:	
Form:	Liquid
Color:	According to product specification
· Odor:	Characteristic
· Odour Threshold:	Not applicable.
· pH-value:	Not applicable.
· Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	64.7 °C (148.5 °F)
· Flash point:	< 23 °C (< 73.4 °F)
· Flammability (solid, gaseous):	Highly flammable.
· Auto igniting:	455 °C (851 °F)
• Decomposition temperature:	Not applicable.
· 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):	128 hPa (96 mm Hg)
· Density	Not applicable.
· Relative density	Not applicable.
· Vapor density	Not applicable.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with	
Water:	Fully miscible.
· Partition coefficient (n-octanol/wat	er): Not applicable.
· Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
· Solvent content:	
Organic solvents:	99.9 %
VOC content:	100.00 %
Solids content:	0.0 %
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· Other information

No further relevant information available.

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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.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

· LD/LC50 values that are relevant for classification:

67-56-1 methanol

Oral LD50 5,628 mg/kg (rat)

Dermal LD50 15,800 mg/kg (rabbit)

· Primary 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

Product is suspected to cause damage to fertility.

Product is suspected to cause birth defects.

Carcinogenic categories

· IARC (In	ternational Agency for Research on Cancer)	
108-88-3	toluene	3
95-47-6	o-xylene	3
106-42-3	p-xylene	3
108-38-3	m-xylene	3
71-43-2	benzene	1
100-41-4	ethylbenzene	2B
	ional Toxicology Program)	
71-43-2 k	penzene	K
· OSHA-Ca (Occupational Safety & Health Administration)		
71-43-2 benzene		

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 1 (Self-assessment): slightly hazardous for water
- Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- · 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.

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

14 Transport information	
· UN-Number · DOT, ADR, IMDG, IATA	UN1230
 UN proper shipping name DOT ADR IMDG, IATA 	Methanol 1230 METHANOL METHANOL
• Transport hazard class(es)	
· Class · Label	3 Flammable liquids 3, 6.1
·ADR	5, 51
·Class	3 Flammable liquids
· Label · IMDG	3+6.1
· Class · Label	3 Flammable liquids 3/6.1
· IATA	
· Class · Label	3 Flammable liquids 3 (6.1)
· Packing group · DOT, ADR, IMDG, IATA	П
· Environmental hazards:	Not applicable.
 Special precautions for user Hazard identification number (Kemler code): EMS Number: Stowage Category Stowage Code 	Warning: Flammable liquids 336 F-E,S-D B SW2 Clear of living quarters.
• Transport in bulk according to Annex II of MARPOL73/78 and the IBC Cod	le Not applicable.
· Transport/Additional information:	
· ADR · Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
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· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	IL Code: E2 Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 1230 METHANOL, 3 (6.1), II

15 Regulatory information

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available. • Sara

· Sara		
· Section 3	13 (Specific toxic chemical listings):	
67-56-1	methanol	
108-88-3	toluene	
95-47-6	o-xylene	
95-63-6	1,2,4-trimethylbenzene	
106-42-3	p-xylene	
108-38-3	m-xylene	
71-43-2	benzene	
100-41-4	ethylbenzene	
· TSCA (T	xic Substances Control Act):	
	nents have the value ACTIVE.	
	s Air Pollutants	
	methanol	
108-88-3		
	2,2,4-trimethylpentane	
	o-xylene	
106-42-3		
108-38-3		
71-43-2		
100-41-4	ethylbenzene	
· Propositi		
	s known to cause cancer:	
71-43-2	benzene	
100-41-4	ethylbenzene	
· Chemica	s known to cause reproductive toxicity for females:	
	e ingredients is listed.	
	s known to cause reproductive toxicity for males:	
71-43-2		
	s known to cause developmental toxicity:	
	methanol	
108-88-3		
71-43-2		
	nic categories	
	ironmental Protection Agency)	1.00
108-88-3		II
	2,2,4-trimethylpentane	II
	o-xylene	I
	1,2,4-trimethylbenzene	II
106-42-3		I
108-38-3		1
71-43-2		A, K/I
	ethylbenzene	D
142-82-5		D
· TLV (Thr	eshold Limit Value)	

108-88-3 toluene

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		(Contd. of page 8)
	o-xylene	A4
106-42-3		A4
108-38-3	m-xylene	A4
	benzene	Al
100-41-4	ethylbenzene	A3
· NIOSH-C	Ca (National Institute for Occupational Safety and Health)	
71-43-2	benzene	

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

· Hazard pictograms



· Signal word Danger

· Hazard-determining components of labeling:

methanol

toluene

· Hazard statements

H225 Highly flammable liquid and vapor.

H331 Toxic if inhaled.

H361 Suspected of damaging fertility or the unborn child.

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

Precautionary sta	atements
P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P35	53 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P321	Specific treatment (see on this label).
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.
. Chamical safety	assassment. A Chemical Safety Assassment has not been carried out

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS: product safety department

- · Contact:
- Spex CertiPrep, LLC.
- 1-732-549-7144

· Date of preparation / last revision 11/27/2023

· 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

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Acute Toxicity - Inhalation 3: Acute toxicity – Category 3 Toxic to Reproduction 2: Reproductive toxicity – Category 2 Specific Target Organ Toxicity - Single Exposure 1: Specific target organ toxicity (single exposure) – Category 1

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