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SAFETY DATA SHEET

1. Identification

Product identifier

UNLEADED GASOLINE

Other means of identification

SDS number

002-GHS

Synonyms

Regular/Premium/Midgrade - Unleaded Gasoline, RFG - Reformulated Unleaded Gasoline, Conventional Unleaded Gasoline, Oxygenated Unleaded Gasoline, Non-Oxygenated Unleaded Gasoline, CARB (California Air Resource Board) Unleaded Gasoline, RBOB - Reformulated Blendstock for Oxygenate Blending, CBOB - Conventional Blendstock for Oxygenate Blending, Petrol, Motor Fuel.

See section 16 for complete information.

Recommended use

Motor Fuel Motor fuels.

Recommended restrictions

None known

Manufacturer/Importer/Supplier/Distributor information

Manufacturer/Supplier

Valero Marketing & Supply Company and Affiliates

One Valero Way

San Antonio, TX 78269-6000

General Assistance

210-345-4593

E-Mail

CorpHSE@valero.com Industrial Hygienist

Contact Person **Emergency Telephone**

24 Hour Emergency 866-565-5220 1-800-424-9300 (CHEMTREC USA)

2. Hazard(s) identification

Physical hazards

Flammable liquids

Category 1

Health hazards

Skin corrosion/irritation

Category 2

Germ cell mutagenicity

Category 1B

Carcinogenicity

Category 1B

Reproductive toxicity

Category 2

Specific target organ toxicity, single exposure

Category 3 narcotic effects

Specific target organ toxicity, repeated

Category 2

exposure

Aspiration hazard

Category 1

Environmental hazards

Hazardous to the aquatic environment,

Category 2

OSHA defined hazards

Not classified

long-term hazard

Label elements



Signal word

Hazard statement

Extremely flammable liquid and vapor. Causes skin irritation. May cause genetic defects. May cause cancer. Suspected of damaging fertility or the unborn child. May cause drowsiness or dizziness. May cause damage to organs (blood, liver, kidney) through prolonged or repeated exposure. May be fatal if swallowed and enters airways. Toxic to aquatic life with long lasting effects.

Precautionary statement

Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting// equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe gas/mist/vapors/spray. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Use only outdoors or in a well-ventilated area. Avoid release to the environment.

Response

If exposed or concerned: Get medical advice/attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. If on skin (or hair). Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. In case of fire: Use alcohol-resistant foam, carbon dioxide, dry powder or water fog for extinction. Collect spillage.

Storage Disposal

Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool. Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)

None known.

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%
Gasoline	86290-81-5	80-100
Toluene	108-88-3	0-30
Hexane (Other Isomers)	96-14-0	5-25
Xylene (o, m, p isomers)	1330-20-7	0-25
Octane (All isomers)	111-65-9	0-18.5
Ethanol	64-17-5	0-10
1,2,4, Trimethylbenzene	95-63-6	0-6
n-Heptane	142-82-5	1-5
Pentane	109-66-0	1-5
Cumene	98-82-8	0-5
Ethylbenzene	100-41-4	0-5
Benzene	71-43-2	0-4.9
n-Hexane	110-54-3	0-3
Cyclohexane	110-82-7	0-3

4. First-aid measures

Inhalation Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.

Skin contact Remove contaminated clothing and shoes. Wash off immediately with soap and plenty of water. Get medical attention if irritation develops or persists. Wash clothing separately before reuse.

Destroy or thoroughly clean contaminated shoes. If high pressure injection under the skin occurs,

always seek medical attention.

Eve contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical attention.

Ingestion Rinse mouth thoroughly. Do not induce vomiting without advice from poison control center. Do not give mouth-to-mouth resuscitation. If vomiting occurs, keep head low so that stomach content

does not get into the lungs. Never give anything by mouth to a victim who is unconscious or is

having convulsions. Get medical attention immediately

Most important symptoms/effects, acute and delayed

Irritation of nose and throat. Irritation of eyes and mucous membranes. Skin irritation. Unconsciousness. Corneal damage. Narcosis. Cyanosis (blue tissue condition, nails, lips, and/or skin). Decrease in motor functions. Behavioral changes. Edema. Liver enlargement. Jaundice. Conjunctivitis. Proteinuria. Defatting of the skin. Rash.

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Indication of immediate medical attention and special treatment needed

In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

General information

If exposed or concerned: get medical attention/advice. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use.

5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media

Water spray. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical

Vapor may cause flash fire. Vapors can flow along surfaces to distant ignition source and flash back. Sensitive to static discharge.

Special protective equipment and precautions for firefighters

Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

Fire-fighting equipment/instructions

Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. Withdraw immediately in case of rising sound from venting safety devices or any discoloration of tanks due to fire. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Move containers from fire area if you can do it without risk. In the event of fire, cool tanks with water spray. Cool containers exposed to flames with water until well after the fire is out. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn. Vapors may form explosive air mixtures even at room temperature. Prevent buildup of vapors or gases to explosive concentrations. Some of these materials, if spilled, may evaporate leaving a flammable residue. Water runoff can cause environmental damage. Use compatible foam to minimize vapor generation as needed.

Specific methods General fire hazards Use water spray to cool unopened containers.

Extremely flammable liquid and vapor. Containers may explode when heated.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Local authorities should be advised if significant spills cannot be contained. Keep upwind. Keep out of low areas. Ventilate closed spaces before entering. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. See Section 8 of the SDS for Personal Protective Equipment.

Methods and materials for containment and cleaning up Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if you can do so without risk. This material is a water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water. Dike the spilled material, where this is possible. Prevent entry into waterways, sewers, basements or confined areas.

Use non-sparking tools and explosion-proof equipment.

Small Spills: Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination. This material and its container must be disposed of as hazardous waste.

Large Spills: Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Prevent product from entering drains. Do not allow material to contaminate ground water system. Should not be released into the environment.

Environmental precautions

Gasoline may contain oxygenated blend products (Ethanol, etc.) that are soluble in water and therefore precautions should be taken to protect surface and groundwater sources from contamination. If facility or operation has an "oil or hazardous substance contingency plan", activate its procedures. Stay upwind and away from spill. Wear appropriate protective equipment including respiratory protection as conditions warrant. Do not enter or stay in area unless monitoring indicates that it is safe to do so. Isolate hazard area and restrict entry to emergency crew. Extremely flammable. Review Firefighting Measures, Section 5, before proceeding with clean up. Keep all sources of ignition (flames, smoking, flares, etc.) and hot surfaces away from release. Contain spill in smallest possible area. Recover as much product as possible (e.g. by vacuuming). Stop leak if it can be done without risk. Use water spray to disperse vapors. Use compatible foam to minimize vapor generation as needed. Spilled material may be absorbed by an appropriate absorbent, and then handled in accordance with environmental regulations. Prevent spilled material from entering sewers, storm drains, other unauthorized treatment or drainage systems and natural waterways. Contact fire authorities and appropriate federal, state and local agencies. If spill of any amount is made into or upon navigable waters, the contiguous zone, or adjoining shorelines, contact the National Response Center at 1-800-424-8802.

UNLEADED GASOLINE

913457 Version #: 03 Revison date: 23-May-2014 Print date: 23-May-2014

Prepared by 3E Company

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7. Handling and storage

Precautions for safe handling

Eliminate sources of ignition. Avoid spark promoters. Ground/bond container and equipment. These alone may be insufficient to remove static electricity.

Wear personal protective equipment. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with eyes, skin, and clothing. Do not taste or swallow. Avoid prolonged exposure. Use only with adequate ventilation. Wash thoroughly after handling. The product is extremely flammable, and explosive vapor/air mixtures may be formed even at normal room temperatures. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. When using, do not eat, drink or smoke. Avoid release to the environment.

Conditions for safe storage, including any incompatibilities

Flammable liquid storage. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an gnition source. The pressure in sealed containers can increase under the influence of heat. Keep container tightly closed in a cool, well-ventilated place. Keep away from food, drink and animal feedingstuffs. Keep out of the reach of children.

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Components	value		
Benzene (CAS 71-43-2)	STEL	5 ppm	
	TWA	1 ppm	
US. OSHA Table Z-1 Limits for Ai	Contaminants (29 CFR 1910)	1000)	
Components	Туре	Value	
Cumene (CAS 98-82-8)	PEL	245 mg/m3	
		50 ppm	
Cyclohexane (CAS 110-82-7)	PEL	1050 mg/m3	
		300 ppm	
Ethanol (CAS 64-17-5)	PEL	1900 mg/m3	
		1000 ppm	
Ethylbenzene (CAS 100-41-4)	PEL	435 mg/m3	
		100 ppm	
n-Heptane (CAS 142-82-5)	PEL	2000 mg/m3	
		500 ppm	
n-Hexane (CAS 110-54-3)	PEL	1800 mg/m3	
		500 ppm	
Octane (All isomers) (CAS 111-65-9)	PEL	2350 mg/m3	
		500 ppm	
Pentane (CAS 109-66-0)	PEL	2950 mg/m3	
		1000 ppm	
Xylene (o, m, p isomers) (CAS 1330-20-7)	PEL	435 mg/m3	
US. OSHA Table Z-2 (29 CFR 1910	1000)	100 ppm	
Tubic 2-2 (20 0) K 1010	.1000)		
Components	Туре	Value	
Benzene (CAS 71-43-2)	Ceiling	25 ppm	
	TWA	10 ppm	
Toluene (CAS 108-88-3)	Ceiling	300 ppm	
	TWA	200 ppm	
US. ACGIH Threshold Limit Values		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Components	Туре	Value	
1,2,4, Trimethylbenzene (CAS 95-63-6)	TWA	25 ppm	
Benzene (CAS 71-43-2)	STEL	2.5 ppm	
		2.0 pp///	

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US. ACGIH Threshold Limit Values

Components	Туре	Value	
	TWA	0.5 ppm	
Cumene (CAS 98-82-8)	TWA	50 ppm	
Cyclohexane (CAS 110-82-7)	TWA	100 ppm	
Ethanol (CAS 64-17-5)	STEL	1000 ppm	
Ethylbenzene (CAS 100-41-4)	TWA	20 ppm	
Gasoline (CAS 86290-81-5)	STEL	500 ppm	
	TWA	300 ppm	
Hexane (Other Isomers) (CAS 96-14-0)	STEL	1000 ppm	
	TWA	500 ppm	
n-Heptane (CAS 142-82-5)	STEL	500 ppm	
	TWA	400 ppm	
n-Hexane (CAS 110-54-3)	TWA	50 ppm	
Octane (All isomers) (CAS 111-65-9)	TWA	300 ppm	
Pentane (CAS 109-66-0)	TWA	600 ppm	
Toluene (CAS 108-88-3)	TWA	20 ppm	
Xylene (o, m, p isomers) (CAS 1330-20-7)	STEL	150 ppm	
(CAC 1000-20-7)	TWA	100 ppm	
US. NIOSH: Pocket Guide to Chem	nical Hazards		
Components	Туре	Value	
1,2,4, Trimethylbenzene (CAS 95-63-6)	TWA	125 mg/m3	
		25 ppm	
Benzene (CAS 71-43-2)	STEL	1 ppm	
Benzene (CAS 71-43-2)	STEL TWA	1 ppm 0.1 ppm	
Benzene (CAS 71-43-2) Cumene (CAS 98-82-8)		0.1 ppm 245 mg/m3	
Cumene (CAS 98-82-8)	TWA TWA	0.1 ppm 245 mg/m3 50 ppm	
	TWA	0.1 ppm 245 mg/m3 50 ppm 1050 mg/m3	
Cumene (CAS 98-82-8) Cyclohexane (CAS 110-82-7)	TWA TWA	0.1 ppm 245 mg/m3 50 ppm 1050 mg/m3	
Cumene (CAS 98-82-8) Cyclohexane (CAS	TWA TWA	0.1 ppm 245 mg/m3 50 ppm 1050 mg/m3 300 ppm 1900 mg/m3	
Cumene (CAS 98-82-8) Cyclohexane (CAS 110-82-7) Ethanol (CAS 64-17-5)	TWA TWA TWA	0.1 ppm 245 mg/m3 50 ppm 1050 mg/m3	
Cumene (CAS 98-82-8) Cyclohexane (CAS 110-82-7)	TWA TWA	0.1 ppm 245 mg/m3 50 ppm 1050 mg/m3 300 ppm 1900 mg/m3	
Cumene (CAS 98-82-8) Cyclohexane (CAS 110-82-7) Ethanol (CAS 64-17-5) Ethylbenzene (CAS	TWA TWA TWA STEL	0.1 ppm 245 mg/m3 50 ppm 1050 mg/m3 300 ppm 1900 mg/m3 1000 ppm	
Cumene (CAS 98-82-8) Cyclohexane (CAS 110-82-7) Ethanol (CAS 64-17-5) Ethylbenzene (CAS	TWA TWA TWA	0.1 ppm 245 mg/m3 50 ppm 1050 mg/m3 300 ppm 1900 mg/m3 1000 ppm 545 mg/m3	
Cumene (CAS 98-82-8) Cyclohexane (CAS 110-82-7) Ethanol (CAS 64-17-5) Ethylbenzene (CAS 100-41-4)	TWA TWA TWA STEL	0.1 ppm 245 mg/m3 50 ppm 1050 mg/m3 300 ppm 1900 mg/m3 1000 ppm 545 mg/m3	
Cumene (CAS 98-82-8) Cyclohexane (CAS 110-82-7) Ethanol (CAS 64-17-5) Ethylbenzene (CAS	TWA TWA TWA STEL	0.1 ppm 245 mg/m3 50 ppm 1050 mg/m3 300 ppm 1900 mg/m3 1000 ppm 545 mg/m3 125 ppm 435 mg/m3	
Cumene (CAS 98-82-8) Cyclohexane (CAS 110-82-7) Ethanol (CAS 64-17-5) Ethylbenzene (CAS 100-41-4) Hexane (Other Isomers)	TWA TWA TWA TWA STEL TWA Ceiling	0.1 ppm 245 mg/m3 50 ppm 1050 mg/m3 300 ppm 1900 mg/m3 1000 ppm 545 mg/m3 125 ppm 435 mg/m3 100 ppm 1800 mg/m3	
Cumene (CAS 98-82-8) Cyclohexane (CAS 110-82-7) Ethanol (CAS 64-17-5) Ethylbenzene (CAS 100-41-4) Hexane (Other Isomers)	TWA TWA TWA TWA STEL TWA	0.1 ppm 245 mg/m3 50 ppm 1050 mg/m3 300 ppm 1900 mg/m3 1000 ppm 545 mg/m3 125 ppm 435 mg/m3 100 ppm 1800 mg/m3 510 ppm 350 mg/m3	
Cumene (CAS 98-82-8) Cyclohexane (CAS 110-82-7) Ethanol (CAS 64-17-5) Ethylbenzene (CAS 100-41-4) Hexane (Other Isomers) (CAS 96-14-0)	TWA TWA TWA TWA STEL TWA Ceiling TWA	0.1 ppm 245 mg/m3 50 ppm 1050 mg/m3 300 ppm 1900 mg/m3 1000 ppm 545 mg/m3 125 ppm 435 mg/m3 100 ppm 1800 mg/m3 510 ppm 350 mg/m3 100 ppm	
Cumene (CAS 98-82-8) Cyclohexane (CAS 110-82-7) Ethanol (CAS 64-17-5) Ethylbenzene (CAS 100-41-4) Hexane (Other Isomers)	TWA TWA TWA TWA STEL TWA Ceiling	0.1 ppm 245 mg/m3 50 ppm 1050 mg/m3 300 ppm 1900 mg/m3 1000 ppm 545 mg/m3 125 ppm 435 mg/m3 100 ppm 1800 mg/m3 510 ppm 350 mg/m3 100 ppm 1800 mg/m3	
Cumene (CAS 98-82-8) Cyclohexane (CAS 110-82-7) Ethanol (CAS 64-17-5) Ethylbenzene (CAS 100-41-4) Hexane (Other Isomers) (CAS 96-14-0)	TWA TWA TWA TWA STEL TWA Ceiling TWA Ceiling	0.1 ppm 245 mg/m3 50 ppm 1050 mg/m3 300 ppm 1900 mg/m3 1000 ppm 545 mg/m3 125 ppm 435 mg/m3 100 ppm 1800 mg/m3 510 ppm 350 mg/m3 100 ppm 1800 mg/m3 440 ppm	
Cumene (CAS 98-82-8) Cyclohexane (CAS 110-82-7) Ethanol (CAS 64-17-5) Ethylbenzene (CAS 100-41-4) Hexane (Other Isomers) (CAS 96-14-0)	TWA TWA TWA TWA STEL TWA Ceiling TWA	0.1 ppm 245 mg/m3 50 ppm 1050 mg/m3 300 ppm 1900 mg/m3 1000 ppm 545 mg/m3 125 ppm 435 mg/m3 100 ppm 1800 mg/m3 510 ppm 350 mg/m3 100 ppm 1800 mg/m3 440 ppm 350 mg/m3	
Cumene (CAS 98-82-8) Cyclohexane (CAS 110-82-7) Ethanol (CAS 64-17-5) Ethylbenzene (CAS 100-41-4) Hexane (Other Isomers) (CAS 96-14-0)	TWA TWA TWA TWA STEL TWA Ceiling TWA Ceiling	0.1 ppm 245 mg/m3 50 ppm 1050 mg/m3 300 ppm 1900 mg/m3 1000 ppm 545 mg/m3 125 ppm 435 mg/m3 100 ppm 1800 mg/m3 510 ppm 350 mg/m3 100 ppm 1800 mg/m3 440 ppm 350 mg/m3 85 ppm	
Cumene (CAS 98-82-8) Cyclohexane (CAS 110-82-7) Ethanol (CAS 64-17-5) Ethylbenzene (CAS 100-41-4) Hexane (Other Isomers) (CAS 96-14-0)	TWA TWA TWA TWA STEL TWA Ceiling TWA Ceiling TWA	0.1 ppm 245 mg/m3 50 ppm 1050 mg/m3 300 ppm 1900 mg/m3 1000 ppm 545 mg/m3 125 ppm 435 mg/m3 100 ppm 1800 mg/m3 510 ppm 350 mg/m3 100 ppm 1800 mg/m3 440 ppm 350 mg/m3 85 ppm 180 mg/m3	
Cumene (CAS 98-82-8) Cyclohexane (CAS 110-82-7) Ethanol (CAS 64-17-5) Ethylbenzene (CAS 100-41-4) Hexane (Other Isomers) (CAS 96-14-0)	TWA TWA TWA TWA STEL TWA Ceiling TWA Ceiling TWA	0.1 ppm 245 mg/m3 50 ppm 1050 mg/m3 300 ppm 1900 mg/m3 1000 ppm 545 mg/m3 125 ppm 435 mg/m3 100 ppm 1800 mg/m3 510 ppm 350 mg/m3 100 ppm 1800 mg/m3 440 ppm 350 mg/m3 85 ppm	
Cumene (CAS 98-82-8) Cyclohexane (CAS 110-82-7) Ethanol (CAS 64-17-5) Ethylbenzene (CAS 100-41-4) Hexane (Other Isomers) (CAS 96-14-0) n-Heptane (CAS 110-54-3) Octane (All isomers) (CAS	TWA TWA TWA STEL TWA Ceiling TWA Ceiling TWA TWA	0.1 ppm 245 mg/m3 50 ppm 1050 mg/m3 300 ppm 1900 mg/m3 1000 ppm 545 mg/m3 125 ppm 435 mg/m3 100 ppm 1800 mg/m3 510 ppm 350 mg/m3 100 ppm 1800 mg/m3 440 ppm 350 mg/m3 85 ppm 180 mg/m3 50 ppm 180 mg/m3 50 ppm	
Cumene (CAS 98-82-8) Cyclohexane (CAS 110-82-7) Ethanol (CAS 64-17-5) Ethylbenzene (CAS 100-41-4) Hexane (Other Isomers) (CAS 96-14-0) n-Heptane (CAS 110-54-3) Octane (All isomers) (CAS	TWA TWA TWA STEL TWA Ceiling TWA Ceiling TWA TWA	0.1 ppm 245 mg/m3 50 ppm 1050 mg/m3 300 ppm 1900 mg/m3 1000 ppm 545 mg/m3 125 ppm 435 mg/m3 100 ppm 1800 mg/m3 510 ppm 350 mg/m3 100 ppm 1800 mg/m3 440 ppm 350 mg/m3 85 ppm 180 mg/m3 50 ppm 1800 mg/m3 350 ppm 1800 mg/m3 350 ppm 1800 mg/m3	
Cumene (CAS 98-82-8) Cyclohexane (CAS 110-82-7) Ethanol (CAS 64-17-5) Ethylbenzene (CAS 100-41-4) Hexane (Other Isomers) (CAS 96-14-0) n-Heptane (CAS 110-54-3) Octane (All isomers) (CAS	TWA TWA TWA TWA STEL TWA Ceiling TWA Ceiling TWA Ceiling TWA Ceiling	0.1 ppm 245 mg/m3 50 ppm 1050 mg/m3 300 ppm 1900 mg/m3 1000 ppm 545 mg/m3 125 ppm 435 mg/m3 100 ppm 1800 mg/m3 510 ppm 350 mg/m3 100 ppm 1800 mg/m3 440 ppm 350 mg/m3 85 ppm 180 mg/m3 50 ppm 180 mg/m3 50 ppm	

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Туре	Value	
	610 ppm	
TWA	350 mg/m3	
	120 ppm	
STEL	560 mg/m3	
	150 ppm	
TWA	375 mg/m3	
STEL	655 mg/m3	
	150 ppm	
TWA	435 mg/m3	
	100 ppm	
	TWA STEL TWA STEL	TWA 350 mg/m3 120 ppm STEL 560 mg/m3 150 ppm TWA 375 mg/m3 100 ppm STEL 655 mg/m3 TWA 150 ppm TWA 435 mg/m3

Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time	
Benzene (CAS 71-43-2)	25 μg/g	S-Phenylmerca pturic acid	Creatinine	*	
Ethylbenzene (CAS 100-41-4)	0.7 g/g	Sum of mandelic acid and phenylglyoxylic	Creatinine in urine		
n-Hexane (CAS 110-54-3)	0.4 mg/l	acid 2,5-Hexanedi - on, without			
	0.4 mg/l	hydrolysis 2,5-Hexanedio n, without hydrolysis	Urine	•	
Toluene (CAS 108-88-3)	0.3 mg/g	o-Cresol, with	Creatinine in urine	*	
	0.03 mg/l	Toluene	Urine		
	0.02 mg/l	Toluene	Blood		
Xylene (o, m, p isomers) (CAS 1330-20-7)	1.5 g/g	Methylhippuric acids	Creatinine in urine	*	
* - For sampling details, ple	ease see the source	e document			

Exposure guidelines

US - California OELs: Skin designation

Benzene (CAS 71-43-2) Cumene (CAS 98-82-8) n-Hexane (CAS 110-54-3) Toluene (CAS 108-88-3)

US - Minnesota Haz Subs: Skin designation applies

Cumene (CAS 98-82-8) Toluene (CAS 108-88-3)

US - Tennesse OELs: Skin designation

Cumene (CAS 98-82-8)

US ACGIH Threshold Limit Values: Skin designation

Benzene (CAS 71-43-2) n-Hexane (CAS 110-54-3)

US. NIOSH: Pocket Guide to Chemical Hazards

Cumene (CAS 98-82-8)

Can be absorbed through the skin.

Skin designation applies.

Skin designation applies.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Cumene (CAS 98-82-8)

Can be absorbed through the skin.

Appropriate engineering controls

Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment.

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Individual protection measures, such as personal protective equipment

Wear safety glasses. If splash potential exists, wear full face shield or chemical goggles. Eyelface protection

Skin protection

Avoid exposure - obtain special instructions before use. Wear protective gloves. Be aware that the Hand protection

liquid may penetrate the gloves. Frequent change is advisable. Suitable gloves can be

recommended by the glove supplier.

Other Wear chemical-resistant, impervious gloves. Full body suit and boots are recommended when handling large volumes or in emergency situations. Flame retardant protective clothing is

recommended

Respiratory protection Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a

risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workplace exposure limits for product or components are exceeded, NIOSH approved equipment should be worn. Proper respirator selection should be determined by adequately trained personnel, based on the contaminants, the degree of potential exposure and published respiratory protection factors. This equipment should be available for nonroutine and emergency

use.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Consult supervisor for special handling instructions. Avoid contact with eyes. Avoid contact with skin. Keep away from food and drink. Wash hands before breaks and immediately after handling the product. Provide eyewash station and safety shower. Handle in accordance with good

industrial hygiene and safety practice.

9. Physical and chemical properties

Appearance Light straw to red clear liquid with characteristic strong odor of gasoline.

80.06 - 440.06 °F (26.7 - 226.7 °C)

Physical state Liquid. Form Liquid.

Color Light straw to red clear.

Characteristic Gasoline Odor (Strong). Odor

Odor threshold Not available. Not available. pH

Melting point/freezing point 44.01 °F (6.67 °C) May start to solidify at this temperature. This is based on data for the following

ingredient: Cyclohexane. Weighted average: -91.9 deg C (-133.4 deg F)

Initial boiling point and boiling

range

Flash point -40.0 °F (-40.0 °C) (closed cup)

Evaporation rate 10 - 11 BuAc Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits

Flammability limit - lower

1.3%

(%)

Flammability limit - upper

7.1 %

(%)

Explosive limit - lower (%) Not available. Explosive limit - upper (%) Not available.

60.8 - 101.3 kPa (20°C)

Vapor pressure Vapor density

3 - 4 (Air=1)

Relative density

Not available.

Solubility(ies)

Solubility (water)

Very slightly soluble.

Partition coefficient (n-octanol/water)

Not available

Auto-ignition temperature

> 500 °F (> 260 °C)

Decomposition temperature

Not available.

Viscosity

Not available

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Other information

Flash point class

Flammable IA

VOC (Weight %)

100 %

10. Stability and reactivity

Reactivity

None known.

Chemical stability

Stable under normal temperature conditions and recommended use.

Possibility of hazardous

reactions

Hazardous polymerization does not occur.

Conditions to avoid

Heat, flames and sparks. Ignition sources. Contact with incompatible materials. Do not pressurize, cut, weld, braze, solder, drill, grind or expose empty containers to heat, flame, sparks, static electricity, or other sources of ignition; they may explode and cause injury or death.

Incompatible materials

Strong oxidizing agents.

Hazardous decomposition

No hazardous decomposition products are known.

products

11. Toxicological information

Information on likely routes of exposure

Ingestion

Swallowing or vomiting of the liquid may result in aspiration into the lungs.

Inhalation

In high concentrations, mists/vapors may irritate throat and respiratory system and cause

coughing. May cause drowsiness or dizziness

Skin contact

Causes skin irritation. Prolonged contact may cause dryness of the skin.

Eye contact

May cause eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics Irritation of nose and throat. Irritation of eyes and mucous membranes. Skin irritation.

Unconsciousness. Corneal damage. Narcosis. Cyanosis (blue tissue condition, nails, lips, and/or skin). Decrease in motor functions. Behavioral changes. Edema. Liver enlargement. Jaundice.

12705 mg/kg

Conjunctivitis. Proteinuria. Defatting of the skin. Rash.

Information on toxicological effects

Acute toxicity

Based on available data, the classification criteria are not met.

Components	Species	Test Results
1,2,4, Trimethylbenzene (CAS	95-63-6)	
Acute		
Dermal		
LD50	Rabbit	> 3160 mg/kg
Inhalation		
LC50	Rat	> 2000 mg/l, 48 Hours
Oral		
LD50	Rat	6 g/kg
Benzene (CAS 71-43-2)		
Acute		
Oral		
LD50	Rat	3306 mg/kg
Cumene (CAS 98-82-8)		
Acute		
Inhalation		
LC50	Mouse	2000 mg/l, 7 Hours
	Rat	8000 mg/l, 4 Hours
Oral		
LD50	Rat	1400 mg/kg
Cyclohexane (CAS 110-82-7)		
Acute		
Oral		

LD50

Rat

Components	Species	Test Results
Ethanol (CAS 64-17-5)		
Acute		
Inhalation		
LC50	Rat	30000 mg/m3
Ethylbenzene (CAS 100-41-4)		
Acute		
Dermal		
LD50	Rabbit	> 5000 mg/kg
Oral		
LD50	Rat	5.46 g/kg
n-Heptane (CAS 142-82-5)		
Acute		
Inhalation		
LC50	Rat	103 mg/l, 4 Hours
n-Hexane (CAS 110-54-3)		
Acute		
Oral		
LD50	Rat	28710 mg/kg
Octane (All isomers) (CAS 111-65	5-9)	
Acute		
Inhalation		
LC50	Rat	118 mg/l, 4 Hours
Pentane (CAS 109-66-0)		
Acute		
Inhalation		
LC50	Rat	364 mg/l, 4 Hours
Toluene (CAS 108-88-3)		
Acute		
Dermal		
LD50	Rabbit	14.1 ml/kg
Inhalation		
LC50	Rat	8000 mg/l, 4 Hours
Oral		
LD50	Rat	2.6 g/kg
Xylene (o, m, p isomers) (CAS 13	30-20-7)	
Acute		
Oral		
LD50	Rat	4300 mg/kg
Skin corrosion/irritation	Causes skin irritation	
Serious eye damage/eye	Based on available data, the classifica	ation criteria are not met.
Respiratory or skin sensitization		
Respiratory sensitization	Based on available data, the classification	ation critaria are not met
Skin sensitization	Based on available data, the classifica	
SKII SCHSILLERION	This substance may have a potential famong sensitive individuals.	or sensitization which may provoke an allergic reaction
Germ cell mutagenicity	sister-chromatid exchanges (SCEs) or lymphocytes. However, toluene and xinot observed with benzene in the sam	ne, toluene nor xylene changed the number of the number of chromosomal aberrations in human ylene caused a significant cell growth inhibition which was e concentrations. In in-vivo experiments, toluene changed ages (SCEs) in human lymphocytes. Toluene may cause

Components	Species	Test Results
Ethanol (CAS 64-17-5)		
Acute		
Inhalation		
LC50	Rat	30000 mg/m3
Ethylbenzene (CAS 100-41-4)		
Acute		
Dermal		
LD50	Rabbit	> 5000 mg/kg
Oral		
LD50	Rat	5.46 g/kg
n-Heptane (CAS 142-82-5)		
Acute		
Inhalation		
LC50	Rat	103 mg/l, 4 Hours
n-Hexane (CAS 110-54-3)		
Acute		
Oral		
LD50	Rat	28710 mg/kg
Octane (All isomers) (CAS 111-6	5-9)	
Acute		
Inhalation		
LC50	Rat	118 mg/l, 4 Hours
Pentane (CAS 109-66-0)		
Acute		
Inhalation		
LC50	Rat	364 mg/l, 4 Hours
Toluene (CAS 108-88-3)		
Acute		
Dermal		
LD50	Rabbit	14.1 ml/kg
Inhalation		
LC50	Rat	8000 mg/l, 4 Hours
Oral		3333 119.11 113413
LD50	Rat	2.6 g/kg
Xylene (o, m, p isomers) (CAS 13	330-20-7)	2.0 9/19
Acute	201)	
Oral		
LD50	Rat	4300 mg/kg
Skin corrosion/irritation	Causes skin irritation.	1000 Highlig
Serious eye damage/eye	Based on available data, the class	fination with in our not wet
irritation		mication criteria are not met.
Respiratory or skin sensitization		
Respiratory sensitization	Based on available data, the classi	
Skin sensitization	Based on available data, the classi This substance may have a potenti among sensitive individuals.	fication criteria are not met. ial for sensitization which may provoke an allergic reaction
Germ cell mutagenicity	sister-chromatid exchanges (SCEs lymphocytes. However, toluene an not observed with benzene in the s	zene, toluene nor xylene changed the number of) or the number of chromosomal aberrations in human d xylene caused a significant cell growth inhibition which was ame concentrations. In in-vivo experiments, toluene changed hanges (SCEs) in human lymphocytes. Toluene may cause
UNLEADED GASOLINE		

Date: 10/31/2015 Time: 6:25 PM To: 9183414263 @ 919183414263 8-4000/268-4500 Page: 001

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Valero Corporate Health and Safety P.O. Box 696000 San Antonio, TX 78269-6000



FROMAN OIL CO INC

918 3414263

Oct 31, 2015

Attn: Safety/Right-To-Know Coordinator

Dear Customer:

Copies of Safety Data Sheet(s) (SDS), which have been prepared in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200) are enclosed for the listed products manufactured by Valero. SDS are being provided to you either:

- as a result of your being authorized to purchase the products,
- a result of your request for SDS or
- in compliance with the supplier notification requirements in 40 CFR, Part 372, Subpart C.

Please compare the dates on the attached SDS with those in your file and replace any older SDS with the more recent one. OSHA regulations may require that you make the attached information available to your employees and/or your customers.

EPA Regulations 40 CFR, Part 372, in support of Section 313 of SARA, Title III, requires all manufacturers to notify suppliers annually of the concentrations of certain chemicals in products. The list of these chemicals can be found in 40 CFR 372.65. This notification is accomplished by an annual distribution (in January) of a report listing each product and the concentration of the regulated components. This distribution also covers the notification for Section 312 of SARA, Title III Tier II for chemical inventory reporting.

The following MSDS are attached:

MSDS Number

Description

87CON

Unleaded Gasoline

MSDS Assistance: (210)345-4593

Time: 6:25 PM Page: 002

To: 9183414263 @ 919183414263

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SAFETY DATA SHEET

1. Identification

Product identifier

UNLEADED GASOLINE

Other means of identification

SDS number

002-GHS

Synonyms

Regular/Premium/Midgrade - Unleaded Gasoline, RFG - Reformulated Unleaded Gasoline, Conventional Unleaded Gasoline, Oxygenated Unleaded Gasoline, Non-Oxygenated Unleaded Gasoline, CARB (California Air Resource Board) Unleaded Gasoline, RBOB - Reformulated Blendstock for Oxygenate Blending, CBOB - Conventional Blendstock for Oxygenate Blending, Petrol, Motor Fuel.

See section 16 for complete information.

Recommended use

Motor Fuel Motor fuels

Manufacturer/Importer/Supplier/Distributor information

Recommended restrictions

None known.

Manufacturer/Supplier

Valero Marketing & Supply Company and Affiliates

One Valero Way

San Antonio, TX 78269-6000

General Assistance

210-345-4593

E-Mail

CorpHSE@valero.com Industrial Hygienist

Contact Person **Emergency Telephone**

24 Hour Emergency 866-565-5220 1-800-424-9300 (CHEMTREC USA)

2. Hazard(s) identification

Physical hazards

Flammable liquids

Category 1

Health hazards

Skin corrosion/irritation

Category 2

Germ cell mutagenicity

Category 1B

Carcinogenicity

Category 1B

Reproductive toxicity

Category 2

Specific target organ toxicity, single exposure Specific target organ toxicity, repeated

Category 3 narcotic effects

Category 2

exposure

Aspiration hazard

Category 1

Environmental hazards

Hazardous to the aquatic environment,

Category 2

long-term hazard

OSHA defined hazards

Not classified.

Label elements



Signal word

Hazard statement

Extremely flammable liquid and vapor. Causes skin irritation. May cause genetic defects. May cause cancer. Suspected of damaging fertility or the unborn child. May cause drowsiness or dizziness. May cause damage to organs (blood, liver, kidney) through prolonged or repeated exposure. May be fatal if swallowed and enters airways. Toxic to aquatic life with long lasting effects.

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Precautionary statement

Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting// equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe gas/mist/vapors/spray. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Use only outdoors or in a well-ventilated area. Avoid release to the environment.

Response

If exposed or concerned: Get medical advice/attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. If on skin (or hair). Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. In case of fire: Use alcohol-resistant foam, carbon dioxide, dry powder or water fog for extinction. Collect spillage.

Storage Disposal Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool. Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)

None known.

3. Composition/information on ingredients

Mixtures

themical name	CAS number	%
Gasoline	86290-81-5	80-100
Toluene	108-88-3	0-30
Hexane (Other Isomers)	96-14-0	5-25
Xylene (o, m, p isomers)	1330-20-7	0-25
Octane (All isomers)	111-65-9	0-18.5
Ethanol	64-17-5	0-10
1,2,4, Trimethylbenzene	95-63-6	0-6
n-Heptane	142-82-5	1-5
Pentane	109-66-0	1-5
Cumene	98-82-8	0-5
Ethylbenzene	100-41-4	0-5
Benzene	71-43-2	0-4.9
n-Hexane	110-54-3	0-3
Cyclohexane	110-82-7	0-3

4. First-aid measures

Inhalation

Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention

Skin contact

Remove contaminated clothing and shoes. Wash off immediately with soap and plenty of water. Get medical attention if irritation develops or persists. Wash clothing separately before reuse. Destroy or thoroughly clean contaminated shoes. If high pressure injection under the skin occurs, always seek medical attention.

Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention.

Ingestion

delayed

Rinse mouth thoroughly. Do not induce vomiting without advice from poison control center. Do not give mouth-to-mouth resuscitation. If vomiting occurs, keep head low so that stomach content does not get into the lungs. Never give anything by mouth to a victim who is unconscious or is having convulsions. Get medical attention immediately.

Most important symptoms/effects, acute and Irritation of nose and throat. Irritation of eyes and mucous membranes. Skin irritation. Unconsciousness. Corneal damage. Narcosis. Cyanosis (blue tissue condition, nails, lips, and/or skin). Decrease in motor functions. Behavioral changes. Edema. Liver enlargement. Jaundice. Conjunctivitis. Proteinuria. Defatting of the skin. Rash.

UNLEADED GASOLINE

913457 Version #: 03 Revison date: 23-May-2014 Print date: 23-May-2014 Prepared by 3E Company