# **SAFETY DATA SHEET**

CITGO CITGEAR® SYNTHETIC PAG 460



### Section 1. Identification

GHS product identifier	: CITGO CITGEAR® SYNTHETIC PAG 460
Synonyms	: Synthetic Gear Lubricant
Code	: 632549001
MSDS #	: 632549001
Supplier's details	: CITGO Petroleum Corporation P.O. Box 4689 Houston, TX 77210 sdsvend@citgo.com
Emergency telephone number (with hours of operation)	: Technical Contact: (800) 248-4684 Medical Emergency: (832) 486-4700 CHEMTREC Emergency: (800) 424-9300 (United States Only)
Section 2. Hazar	ds identification
OSHA/HCS status	: While this material is not considered hazardous by the OSHA Hazard Communication

OSHA/HCS status	: While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
Classification of the substance or mixture	: Not classified.
GHS label elements	
Signal word	: No signal word.
Hazard statements	: No known significant effects or critical hazards.
Precautionary statements	
General	: Avoid contact with eyes, skin and clothing. Thoroughly wash exposed areas and clothing with soap and water. IF IN EYES: Rinse cautiously with water for several minutes. IF SWALLOWED: Do not induce vomiting. If you feel unwell, seek medical attention and show the label when possible. Keep out of reach of children.
Prevention	: Not applicable.
Response	: Not applicable.
Storage	: Store in a dry place and/or in closed container. Store in accordance with all local, regional, national and international regulations.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazards not otherwise classified	: None known.

## Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of identification	: Synthetic Gear Lubricant

<b>CAS number/other identifiers</b>		
CAS number	;	Not applicable.

## Section 3. Composition/information on ingredients

Ingredient name	%	CAS number
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	≤3	68411-46-1

Any concentration shown as a range is to protect confidentiality or is due to process variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

#### Description of necessary first aid measures

Eye contact	<ul> <li>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.</li> </ul>
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	<ul> <li>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</li> </ul>
Ingestion	<ul> <li>Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.</li> </ul>

#### Most important symptoms/effects, acute and delayed

Potential acute health effe	<u>1</u>
Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/sym	o <u>ms</u>
Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.
Indication of immediate me	al attention and special treatment needed, if necessary
Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: Treat symptomatically and supportively.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training.

#### See toxicological information (Section 11)

## Section 5. Fire-fighting measures

Date of issue/Date of revision	: 10/6/2020	Date of previous issue	: 12/17/2018	Version : 3	2/10
Specific hazards arising from the chemical	: In a fire o	r if heated, a pressure incre	ease will occur and th	ne container may burst.	
Unsuitable extinguishing media	: None kno	wn.			
Suitable extinguishing media	: Use an ex	tinguishing agent suitable	for the surrounding fi	re.	
Extinguishing media					

## Section 5. Fire-fighting measures

-	-
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide phosphorus oxides
Special protective actions for fire-fighters	<ul> <li>Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.</li> </ul>
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

Personal precautions, protec	tiv	e equipment and emergency procedures
For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for co	ont	ainment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

Precautions for safe handling		
Protective measures	÷	Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	:	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	:	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

**Control parameters** 

### Section 7. Handling and storage

Bulk Storage Conditions: Maintain all storage tanks in accordance with applicable regulations. Use necessary controls to monitor tank inventories. Inspect all storage tanks on a periodic basis. Test tanks and associated piping for tightness. Maintain the automatic leak detection devices to assure proper working condition.

### Section 8. Exposure controls/personal protection

#### **Occupational exposure limits** None. **Appropriate engineering** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants. controls **Environmental exposure** Emissions from ventilation or work process equipment should be checked to ensure controls they comply with the requirements of environmental protection legislation. In some cases, vapor controls, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. Individual protection measures **Hygiene measures** Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. : Safety glasses equipped with side shields are recommended as minimum protection in Eye/face protection industrial settings. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles. Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If inhalation hazards exist, a full-face respirator may be required instead. **Skin protection** Hand protection : Chemical-resistant gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. : Personal protective equipment for the body should be selected based on the task being **Body protection** performed and the risks involved and should be approved by a specialist before handling this product. : Avoid skin contact with liquid. Appropriate footwear and any additional skin protection Other skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Leather boots are not protective for liquid contact. **Respiratory protection** Avoid inhalation of gases, vapors, mists or dusts. Use a properly fitted, air-purifying or supplied-air 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.

## **Section 9. Physical and chemical properties**

Appearance	
Physical state	: Liquid.
Color	: Colorless to light yellow.
Odor	: Mild.
рН	: Not available.
Boiling point	: Not available.
Flash point	: Open cup: 298°C (568.4°F) [Cleveland.]

## Section 9. Physical and chemical properties

Lower and upper explosive (flammable) limits	: Not available.
Vapor pressure	: <0.13 kPa (<1 mm Hg) [room temperature]
Vapor density	: >1 [Air = 1]
Relative density	: 1.05
Density Ibs/gal	: Estimated 8.75 lbs/gal
Density gm/cm <sup>3</sup>	: Not available.
Gravity, °API	: Estimated 3 @ 60 F
Solubility	: Soluble in the following materials: cold water.
Flow time (ISO 2431)	: Not available.
Viscosity	: Kinematic (40°C (104°F)): 4.6 cm <sup>2</sup> /s (460 cSt)
Viscosity SUS	: Estimated 2131 SUS @104 F

## Section 10. Stability and reactivity

Reactivity	: Not expected to be Explosive, Self-Reactive, Self-Heating, or an Organic Peroxide under US GHS Definition(s).
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

#### Information on toxicological effects

Acute toxicity

Product/ingredient name	Result		Species	Dose	Exposure	
Benzenamine, N-phenyl-, reaction products with 2,4, 4-trimethylpentene	LD50 Oral		Rat	>5000 mg/kg	-	
	LD50 Oral		Rat	>5000 mg/kg	-	
Conclusion/Summary	<ul> <li>Oxirane, 2-methyl-, polymer with oxirane, monobutyl ether: In an acute inhalation studies, rats were exposed to aerosol concentrations of polyalkylene glycols (average MW 2,900) (Klonne et al, 1987). Exposure related mortalities occured at the two highest exposure concentrations. Also, slightly increased respiratory rates and locomotor activity were noted. The acute inhalation LC<sub>50</sub> was calculated to be 330 mg/M <sup>3</sup>. In another study, exposure related mortalities occured (DuPont, 1986). The approximate lethal concentration (ALC) was determined to be 390 mg/M<sup>3</sup>. Another inhalation study with rats, exposure-related mortalities occured (Ulrich et al., 1992). Study findings included treatment-related changes in the alveoli and terminal airways including moderate to severe alveolar inflammation.</li> </ul>					
Irritation/Corrosion						
Not available.						
Skin	: No additional	information.				
Eyes	: No additional information.					
Respiratory	: No additional	information.				
Date of issue/Date of revision	: 10/6/2020	Date of previous issue	: 12/17/201	8 Vers	ion : 3 5/10	

## Section 11. Toxicological information

#### **Sensitization**

Not available.

Not available.	
Skin Respiratory <u>Mutagenicity</u> Not available.	<ul><li>No additional information.</li><li>No additional information.</li></ul>
<b>Conclusion/Summary</b>	: No additional information.
Carcinogenicity Not available.	
Conclusion/Summary <u>Reproductive toxicity</u> Not available.	: No additional information.
Conclusion/Summary Teratogenicity Not available.	: No additional information.
<b>Conclusion/Summary</b>	: No additional information.
<u>Specific target organ toxici</u> Not available.	t <u>y (single exposure)</u>
Specific target organ toxici Not available.	t <u>y (repeated exposure)</u>
Aspiration hazard Not available.	
Information on the likely routes of exposure	: Routes of entry anticipated: Dermal.
Potential acute health effects	2
Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Symptoms related to the phy	vsical, chemical and toxicological characteristics
Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.
Delaved and immediate effect	ts and also chronic effects from short and long term exposure
Short term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure Potential immediate effects	: Not available.

Potential delayed effects	: Not available.
-	

## Section 11. Toxicological information

#### Potential chronic health effects

Not	avai	lable.
-----	------	--------

General	: No known significant effects or critical hazards.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.

## Section 12. Ecological information

#### **Toxicity**

Not available.

**Conclusion/Summary** : Not available.

#### Persistence and degradability

**Conclusion/Summary** : Not available.

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Benzenamine, N-phenyl-, reaction products with 2,4, 4-trimethylpentene	5.1	1730	high

#### Mobility in soil

Soil/water partition : Not available. coefficient (K<sub>oc</sub>)

Other adverse effects : No known significant effects or critical hazards.

### Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

## Section 14. Transport information

	DOT Classification	IMDG	ΙΑΤΑ		
UN number	Not regulated.	Not regulated.	Not regulated.		
UN proper shipping name	-	-	-		
Transport hazard class(es)	-	-	-		
Packing group	-	-	-		
Environmental hazards	No.	No.	No.		

SARA 302/304

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not available. to Annex II of MARPOL and the IBC Code

## Section 15. Regulatory information

**U.S. Federal regulations** 2 United States inventory (TSCA 8b): All components are listed or exempted. This material is classified as an oil under Section 311 of the Clean Water Act (CWA) and the Oil Pollution Act of 1990 (OPA). Discharges or spills which produce a visible sheen on waters of the United States, their adjoining shorelines, or into conduits leading to surface waters must be reported to the EPA's National Response Center at (800) 424-8802.

Composition/information	on	ingredients
SARA 304 RQ	:	Not applicable.
<u>SARA 311/312</u>		
Classification	:	Not applicable.
Composition/information	oni	ingredients
No products were found.		
State regulations		
Massachusetts	1	None of the components are listed.
New York	1	None of the components are listed.
New Jersey	1	None of the components are listed.
Pennsylvania	1	None of the components are listed.

#### California Prop. 65 Clear and Reasonable Warnings (2018)

A WARNING: This product can expose you to Ethyl acrylate, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

## Section 15. Regulatory information

Ingredient name	%	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
ethyl acrylate	<0.001	Yes.	No.	-	-
International regulations	·		·	·	· · · · · ·
Inventory list					
United States	: All comp	onents are	listed or exempted.		
Australia	: All comp	onents are	listed or exempted.		
Canada	: At least	At least one component is not listed in DSL but all such components are listed in NDSL.			
China	: Not dete	ermined.			
Europe	ELINCS	At least one component is not listed in EINECS but all such components are listed in ELINCS. Please contact your supplier for information on the inventory status of this material.			
Japan		Japan inventory (ENCS): Not determined. Japan inventory (ISHL): Not determined.			
Malaysia	: Not dete	Not determined.			
New Zealand	: All comp	All components are listed or exempted.			
Philippines	: All comp	All components are listed or exempted.			
Republic of Korea	: All comp	All components are listed or exempted.			
Taiwan	: Not dete	Not determined.			
Thailand	: Not dete	ermined.			
Turkey	: Not dete	ermined.			
Viet Nam	: Not dete	ermined.			

### Section 16. Other information

#### National Fire Protection Association (U.S.A.)



Reprinted with permission from NFPA 704-2001, Identification of the Hazards of Materials for Emergency Response Copyright ©1997, National Fire Protection Association, Quincy, MA 02269. This reprinted material is not the complete and official position of the National Fire Protection Association, on the referenced subject which is represented only by the standard in its entirety.

Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

#### Procedure used to derive the classification

	Classification	Justification
Not classified.		
History		
Date of printing	: 10/6/2020	
Date of issue/Date of revision	: 10/6/2020	
Date of previous issue	: 12/17/2018	
Version	: 3	

### Section 16. Other information

Key to abbreviations	: ATE = Acute Toxicity Estimate	
	BCF = Bioconcentration Factor	
	GHS = Globally Harmonized System of Classification and Labelling of Chemicals	
	IATA = International Air Transport Association	
	IBC = Intermediate Bulk Container	
	IMDG = International Maritime Dangerous Goods	
	LogPow = logarithm of the octanol/water partition coefficient	
	MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations	
References	: Not available.	

✓ Indicates information that has changed from previously issued version.

#### Notice to reader

THE INFORMATION IN THIS SAFETY DATA SHEET (SDS) WAS OBTAINED FROM SOURCES WHICH WE BELIEVE ARE RELIABLE. HOWEVER, THE INFORMATION IS PROVIDED WITHOUT ANY WARRANTY, EXPRESSED OR IMPLIED REGARDING ITS CORRECTNESS OR ACCURACY. SOME INFORMATION PRESENTED AND CONCLUSIONS DRAWN HEREIN ARE FROM SOURCES OTHER THAN DIRECT TEST DATA ON THE SUBSTANCE ITSELF. THIS SDS WAS PREPARED AND IS TO BE USED ONLY FOR THIS PRODUCT. IF THE PRODUCT IS USED AS A COMPONENT IN ANOTHER PRODUCT, THIS SDS INFORMATION MAY NOT BE APPLICABLE. USERS SHOULD MAKE THEIR OWN INVESTIGATIONS TO DETERMINE THE SUITABILITY OF THE INFORMATION OR PRODUCTS FOR THEIR PARTICULAR PURPOSE OR APPLICATION.

THE CONDITIONS OR METHODS OF HANDLING, STORAGE, USE, AND/OR DISPOSAL OF THE PRODUCT ARE BEYOND OUR CONTROL AND MAY BE BEYOND OUR KNOWLEDGE. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR ANY LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH HANDLING, STORAGE, USE OR DISPOSAL OF THE PRODUCT.

CITGO is a registered trademark of CITGO Petroleum Corporation