## **SAFETY DATA SHEET**

CITGO Pacemaker® 150

#### Section 1. Identification

GHS product identifier	: CITGO Pacemaker® 150
Synonyms	: Lubricating oil; Hydraulic oil
Code	: 633008001
MSDS #	: 633008001
Supplier's details	: CITGO Petroleum Corporation P.O. Box 4689 Houston, TX 77210 sdsvend@citgo.com
Emergency telephone number	: Technical Contact: (800) 248-4684 Medical Emergency: (832) 486-4700 CHEMTREC Emergency: (800) 424-9300 (United States Only)

## Section 2. Hazards identification

OSHA/HCS status	: While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS 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	: Warning
Hazard statements	<ul> <li>Injection under the skin can cause severe injury.</li> <li>Most damage occurs in the first few hours.</li> <li>Initial symptoms may be minimal.</li> </ul>
Precautionary statements	
General	: Avoid contact with eyes, skin and clothing. May be harmful if swallowed. IF IN EYES: Rinse cautiously with water for several minutes. If swallowed, do not induce vomiting. After handling, always wash hands thoroughly with soap and water. 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	: Injection of petroleum hydrocarbons requires immediate medical attention

## Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of identification	: Lubricating oil; Hydraulic oil

CAS number/other identifiers		
CAS number	;	Not applicable.



#### Section 3. Composition/information on ingredients

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

There are no 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	: 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.

#### Most important symptoms/effects, acute

#### Potential acute health effects Eye contact : No known significant effects or critical hazards. Inhalation : No known significant effects or critical hazards. Skin contact Injection of pressurized hydrocarbons can cause severe permanent tissue damage. Initial symptoms may be minor. : No known significant effects or critical hazards. Ingestion Over-exposure signs/symptoms Eve contact : No specific data. Inhalation : No specific data. Skin contact : No specific data. Ingestion : No specific data. Indication of immediate medical attention and special treatment needed, if necessary : Treat symptomatically. Contact poison treatment specialist immediately if large Notes to physician quantities have been ingested or inhaled. : Treat symptomatically and supportively. **Specific treatments 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

Specific hazards arising from the chemical	: In a fire or if heated, a pressure increase will occur and the container may burst.
Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Hazardous thermal decomposition products	: No specific data.

## Section 5. Fire-fighting measures

Special protective actions for fire-fighters	: 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.
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, protect	tive	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 specialised 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	onta	<u>inment and cleaning up</u>
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 nandled, stored and processed. Workers should wash hands and face before eating lrinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene neasures.	
Conditions for safe storage, including any incompatibilities	Store in accordance with local regulations. Store in original container protected from lirect sunlight in a dry, cool and well-ventilated area, away from incompatible materia see Section 10) and food and drink. Keep container tightly closed and sealed until eady for use. Containers that have been opened must be carefully resealed and kep upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Bulk Storage Conditions: Maintain all storage tanks in accordance with applicable egulations. Use necessary controls to monitor tank inventories. Inspect all storage anks on a periodic basis. Test tanks and associated piping for tightness. Maintain the automatic leak detection devices to assure proper working condition.	ot

## Section 8. Exposure controls/personal protection

#### **Control parameters**

#### **Occupational exposure limits**

None identified.

Appropriate engineering controls	:	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Environmental exposure controls	:	Emissions from ventilation or work process equipment should be checked to ensure 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 measure	<u>es</u>	
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.
Eye/face protection	:	Safety glasses equipped with side shields are recommended as minimum protection in industrial settings. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: 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.
Body protection	:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	:	Appropriate footwear and any additional 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.
Respiratory protection	:	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

Physical state	: Liquid.
Color	: Amber.
Odor	: Mild petroleum odor
рН	: Not available.
Boiling point	: Not available.
Flash point	: Closed cup: 193°C (379.4°F) [Pensky-Martens [ASTM D-93]] Open cup: 228°C (442.4°F) [Cleveland.]
Evaporation rate	: <1 (n-butyl acetate. = 1)
Lower and upper explosive (flammable) limits	: Not available.
Vapor pressure	: <0.013 kPa (<0.1 mm Hg) [room temperature]
Vapor density	: >1 [Air = 1]
Relative density	: 0.88
Density lbs/gal	: Estimated 7.34 lbs/gal
Gravity, °API	: Estimated 29 @ 60 F
Solubility	: Insoluble in the following materials: cold water.
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#### Section 9. Physical and chemical properties

Viscosity

: Kinematic (40°C (104°F)): 1.5 cm<sup>2</sup>/s (150 cSt)

Viscosity SUS : Estimated 750 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	<u>l effects</u>	
Acute toxicity		
Conclusion/Summary	: Distillates (petroleum), hydrotreated heavy paraffinic: Mineral oil mists derived from highly refined oils are reported to have low acute and sub-acute toxicities in animals. Effects from single and short-term repeated exposures to high concentrations of minera oil mists well above applicable workplace exposure levels include lung inflammatory reaction, lipoid granuloma formation and lipoid pneumonia. In acute and sub-acute studies involving exposures to lower concentrations of mineral oil mists at or near current work place exposure levels produced no significant toxicological effects.	
Irritation/Corrosion		
Skin	: No additional information.	
Eyes	: No additional information.	
Respiratory	: No additional information.	
Sensitization		
Skin	: No additional information.	
Respiratory	: No additional information.	
Mutagenicity		
Conclusion/Summary	: No additional information.	
Carcinogenicity		
<b>Conclusion/Summary</b>	: No additional information.	
Reproductive toxicity		
Conclusion/Summary	: No additional information.	
<u>Teratogenicity</u>		
Conclusion/Summary	: No additional information.	
Specific target organ toxici	ity (single exposure)	
Not available.		
Specific target organ toxici Not available.	ity (repeated exposure)	
Aspiration hazard Not available.		

## Section 11. Toxicological information

Information on the likely routes of exposure	:	Routes of entry anticipated: Dermal.		
Potential acute health effects				
Eye contact	:	No known significant effects or critical hazards.		
Inhalation	:	No known significant effects or critical hazards.		
Skin contact	:	Injection of pressurized hydrocarbons can cause severe permanent tissue damage. Initial symptoms may be minor.		
Ingestion	;	No known significant effects or critical hazards.		

#### Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.

#### Potential chronic health effects

## Section 12. Ecological information

Toxicity	
Conclusion/Summary	: Not available.
Develotion of an electronic debi	
Persistence and degradab	<u>iiity</u>
Conclusion/Summary	: Not available.
<b>Bioaccumulative potential</b>	
Not available.	
Mobility in soil	
Soil/water partition	: Not available.
coefficient (Koc)	. Not available.
Other adverse effects	: No known significant effects or critical hazards.
Section 13. Disp	osal 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

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. This material and its container must be disposed

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#### Section 13. Disposal considerations

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

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

# 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 73/78 and the IBC Code

#### Section 15. Regulatory information

 U.S. Federal regulations
 : 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.
 SARA 302/304 Composition/information on ingredients

SARA 304 RQ	: Not applicable.
<u>SARA 311/312</u>	
Classification	: Not applicable.
Composition/information	<u>n on ingredients</u>

State regulations	
Massachusetts	: None of the components are listed.
New York	: None of the components are listed.
New Jersey	: None of the components are listed.
Pennsylvania	: None of the components are listed.
<u>California Prop. 65</u>	

Date of issue/Date of revision

#### Section 15. Regulatory information

**WARNING:** This product contains less than 0.1% of a chemical known to the State of California to cause cancer.

Ingredient name	%	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
ethyl acrylate	<0.001	Yes.	No.	No.	No.
nternational regulations	I				
	Japan i	nventory: N	ECSC): Not determir lot determined.		
	Malays New Ze Philipp Taiwan	ia Inventory aland Inver ines invento inventory (	ory (PICCS): All con (CSNN): Not determi	ot determined. ( <b>NZIoC</b> ): All componen nponents are listed or e:	
Canada inventory	Malays New Ze Philipp Taiwan	ia Inventory aland Inver ines invento inventory (	(EHS Register): No ntory of Chemicals ory (PICCS): All con	ot determined. ( <b>NZIoC</b> ): All componen nponents are listed or e:	
Canada inventory EU Inventory	Malays New Ze Philipp Taiwan	ia Inventory aland Inver ines inventory inventory ( ponents are	(EHS Register): Notory of Chemicals ory (PICCS): All con (CSNN): Not determined	ot determined. ( <b>NZIoC</b> ): All componen nponents are listed or e:	

#### Section 16. Other information

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



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<u>History</u>	
Date of issue/Date of revision	: 9/12/2014.
Key to abbreviations	<ul> <li>ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = International Air Transport Association IBC = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations</li> </ul>

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#### Section 16. Other information

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