# **Safety Data Sheet**

CITGO HYDURANCE AW/AL HVI-68



## 1. Product and company identification

Product name : CITGO HYDURANCE AW/AL HVI-68

Supplier : CITGO Petroleum Corporation

P.O. Box 4689 Houston, TX 77210

Synonym : Hydraulic oil;

CITGO® Material Code:633624001

 Code
 : 633624001

 MSDS #
 : 633624001

 Date
 : 8/29/2013.

Information contact : Technical Contact: (800) 248-4684

Medical Emergency: (832) 486-4700 CHEMTREC Emergency: (800) 424-9300

(United States Only) sdsvend@citgo.com

## 2. Hazards identification

### **Emergency overview**

Physical state : Liquid.

Color : Amber.

Odor : Mild petroleum odor

Hazard statements : MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA.

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard

(29 CFR 1910.1200).

Routes of entry : Dermal contact.

Potential acute health effects

Inhalation : No known significant effects or critical hazards.
 Ingestion : No known significant effects or critical hazards.
 Skin : No known significant effects or critical hazards.
 Eyes : No known significant effects or critical hazards.

## Potential chronic health effects

Chronic effects : May cause target organ damage, based on animal data.

Carcinogenicity
 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.
 Target organs
 May cause damage to the following organs: skin.

Contains material which may cause damage to the following organs: upper respiratory

tract, eyes.

### Signs and Symptoms of Acute Exposure

Inhalation: No specific data.Ingestion: No specific data.Skin: No specific data.Eyes: No specific data.

## 2. Hazards identification

**Medical conditions** aggravated by overexposure

: Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

See toxicological information (Section 11)

**GHS Classification** 

Classification of the substance or mixture : Not classified.

Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 4% Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aguatic environment: 98.1%

**GHS label elements** 

Signal word : No signal word.

: No known significant effects or critical hazards. **Hazard statements** 

**Precautionary statements** 

**Prevention** : Not applicable. Response : Not applicable. **Storage** : Not applicable. **Disposal** : Not applicable.

Other hazards which do not : None known.

result in classification

# 3. Composition/information on ingredients

Distillates (petroleum), hydrotreated heavy paraffinic

64742-54-7

60 - 100

\* = Various \*\* = Mixture \*\*\* = Proprietary

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.

# 4. First aid measures

**Eye contact** 

: Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

Skin contact

: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.

Inhalation

: Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

Ingestion

: Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Notes to physician

: No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

8/29/2013. 633624001 2/9

# 5. Fire-fighting measures

Flammability of the product

: In a fire or if heated, a pressure increase will occur and the container may burst.

**Extinguishing media** 

Suitable

: Use an extinguishing agent suitable for the surrounding fire.

Not suitable

: None known.

Special exposure hazards

: 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.

Hazardous thermal decomposition products

: No specific data.

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.

## 6. Accidental release measures

**Personal precautions** 

: 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. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

**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 for 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. Approach release from upwind. 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. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# 7. Handling and storage

**Handling** 

: Put on appropriate personal protective equipment (see Section 8). 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. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

**Storage** 

: 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.

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.

**8/29/2013**. 633624001 **3/9** 

# 8. Exposure controls/personal protection

Ingredient	Exposure limits		
Distillates (petroleum), hydrotreated heavy paraffinic	ACGIH TLV (United States, 3/2012).  TWA: 5 mg/m³ 8 hours. Form: Inhalable fraction ACGIH (United States).  TWA: 5 mg/m³ 8 hours.  STEL: 10 mg/m³ 15 minutes.  OSHA (United States).  TWA: 5 mg/m³ 8 hours.  OSHA PEL (United States, 6/2010).  TWA: 5 mg/m³ 8 hours.		

# Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

## **Engineering measures**

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

### **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.

### Personal protection

Personal protective equipment should be selected based upon the conditions under which this material is used. A hazard assessment of the work area for PPE requirements should be conducted by a qualified professional.

### Respiratory

: 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.

## **Hands**

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

## **Eyes**

: 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 or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

## Skin

: 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.

# **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, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

# 9. Physical and chemical properties

Physical state : Liquid.

Flammable limits : Lower: 1%

Upper: 7%

Color : Amber.

Odor : Mild petroleum odor

Relative density : 0.87

Density Ibs/gal : Estimated 7.25 lbs/gal
Gravity, °API : Estimated 31 @ 60 F

Vapor pressure : <0.0013 kPa (<0.01 mm Hg) [room temperature]

Vapor density : >1 [Air = 1]

**Evaporation rate** : <1 (n-butyl acetate. = 1)

Viscosity : Kinematic (40°C (104°F)): 0.68 cm²/s (68 cSt)

Viscosity SUS : Estimated 340 SUS @104 F

Solubility : Insoluble in the following materials: cold water.

Physical/chemical : Gravity, °API (ASTM D287) =31.0 @ 60° F

**properties comments** Density = 7.25 Lbs/gal.

## 10. Stability and reactivity

**Chemical stability**: The product is stable.

Conditions to avoid : No specific data.

Incompatible materials : No specific data.

**Hazardous decomposition** 

products

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous decomposition products should

not be produced.

: Under normal conditions of storage and use, hazardous reactions will not occur.

## 11. Toxicological information

## **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 mineral 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.

**Chronic toxicity** 

**Conclusion/Summary**: No additional information.

<u>Irritation/Corrosion</u>

Skin : No additional information.

Eyes : No additional information.

Respiratory : No additional information.

**Sensitizer** 

Skin : No additional information.

Respiratory : No additional information.

**Carcinogenicity** 

**Conclusion/Summary**: No additional information.

<u>Classification</u>

# 11. Toxicological information

Product/ingredient name	IARC	EPA	NTP	OSHA
Distillates (petroleum), hydrotreated heavy paraffinic	-	-	-	_

#### **Mutagenicity**

**Conclusion/Summary** 

: No additional information.

**Teratogenicity** 

**Conclusion/Summary** 

: No additional information.

**Reproductive toxicity** 

**Conclusion/Summary**: No additional information.

# 12. Ecological information

**Ecotoxicity** : No known significant effects or critical hazards.

**Aquatic ecotoxicity** 

Conclusion/Summary

Not available.

Persistence/degradability

Conclusion/Summary

Not available.

## 13. Disposal considerations

Waste disposal

: 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. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

# 14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information

#### CITGO HYDURANCE AW/AL HVI-68 14. Transport information **DOT Classification** Not Reportable quantity regulated. 189.75 lbs / 86.148 kg [26.159 gal / 99.021 L] Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements. **TDG Classification** Not regulated. Mexico Not available. Not available. Not available. Classification **ADR/RID Class** Not available. Not available. Not available. **IMDG Class** Not available. Not available. Not available.

PG\*: Packing group

**IATA-DGR Class** 

# 15. Regulatory information

Not available.

U.S. Federal regulations

: United States inventory (TSCA 8b): All components are listed or exempted.

Not available.

**SARA 302/304**: phenol

Not available.

SARA 311/312 Hazards identification: Delayed (chronic) health hazard

**Clean Water Act (CWA) 307**: toluene; Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts; phenol; lead; cadmium; benzene

Clean Water Act (CWA) 311: toluene; phenol; benzene

This material maybe 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 313**

	Product name	CAS number	Concentration
Form R - Reporting requirements	lead	7439-92-1	0.00000085

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

## **State regulations**

Massachusetts : None of the components are listed.

New York : None of the components are listed.

New Jersey : The following components are listed: Petroleum Oil

**Pennsylvania**: None of the components are listed.

California Prop. 65

## 15. Regulatory information

**WARNING:** This product contains less than 0.1% of a chemical known to the State of California to cause cancer. **WARNING:** This product contains less than 1% of a chemical known to the State of California to cause birth defects or other reproductive harm.

Ingredient name	%	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
toluene	0. 091224	No.	Yes.	No.	7000 μg/day (ingestion)
ethyl acrylate	0. 000117 - 0. 000317	Yes.	No.	No.	No.
lead	0. 00000085	Yes.	Yes.	15 μg/day (ingestion)	Yes.
cadmium	0. 000000425	Yes.	Yes.	0.05 μg/day (inhalation)	4.1 μg/day (ingestion)
benzene	0. 000000425	Yes.	Yes.	6.4 μg/day (ingestion) 13 μg/day (inhalation)	24 μg/day (ingestion) 49 μg/day (inhalation)

Canada inventory : Not determined.

**International regulations** 

International lists

: Australia inventory (AICS): Not determined. China inventory (IECSC): Not determined.

**Japan inventory**: Not determined. **Korea inventory**: Not determined.

Malaysia Inventory (EHS Register): Not determined.

New Zealand Inventory of Chemicals (NZIoC): Not determined.

Philippines inventory (PICCS): Not determined. Taiwan inventory (CSNN): Not determined.

# 16. Other information

Label requirements

: MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA.

Hazardous Material Information System (U.S.A.)



HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. HMIS® is a registered trademark of the National Paint & Coatings Association (NPCA). The customer is responsible for determining the PPE code for this material.

The customer is responsible for determining the PPE code for this material.

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



## 16. Other information

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.

**Date of issue** : 8/29/2013.

**▼** Indicates information that has changed from previously issued version.

### **Notice to reader**

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

THE CONDITIONS OR METHODS OF HANDLING, STORAGE, USE, AND 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 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