# **SAFETY DATA SHEET**

CITGO HyDurance™ AW Fluid 46

### Section 1. Identification

GHS product identifier	: CITGO HyDurance™ AW Fluid 46
Synonyms	: Hydraulic Fluid
Material uses	: Hydraulic Oil
Code	: 633608001
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. Hazards identification

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	: Warning
Hazard statements	<ul> <li>Injection of pressurized hydrocarbons can cause severe permanent tissue damage. Initial symptoms may be minor.</li> </ul>
Precautionary statement	<u>S</u>
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	<ul> <li>Store in a dry place and/or in closed container. Store in accordance with all local, regional, national and international regulations.</li> </ul>
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	: Hydraulic Fluid
identification	

### **CAS number/other identifiers**

**CAS number** : Not applicable.





### Section 3. Composition/information on ingredients

Ingredient name	%	CAS number
Distillates (petroleum), hydrotreated heavy paraffinic	≥90	64742-54-7

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 : 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. Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. Skin contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. 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 and delayed

Potential acute health effe	ects	
Eye contact	: No known significant effects or critical hazards.	
Inhalation	: No known significant effects or critical hazards.	
Skin contact	<ul> <li>Injection of pressurized hydrocarbons can cause severe permanent tissue damage. Initial symptoms may be minor.</li> </ul>	
Ingestion	: No known significant effects or critical hazards.	
Over-exposure signs/sym	<u>ptoms</u>	
Eye 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		
Notes to physician	<ul> <li>In the event of injection in underlying tissue, immediate treatment should include extensive incision, debridement and saline irrigation. Inadequate treatment can result in ischemia and gangrene. Early symptoms may be minimal.</li> </ul>	
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

Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.

# Section 5. Fire-fighting measures

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Specific hazards arising from the chemical	: In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide
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, protective 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	nta	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

# Section 7. Handling and storage

### Precautions for safe handling

Protective measures Advice on general occupational hygiene		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. 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.

information and Section 13 for waste disposal.

# 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

### **Control parameters**

**Occupational exposure limits** 

Ingredient name		Exposure limits
Distillates (petroleum), hyd	rotreated heavy paraffinic	ACGIH TLV (United States, 3/2019). TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Inhalable fraction OSHA PEL (United States, 5/2018). TWA: 5 mg/m <sup>3</sup> 8 hours. NIOSH REL (United States, 10/2016). TWA: 5 mg/m <sup>3</sup> 10 hours. Form: Mist STEL: 10 mg/m <sup>3</sup> 15 minutes. Form: Mist
Appropriate engineering controls	: Good general ventilation should be contaminants.	e sufficient to control worker exposure to airborne
Environmental exposure controls	they comply with the requirements	of process equipment should be checked to ensure of environmental protection legislation. In some gineering modifications to the process equipment wil to acceptable levels.
Individual protection meas	ures	
Hygiene measures	eating, smoking and using the lave Appropriate techniques should be	noroughly after handling chemical products, before atory and at the end of the working period. used to remove potentially contaminated clothing. re reusing. Ensure that eyewash stations and safety on location.
Eye/face protection	industrial settings. If contact is po the assessment indicates a higher Safety eyewear complying with an assessment indicates this is nece	shields are recommended as minimum protection ir ssible, the following protection should be worn, unles degree of protection: chemical splash goggles. approved standard should be used when a risk ssary to avoid exposure to liquid splashes, mists, rds exist, a full-face respirator may be required
Skin protection		
Hand protection		ing with an approved standard should be worn at all ducts if a risk assessment indicates this is necessary
Body protection		the body should be selected based on the task being and should be approved by a specialist before
Other skin protection	measures should be selected bas	propriate footwear and any additional skin protection ed on the task being performed and the risks involve cialist before handling this product. Leather boots are
Respiratory protection	supplied-air respirator complying v indicates this is necessary. Respi	mists or dusts. Use a properly fitted, air-purifying or with an approved standard if a risk assessment rator selection must be based on known or anticipate e product and the safe working limits of the selected

# Section 9. Physical and chemical properties

<u>Appearance</u>	
Physical state	: Liquid.
Color	: Light amber [Light]
Odor	: Mild petroleum odor [Slight]
рН	: Not applicable.
Boiling point	: Not available.
Flash point	: Open cup: 230°C (446°F) [Cleveland.]
Lower and upper explosive (flammable) limits	: Not available.
Vapor pressure	: Not available.
Vapor density	: Not available.
Relative density	: Not available.
Density lbs/gal	: 7.2 lbs/gal
Density gm/cm <sup>3</sup>	: 0.86 g/cm <sup>3</sup>
Gravity, °API	: 32.3
Flow time (ISO 2431)	: Not available.
Viscosity	<ul> <li>Dynamic (room temperature): Not applicable.</li> <li>Kinematic (room temperature): Not applicable.</li> <li>Kinematic (40°C (104°F)): 0.48 cm²/s (48 cSt)</li> </ul>
Viscosity SUS	: 240 SUS @100 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

Product/ingredient name	Result	Species	Dose	Exposure	
Distillates (petroleum), hydrotreated heavy paraffinic	LD50 Dermal	Rat	>5000 mg/kg	-	
	LD50 Oral	Rat	>5000 mg/kg	-	
Conclusion/Summary				oil mists derived fro	
·	highly refined oils are reported Effects from single and short-t oil mists well above applicable reaction, lipoid granuloma form studies involving exposures to current work place exposure le	erm repeated exp workplace expos nation and lipoid p lower concentrat	oosures to high con ure levels include l oneumonia. In acu ions of mineral oil r	xicities in animals. centrations of min- ung inflammatory te and sub-acute nists at or near	
Irritation/Corrosion	Effects from single and short-t oil mists well above applicable reaction, lipoid granuloma forn studies involving exposures to	erm repeated exp workplace expos nation and lipoid p lower concentrat	oosures to high con ure levels include l oneumonia. In acu ions of mineral oil r	xicities in animals. centrations of min- ung inflammatory te and sub-acute nists at or near	

# Section 11. Toxicological information

Not available.	
Skin	: No additional information.
Eyes	: No additional information.
Respiratory	: No additional information.
Sensitization	
Not available.	
Skin	: No additional information.
Respiratory	: No additional information.
Mutagenicity	
Not available.	
Conclusion/Summary	: No additional information.
Carcinogenicity Not available.	
<b>Conclusion/Summary</b>	: No additional information.
Reproductive toxicity	
Not available.	
Conclusion/Summary	: No additional information.
Teratogenicity	
Not available.	
Conclusion/Summary	: No additional information.
Specific target organ toxi Not available.	<u>city (single exposure)</u>
Specific target organ toxi Not available.	<u>city (repeated exposure)</u>
Aspiration hazard Not available.	
Information on the likely routes of exposure	: Not available.
Potential acute health effe	<u>cts</u>
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.
Currente related to the r	
	hysical, chemical and toxicological characteristics : No specific data.
Eye contact Inhalation	No specific data.
Skin contact	No specific data.
Ingestion	No specific data.
ingestion	
Delayed and immediate eff	ects and also chronic effects from short and long term exposure
Short term exposure	
Potential immediate	: Not available.

	Potential immediate effects	: Not availa	ble.			
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# Section 11. Toxicological information

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Potential delayed effects	: Not av	vailable.
Long term exposure		
Potential immediate effects	: Not av	/ailable.
Potential delayed effects	: Not av	vailable.
Potential chronic health eff	<u>:ts</u>	
Not available.		
General	: No kn	own significant effects or critical hazards.
Carcinogenicity	: No kn	own significant effects or critical hazards.
Mutagenicity	: No kn	own significant effects or critical hazards.
Teratogenicity	: No kn	own significant effects or critical hazards.
<b>Developmental effects</b>	: No kn	own significant effects or critical hazards.
Fertility effects	: No kn	own significant effects or critical hazards.

# Section 12. Ecological information

Toxicity	
Not available.	
NOT available.	
Conclusion/Summary	: Not available.
Persistence and degradabilit	
Not available.	•
Conclusion/Summary	: Not available.
Conclusion/Cummary	
<b>Bioaccumulative potential</b>	
Not available.	
Mobility in soil	
Soil/water partition	: Not available.
coefficient (Koc)	
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

	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.

**Oil:** The product(s) represented by this SDS is (are) regulated as "oil" under 49 CFR Part 130. Shipments by rail or highway in packaging having a capacity of 3500 gallons or more or in a quantity greater 42,000 gallons are subject to these requirements. In addition, mixtures containing 10% or more of this product may be subject to these requirements.

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.

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Transport in bulk according : Not available.
to Annex II of MARPOL and
the IBC Code
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### Section 15. Regulatory information

**U.S. Federal regulations** United States inventory (TSCA 8b): All components are listed or exempted. Clean Water Act (CWA) 307: Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts; toluene; phenol

Clean Water Act (CWA) 311: toluene; phenol

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 302 TPQ		SARA 304 RQ	
Name		%	EHS	(lbs)	(gallons)	(lbs)	(gallons)
Phenol		<0.001	Yes.	500 / 10000	-	1000	-
SARA 304 RQ	: 10537407	78 lbs / 478398	31.4 kg [146	695286.5 gal	/ 55627710.9	L]	
<u>SARA 311/312</u>							
Classification	Not applie	rahle					

### Not applicable.

**Composition/information on ingredients** 

No products were found.

### State regulations

# Section 15. Regulatory information

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.

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

▲ WARNING: This product can expose you to chemicals including Ethyl acrylate, which is known to the State of California to cause cancer, and Toluene, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Ingredient name	%	Cancer	Reproductive	level	Maximum acceptable dosage level
toluene	<0.01	No.	Yes.	-	Yes.
ethyl acrylate	<0.001	Yes.	No.		-

### International regulations

### Inventory list

Australia: All components are listed or exempted.Canada: All components are listed or exempted.China: All components are listed or exempted.Europe: All components are listed or exempted.Japan: Japan inventory (ENCS): Not determined.Japan inventory (ISHL): Not determined.
China: All components are listed or exempted.Europe: All components are listed or exempted.Japan: Japan inventory (ENCS): Not determined.
Europe: All components are listed or exempted.Japan: Japan inventory (ENCS): Not determined.
Japan : Japan inventory (ENCS): Not determined.
• • • • •
Malaysia : Not determined.
<b>New Zealand</b> : All components are listed or exempted.
Philippines : All components are listed or exempted.
<b>Republic of Korea</b> : All components are listed or exempted.
Taiwan: Not determined.
Thailand : Not determined.
Turkey : Not determined.
Viet Nam     : Not determined.

### Section 16. Other information

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



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### Procedure used to derive the classification

	Justifi	cation				
Not classified.						
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# Section 16. Other information

<u>History</u>	
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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 = Internediate 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.

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