# **SAFETY DATA SHEET**



# Section 1. Identification

GHS product identifier	: Mystik® JT-9® LeakShield® AW Hydraulic Oil, ISO 68
Synonyms	: Hydraulic Oil
Material uses	: Hydraulic systems.
Code	: 663305002

Relevant identified uses of the substance or mixture and uses advised against Not applicable.

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	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	: Not classified.

GHS label elements						
Signal word	o signal word.					
Hazard statements	No known significant effects or critical hazards.					
Precautionary statements						
General	eep out of reach of children.					
Prevention	o not get in eyes, on skin, or on clothing.					
Response	ash with plenty of soap and water or use a recognized skin cleanser.					
Storage	tore in accordance with all local, regional, national and international regulations. State a dry place and a closed container. Empty containers may contain material residue which can ignite with explosive force. Misuse of empty containers can be dangerous sed to store toxic, flammable, or reactive materials. Cutting or welding of empty containers can cause fire, explosion, or release of toxic fumes from residues. Do not ressurize or expose empty containers to open flame, sparks, or heat. Keep containers losed and drum bungs in place. All label warnings and precautions must be observent entry drums to a qualified reconditioner. Consult appropriate federal, state a focal authorities before reusing, reconditioning, reclaiming, recycling, or disposing of mpty containers and/or waste residues of this material.	ues s if ot ner /ed. and				
Disposal	ispose of contents and container in accordance with all local, regional, national and ternational regulations.	Ł				
Hazards not otherwise classified	njection of pressurized hydrocarbons can cause severe permanent tissue damage. nitial symptoms may be minor. Injection of petroleum hydrocarbons requires nmediate medical attention.					

## Section 3. Composition/information on ingredients

### Substance/mixture Other means of identification

: Mixture

: Hydraulic Oil

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

CAS number

: Not applicable.

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

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

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 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/e	effects, acute and delayed
Potential acute health effect	<u>ets</u>
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.
<u>Over-exposure signs/symp</u>	<u>otoms</u>
Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.
Indication of immediate med	dical attention and special treatment needed, if necessary
Notes to physician	: 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.
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)

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# Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
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 sulfur oxides phosphorus oxides metal oxide/oxides
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, protec	<u>tive</u>	equipment and emergency procedures
For non-emergency personnel	l e	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	ę	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	á	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	ntai	inment and cleaning up
Small spill	i F	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up f 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 container.
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 icensed waste disposal contractor. Note: see Section 1 for emergency contact nformation and Section 13 for waste disposal.

# Section 7. Handling and storage

Precautions for safe hand	ling					
Protective measures	: Put on ap	propriate personal protectiv	ve equipment (see S	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.					ating,	
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# Section 7. Handling and storage

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.
	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**

Distillates (petroleum), hydrotreated heavy paraffinic

### ACGIH TLV (United States, 1/2021).

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, 10/2020). 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 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 meas	<u>ures</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: 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.
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	: Avoid skin contact with liquid. 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. Leather boots are not protective for liquid contact.

### Section 8. Exposure controls/personal protection

**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

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

<u>Appearance</u>	
Physical state	: Liquid.
Color	: Green.
Odor	: Mild petroleum odor
рН	: Not available.
Boiling point, initial boiling point, and boiling range	: Not available.
Flash point	: Open cup: 242°C (467.6°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)
Relative vapor density	: >1 [Air = 1]
Relative density	: 0.88
Density lbs/gal	: Estimated 7.34 lbs/gal
Density gm/cm <sup>3</sup>	: Not available.
Gravity, °API	: Estimated 29 @ 60 F
Solubility	: Insoluble in the following materials: cold water.
Auto-ignition temperature	: Not available.
Viscosity	: Kinematic (40°C (104°F)): 68 mm²/s (68 cSt)
Viscosity SUS	: Estimated 315 SUS @104 F
Flow time (ISO 2431)	: Not available.
Particle characteristics	
Median particle size	: Not applicable.

# 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
Distillates (petroleum), hydrotreated heavy paraffinic	LD50 Dermal	Rat	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Conclusion/Summary	: Distillates (petroleum) highly refined oils are re Effects from single and oil mists well above app reaction, lipoid granulon studies involving expose current work place expo	ported to have low acu short-term repeated ex licable workplace exponent na formation and lipoid ures to lower concentration	te and sub-acute tox posures to high con- sure levels include lu pneumonia. In acut ations of mineral oil n	ticities in animals. centrations of minera ung inflammatory e and sub-acute nists at or near
Irritation/Corrosion				
Not available.				
Skin	: No additional informatio	n.		
Eyes	: No additional informatio	n.		
Respiratory	: No additional informatio	n.		
Sensitization				
Not available.				
Skin	: No additional informatio	n.		
Respiratory	: No additional informatio	n.		
<u>Mutagenicity</u>				
Not available.				
Conclusion/Summary	: No additional informatio	n.		
Carcinogenicity Not available.				
Conclusion/Summary Reproductive toxicity Not available.	: No additional informatio	n.		
Conclusion/Summary <u>Teratogenicity</u> Not available.	: No additional informatio	n.		
Conclusion/Summary	: No additional informatio	n.		
Specific target organ toxicity	<u>(single exposure)</u>			
Not available.				
Specific target organ toxicity Not available.	<u>(repeated exposure)</u>			
Aspiration hazard Not available.				
nformation on the likely outes of exposure	: Routes of entry anticipa	ted: Dermal.		
Potential acute health effects				
Eye contact	: No known significant eff	ects or critical hazards		
Inhalation	: No known significant eff	ects or critical hazards	i.	

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# Section 11. Toxicological information

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.

Delayed and immediate effects 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.		
Potential chronic health eff	<u>s</u>		
Not available.			
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.		

### **Numerical measures of toxicity**

Acute toxicity estimates N/A

# Section 12. Ecological information

Soil/water partition coefficient (Koc)	: Not availa	able.		
Mobility in soil				
Not available.				
<b>Bioaccumulative potential</b>				
Conclusion/Summary	: Not availa	able.		
Persistence and degradabi	ility			
Conclusion/Summary	: Not availa	able.		
Not available.				
<u>Toxicity</u>				

## Section 12. Ecological information

Other adverse effects

: No known significant effects or critical hazards.

### Section 13. Disposal considerations

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Disposal methods
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: 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.

Transport in bulk according : Not available. to IMO instruments

### Section 15. Regulatory information

U.S. Federal regulations	:	United States inventory (TSCA 8b): All components are listed or exempted. Clean Water Act (CWA) 307: Zinc alkyldithiophosphate ; toluene; naphthalene; benzene Clean Water Act (CWA) 311: toluene; naphthalene; benzene
		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

# Section 15. Regulatory information

Composition	/information	on ingredients

SARA 304 RQ

: Not applicable.

### SARA 311/312

Classification

: HNOC - Injection Hazards

### Composition/information on ingredients

No products were found.

### **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.

### 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	No significant risk level	Maximum acceptable dosage level
toluene	<0.001	No.	Yes.	-	Yes.
ethyl acrylate	<0.001	Yes.	No.	-	-
naphthalene	trace	Yes.	No.	Yes.	-
benzene	trace	Yes.	Yes.	Yes.	Yes.

**International regulations** 

### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

### Inventory list

United States	All components are listed or exempted.
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 (CSCL): At least one component is not listed. Japan inventory (ISHL): Not determined.
Malaysia	Not determined
New Zealand	All components are listed or exempted.
Philippines	All components are listed or exempted.
Republic of Korea	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

Classification		Justification	
Not classified.			
History			
Date of printing	: 2/24/2023		
Date of issue/Date of revision	: 2/24/2023		
Date of previous issue	: 2/24/2023		
Version	: 10		
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification IATA = International Air Transport Association IBC = International Air Transport Association IBC = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coe MARPOL = International Convention for the Preventic as modified by the Protocol of 1978. ("Marpol" = marin UN = United Nations	fficient on of Pollution From Ships, 1973	
References	: Not available.		

✓ Indicates information that has changed from previously issued version.

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