# **SAFETY DATA SHEET**



### Section 1. Identification

GHS product identifier	: Clarion® Food Machinery AW 100
Synonyms	: Hydraulic Oil Industrial white oil
Code	: 633544009

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 (M-F, 8 AM to 4 PM) Medical Emergency: (832) 486-4700 (24 Hr) CHEMTREC Emergency: (800) 424-9300 (24 Hr) (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	: No signal word.
Hazard statements	: No known significant effects or critical hazards.
Precautionary statements	
Prevention	: Not applicable.
Response	: Not applicable.
Storage	: Not applicable.
Disposal	: Not applicable.
Hazards not otherwise classified	: Injection of pressurized hydrocarbons can cause severe permanent tissue damage. Initial symptoms may be minor. Injection of petroleum hydrocarbons requires immediate medical attention.

### Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of	: Hydraulic Oil Industrial white oil
identification	

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

CAS number	: Not applicable.		
Ingredient name		%	CAS number
White mineral oil (petroleum)		≥90	8042-47-5
* = Various ** = Mixture	*** = Proprietary		

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

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

### Section 3. Composition/information on ingredients

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	<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>		

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

Most important sympto	ms/effects, acute and delayed			
Potential acute health	<u>effects</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.			
Over-exposure signs/s	Over-exposure signs/symptoms			
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	: 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)

### Section 5. Fire-fighting measures

Extinguishing media					
Suitable extinguishing media	: Use an ex	tinguishing agent suitable	for the surrounding	fire.	
Unsuitable extinguishing media	: None kno	wn.			
Specific hazards arising from the chemical	: In a fire of	if heated, a pressure incr	ease will occur and t	he container may burst.	
Hazardous thermal decomposition products	: Decompo carbon dio carbon m phosphore	onoxide	e the following mate	rials:	
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### 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, 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	ntainment 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

: Pu	ut on appropriate personal protective equipment (see Section 8).
ha dr en	ating, drinking and smoking should be prohibited in areas where this material is andled, stored and processed. Workers should wash hands and face before eating, inking and smoking. Remove contaminated clothing and protective equipment before atering eating areas. See also Section 8 for additional information on hygiene easures.
dii (se up co ma Bu re	ore in accordance with local regulations. Store in original container protected from rect sunlight in a dry, cool and well-ventilated area, away from incompatible materials ee Section 10) and food and drink. Keep container tightly closed and sealed until ady for use. Containers that have been opened must be carefully resealed and kept oright to prevent leakage. Do not store in unlabeled containers. Use appropriate ontainment to avoid environmental contamination. See Section 10 for incompatible aterials before handling or use. ulk Storage Conditions: Maintain all storage tanks in accordance with applicable gulations. Use necessary controls to monitor tank inventories. Inspect all storage nks on a periodic basis. Test tanks and associated piping for tightness. Maintain the itomatic leak detection devices to assure proper working condition.
	: Pu : Ea dr er m : St dii (s re up cc m Bu re ta

# Section 8. Exposure controls/personal protection

#### Control parameters

Occupational exposure lim	its
White mineral oil (petroleum	) OSHA PEL (United States, 5/2018). TWA: 5 mg/m <sup>3</sup> 8 hours. ACGIH TLV (United States, 1/2021). TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Inhalable fraction 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 measured	res
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.
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.

#### **Appearance**

Physical state	: Liquid.
Color	: Colorless.
Odor	: Practically Odorless
рН	: Not available.

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Clarion® Food Machinery AW 100	
Boiling point, initial boiling point, and boiling range	: Not available.
Flash point	: Open cup: 210°C (410°F) [Cleveland]
Lower and upper explosive (flammable) limits	: Not available.
Vapor pressure	: <0.0013 kPa (<0.01 mm Hg)
Relative vapor density	: >1 [Air = 1]
Relative density	: 0.87
Density lbs/gal	: 7.28 lbs/gal
Density gm/cm <sup>3</sup>	: Not available.
Gravity, °API	: 30.6
Auto-ignition temperature	: Lowest known value: 325 to 355°C (617 to 671°F) (White mineral oil (petroleum)).
Viscosity	: Kinematic (40°C (104°F)): 100 mm²/s (100 cSt)
Viscosity SUS	: 500 SUS @100 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
White mineral oil (petroleum)	LD50 Dermal LD50 Oral	Rabbit Rat	>2000 mg/kg >5000 mg/kg	-
Conclusion/Summary	<ul> <li>White mineral oil (petroleum): 25,45,50,70] DRAIZE EYE, Acute: Non-irritat DRAIZE DERMAL, Acute: Non- BUEHLER, Acute: Non-sensitiz 28-Day DERMAL, Sub-Chronic: 104-Week DERMAL, Chronic: N MUTAGENICITY: Modified Ames Assay: Nega in-vitro Lymphoma Assay: Nega in-vitro Lymphoma Assay: Nega Lifetime mouse skin painting stu or carcinogenic. Mineral oil mist low acute and sub-acute toxicitie</li> </ul>	ing [Rabbit]. irritating [Rabbit]. ing [Guinea Pig]. Non-irritating [Ra lo skin tumors at tive [Salmonella ty egative or no toxic dies indicated tha s derived from hig s in animals. Effe	bbit]. site of application [I /phimurium]. sity [Mouse]. t white mineral oils ghly refined oils are acts from single and	Mouse]. are not mutagenic reported to have a short-term
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### Section 11. Toxicological information

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. In long term studies (up to two years) no carcinogenic effects have been reported in any animal species tested.

Irritation/Corrosion	
Not available.	
Skin	: No additional information.
Eyes	: No additional information.
Respiratory	: No additional information.
<b>Sensitization</b>	
Not available.	
Skin	: No additional information.
Respiratory	: No additional information.
Mutagenicity	
Not available.	
Conclusion/Summary	: No additional information.
<b>Carcinogenicity</b>	
Not available.	
Conclusion/Summary	: No additional information.
Reproductive toxicity	
Not available.	
Conclusion/Summary	: No additional information.
Teratogenicity	
Not available.	
Conclusion/Summary	: No additional information.
Specific target organ tox	<u>icity (single exposure)</u>
Not available.	
Specific target organ tox	icity (repeated exposure)
Not available.	
Aspiration hazard	
Not available.	
Information on the likely	: Not available.
routes of exposure	
Potential acute health effe	
Eye contact	: No known significant effects or critical hazards.
Inhalation Skin contact	: 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 p	physical, chemical and toxicological characteristics
Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: No specific data.

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### Section 11. Toxicological information

#### 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>ts</u>				
Not available.					
General					
General	: No known significant effects or critical hazards.				
Carcinogenicity	No known significant effects or critical hazards.				
	5				
Carcinogenicity	: No known significant effects or critical hazards.				
Carcinogenicity Mutagenicity	<ul> <li>No known significant effects or critical hazards.</li> <li>No known significant effects or critical hazards.</li> </ul>				

#### Numerical measures of toxicity

#### Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	(vapors)	Inhalation (dusts and mists) (mg/ I)
Clarion® Food Machinery AW 100	N/A	2518.7	N/A	N/A	N/A
White mineral oil (petroleum)	N/A	2500	N/A	N/A	N/A

# Section 12. Ecological information

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
White mineral oil (petroleum)	LC50 >2000 mg/l	Fish	96 hours
Conclusion/Cummons	. Net evelleble		

**Conclusion/Summary** : Not available.

#### Persistence and degradability

Conclusion/Summary	: Not available.		
Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
White mineral oil (petroleum)	-	-	Not readily

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
White mineral oil (petroleum)	>6	-	high

#### Mobility in soil

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### Section 12. Ecological information

Soil/water partition coefficient (Koc) : Not available.

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.

Special precautions for user	1	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: mercury; lead powder; arsenic; chromium; Cadmium (Non-pyrophoric) 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

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### Section 15. Regulatory information

#### SARA 304 RQ

: Not applicable.

#### SARA 311/312

Classification

: HNOC - Injection Hazards

#### **Composition/information on ingredients**

No products were found.

#### **SARA 313**

	Product name	CAS number	%
Form R - Reporting requirements	mercury	7439-97-6	trace

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

#### 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 Lead, which is known to the State of California to cause cancer, and Mercury and mercury compounds, 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
mercury lead powder arsenic	trace trace trace	No. Yes. Yes.	Yes. Yes. No.	- Yes. Yes.	- Yes. -
Cadmium (Non- pyrophoric)	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	:	Not determined.
Europe	:	All components are listed or exempted.
Japan	:	Japan inventory (CSCL): Not determined. 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.

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# Section 15. Regulatory information

# Section 16. Other information

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



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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		
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Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Class IATA = International Air Transport Associatio IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Go LogPow = logarithm of the octanol/water part MARPOL = International Convention for the F as modified by the Protocol of 1978. ("Marpol UN = United Nations	n oods ition coefficient Prevention of Pollution From Ships, 1973
References	: Not available.	

✓ Indicates information that has changed from previously issued version.

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