SAFETY DATA SHEET

Clarion[®] PM Hi-Temp Food Machinery 100 Grease, NLGI 1



Section 1. Identification

GHS product identifier	: Clarion [®] PM Hi-Temp Food Machinery 100 Grease, NLGI 1
Synonyms	: Lubricating grease; CITGO [®] Material Code: 655721009
Code	: 655721009
MSDS #	: 655721009
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	:	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	:	Injection of pressurized hydrocarbons can cause severe permanent tissue damage. Initial symptoms may be minor.
Precautionary statements		
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	:	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	: Lubricatir CITGO [®] I	ng grease; Material Code: 655721009	
CAS number/other identified	<u>ers</u>		
CAS number	: Not appli	cable.	
Date of issue/Date of revision	: 6/25/2020	Date of previous issue	: 11/12/2019

Section 3. Composition/information on ingredients

CAS number	%	Ingredient name		
8042-47-5	≥75 - ≤90	White mineral oil (petroleum)		
68647-58-5	≤10	Aluminum, benzoate hydrogenated tallow fatty acid iso-Pr alc. complexes		
471-34-1	≤8.1	calcium carbonate		
128-37-0	≤1.8	2,6-di-tert-butyl-p-cresol		
-		2,6-di-tert-butyl-p-cresol * = 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 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	<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.	
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	: 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 extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: No specific fire or explosion hazard.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide 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, protect	ctive 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	ontainment and cleaning up
Small spill	 Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
Large spill	: Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. 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 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.

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: Do not apply heat or flame to stockpiled material. Rotate stock to reduce the potential for hot spots. Do not store with oxidizers. Minimize dust creation by keeping material moist and/or covered.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
White mineral oil (petroleum)	OSHA PEL (United States, 5/2018).
	TWA: 5 mg/m ³ 8 hours.
	ACGIH TLV (United States, 3/2019).
	TWA: 5 mg/m ³ 8 hours. Form: Inhalable
	fraction
	NIOSH REL (United States, 10/2016).
	TWA: 5 mg/m ³ 10 hours. Form: Mist
	STEL: 10 mg/m ³ 15 minutes. Form: Mist
Aluminum, benzoate hydrogenated tallow fatty acid iso-Pr alc.	ACGIH TLV (United States).
complexes	TWA: 10 mg/m ³ 8 hours.
	NIOSH REL (United States, 10/2016).
	TWA: 2 mg/m ³ , (as AI) 10 hours.
calcium carbonate	NIOSH REL (United States, 10/2016).
	TWA: 5 mg/m ³ 10 hours. Form: Respirable
	fraction
	TWA: 10 mg/m ³ 10 hours. Form: Total
2,6-di-tert-butyl-p-cresol	ACGIH TLV (United States, 3/2019).
	TWA: 2 mg/m ³ 8 hours. Form: Inhalable
	fraction and vapor
	NIOSH REL (United States, 10/2016).
	TWA: 10 mg/m ³ 10 hours.

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

industrial settings. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: 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

Date of issue/Date of revision

Section 8. Exposure controls/personal 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	: Avoid inhalation of gases, vapors, mists or dusts. Use a properly fitted, particulate filter 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

<u>Appearance</u>	
Physical state	: Solid.
Color	: Off-white.
Odor	: Faint odor.
рН	: Not available.
Boiling point	: Not available.
Flash point	: Open cup: >150°C (>302°F) [Estimated]
Evaporation rate	: >1 (butyl acetate = 1)
Lower and upper explosive (flammable) limits	: Not available.
Vapor pressure	: <0.13 kPa (<1 mm Hg) [room temperature]
Vapor density	: >1 [Air = 1]
Relative density	: 0.93
Density lbs/gal	: Estimated 7.75 lbs/gal
Density gm/cm ³	: Not available.
Gravity, °API	: Estimated 21 @ 60 F
Solubility	: Insoluble in the following materials: cold water.
Flow time (ISO 2431)	: Not available.
NLGI Grade	: 1

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

Result	Species	Dose	Exposure
LD50 Dermal	Rabbit	>2000 mg/kg	-
LD50 Oral	Rat	>5000 mg/kg	-
LD50 Oral	Rat	6450 mg/kg	-
LD50 Oral	Mouse	•••	-
LD50 Oral	Rat	890 mg/kg	-
LD50 Oral	Rat	890 mg/kg	-
: White mineral oil (per 25,45,50,70]	troleum): Low-viscosity	00	- /hite Mineral (
	LD50 Dermal LD50 Oral LD50 Oral LD50 Oral LD50 Oral LD50 Oral LD50 Oral : White mineral oil (per 25,45,50,70]	LD50 DermalRabbitLD50 OralRatLD50 OralRatLD50 OralMouseLD50 OralRatLD50 OralRatLD50 OralRatLD50 OralLD50 OralLOW-viscosity25,45,50,70]LOW-viscosity	LD50 DermalRabbit>2000 mg/kgLD50 OralRat>5000 mg/kgLD50 OralRat6450 mg/kgLD50 OralMouse650 mg/kgLD50 OralRat890 mg/kgLD50 OralRat890 mg/kgLD50 OralRat890 mg/kgLD50 OralRat890 mg/kgLD50 OralRat890 mg/kg

DRAIZE DERMAL, Acute: Non-irritating [Rabbit].

BUEHLER, Acute: Non-sensitizing [Guinea Pig].

28-Day DERMAL, Sub-Chronic: Non-irritating [Rabbit].

104-Week DERMAL, Chronic: No skin tumors at site of application [Mouse].

MUTAGENICITY:

Modified Ames Assay: Negative [Salmonella typhimurium]. in-vitro Lymphoma Assay: Negative or no toxicity [Mouse].

Lifetime mouse skin painting studies indicated that white mineral oils are not mutagenic or carcinogenic. 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. In long term studies (up to two years) no carcinogenic effects have been reported in any animal species tested.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
calcium carbonate	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
	Eyes - Mild irritant	Rabbit	-	-	-
	Respiratory - Irritant	Rabbit	-	-	-
2,6-di-tert-butyl-p-cresol	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
				mg	
	Skin - Mild irritant	Human	-	48 hours 500	-
	Skin - Moderate irritant	Rabbit		mg 48 hours 500	
	Skill - Moderate Initalit	Rabbit	-	mg	-
				mg	
Skin	: No additional information.				
Eyes	: No additional information.				
Respiratory	: No additional information.				
Sensitization					
Not available.					
Not available.					
Skin	: No additional information.				
Respiratory	: No additional information.				
<u>Mutagenicity</u>					
Not available.					
Conclusion/Summary	: No additional information.				
Carcinogenicity					
Not available.					

Section 11. Toxicological information

	U					
Conclusion/Summary Classification	: No addi	tional infor	mation.			
	0844		NTD			
Product/ingredient name	OSHA	IARC	NTP			
2,6-di-tert-butyl-p-cresol	-	3	-			
Reproductive toxicity Not available.						
Conclusion/Summary Teratogenicity Not available.	: No addi	tional infor	mation.			
Conclusion/Summary	: No addi	tional infor	mation.			
Specific target organ toxici Not available.	<u>ty (single e</u>)	<u>xposure)</u>				
Specific target organ toxici Not available.	<u>ty (repeated</u>	<u>l exposur</u>	<u>e)</u>			
Aspiration hazard Not available.						
Information on the likely routes of exposure	: Routes	of entry an	ticipated: Dermal.			
Potential acute health effects	<u>s</u>					
Eye contact	: No knov	wn significa	ant effects or critica	al hazards.		
Inhalation	: No knov	wn significa	ant effects or critica	al hazards.		
Skin contact			rized hydrocarbon ay be minor.	s can cause severe	permanent tissue damag	je.
Ingestion	•	•	ant effects or critica	al hazards.		
Symptoms related to the phy	<u>/sical, cher</u>	nical and t	oxicological char	acteristics		
Eye contact	: No spec	cific data.				
Inhalation	: No spec	cific data.				
Skin contact	: No spec	cific data.				
Ingestion	: No spec	cific data.				
Delayed and immediate effect	ts and also	chronic e	effects from short	t and long term exp	osure	
<u>Short term exposure</u>						
Potential immediate effects	: Not avai	ilable.				
Potential delayed effects	: Not avai	ilable.				
Long term exposure						
Potential immediate effects	: Not avai	ilable.				
Potential delayed effects	: Not avai	ilable.				
Potential chronic health eff	<u>ects</u>					
Not available.	_					
General	: No knov	wn significa	ant effects or critica	al hazards.		
Carcinogenicity	: No knov	wn significa	ant effects or critica	al hazards.		
Mutagenicity	: No know	wn significa	ant effects or critica	al hazards.		
Teratogenicity	: No know	wn significa	ant effects or critica	al hazards.		
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Section 11. Toxicological information

Developmental effects Fertility effects

: No known significant effects or critical hazards.

: No known significant effects or critical hazards.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
White mineral oil (petroleum) calcium carbonate	LC50 >2000 mg/l Acute LC50 >56000 ppm Fresh water	Fish Fish - Gambusia affinis - Adult	96 hours 96 hours
	Chronic NOEC 61 mg/g Fresh water	Fish - Oncorhynchus mykiss - Juvenile (Fledgling, Hatchling, Weanling)	28 days
2,6-di-tert-butyl-p-cresol	Acute EC50 1440 µg/l Fresh water	Daphnia - Daphnia pulex - Neonate	48 hours
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
2,6-di-tert-butyl-p-cresol	5.1	330 to 1800	high

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 available.	Not available.
UN proper shipping name	-	Not available.	Not available.
Transport hazard class(es)	-	Not available.	Not available.
Packing group	-	-	-
Environmental hazards	No.	No.	No.

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 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

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.

		o surface waters 24-8802.	must be reported to the EPA's National Response Center at (800)	
SARA 302/304				
Composition/information	<mark>i on ing</mark>	redients		
SARA 304 RQ	: No	t applicable.		
<u>SARA 311/312</u>				
Classification	: No	ot applicable.		
Composition/information	<u>on ing</u>	redients		
Name		%	Classification	
calcium carbonate		≤8.1	SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A	
2,6-di-tert-butyl-p-cresol		≤1.8	ACUTE TOXICITY (oral) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A	
tate regulations				
Massachusetts	: Th	e following com	ponents are listed: 2,6-di-tert-butyl-p-cresol	
New York	: No	one of the compo	onents are listed.	
New Jersey	: The following components are listed: 2,6-DI-tert-BUTYL-p-CRESOL; PHENOL, 2,6-BIS (1,1-DIMETHYLETHYL)-4-METHYL-			
Pennsylvania		e following com METHYL-	ponents are listed: PHENOL, 2,6-BIS(1,1-DIMETHYLETHYL)	
California Prop. 65 Clear a	and Rea	sonable Warni	<u>ngs (2018)</u>	

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Section 15. Regulatory information

Ingredient name	%	Cancer	-	Maximum acceptable dosage level

International regulations

<u>inventory list</u>				
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 (ENCS): Not determined. Japan inventory (ISHL): Not determined.			
Malaysia	: Not determined.			
New Zealand	: Not determined.			
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	: 6/25/2020	
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Version	: 3	

Section 16. Other information

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 = Intermediate 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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