

Inhibited GD Two-Cycle Engine Oil Material Safety Data Sheet

CITGO Petroleum Corporation P.O. Box 4689 Houston, TX 77210

MSDS No. **Revision Date** 625491001

Hazard Rankings

Health Hazard

HMIS NFPA

1

* 1

3/22/2006

IMPORTANT: Prepared in accordance with 29 CFR 1910.1200. Read this MSDS before handling or disposing of this product and pass this information on to employees, customers and users of this product.

				Fire Hazard	2	2
	Emergency Overview			Reactivity	0	0
Physical State	Liquid.	·····				
Color	Blue-green.	Odor	Petroleum.	* = Chronic Health	Hazard	
WARNING:				Protective E	quipm	nent
Harmful if sw If swallowed immediately Combustible Heated mate ignite with e Vapor or mis tract irritatio	l, DO NOT indu e Liquid. erial can release xplosive force. sts can cause r	enter lungs ce vomiting e vapor that nucous mer	s and cause damage. g. Call a physician t can cause flash fire or mbrane and respiratory			

SECTION 1. PRODUCT IDENTIFICATION

Trade Name	Inhibited GD Two-Cycle Engine Oil	Technical Contact	(800) 248-4684
Product Number	625491001	Medical Emergency	(832) 486-4700
CAS Number	Mixture.	CHEMTREC Emergency (United States Only)	(800) 424-9300
Product Family	Two cycle engine oil		
Synonyms	Two cycle engine oil; CITGO [®] Material Code No.: 625491001		

SECTION 2. COMPOSITION

Component Name(s)	CAS Registry No.	Concentration (%)
Distillates, petroleum, solvent-refined heavy paraffinic	64741-88-4	40 - 60
Polybutene	9003-29-6	20 - 40
Petroleum hydrocarbon distillates	8052-41-3	10 - 30
Proprietary Ingredients	Proprietary Mixture	<10
Distillates, petroleum, hydrotreated heavy paraffinic	64742-54-7	<10

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Eye Contact	Check for and remove contact lenses. Flush eyes with cool, clean, low-pressure water while occasionally lifting and lowering eyelids. Seek medical attention if excessive tearing, redness, or pain persists.
Skin Contact	If burned by hot material, cool skin by quenching with large amounts of cool water. For contact with product at ambient temperatures, remove contaminated shoes and clothing. Wipe off excess material. Wash exposed skin with mild soap and water. Seek medical attention if tissue appears damaged or if pain or irritation persists. Thoroughly clean contaminated clothing before reuse. Discard contaminated leather goods. If material is injected under the skin, seek medical attention immediately.
Ingestion	Do not induce vomiting unless directed to by a physician. Do not give anything to drink unless directed to by a physician. Never give anything by mouth to a person who is not fully conscious. If significant amounts are swallowed or irritation or discomfort occurs, seek medical attention immediately.
Notes to Physician	INGESTION: The viscosity range of the product(s) represented by this MSDS is greater than 100 SUS at 100°F. There is a low risk of aspiration upon ingestion. Careful gastric lavage or emesis may be considered to evacuate large quantities of material.

SECTION 5. FIRE FIGHTING MEASURES

NFPA Flammability Classification	NFPA Class-IIIA combustible li	quid.		
Flash Point	Closed cup: 68°C (154°F). (Pe (Cleveland.).	nsky-Martens (ASTM D-93))	Open cup: 84°C (183°F)	
Lower Flammable Limit	No data.	Upper Flammable Limit	No data.	
Autoignition Temperature	Not available.			
Hazardous Combustion Products	Carbon dioxide, carbon monox of sulfur and/or nitrogen.	ide, smoke, fumes, unburned	d hydrocarbons and trace oxides	
Special Properties	This material will release vapors when heated above the flash point temperature that can ignite when exposed to a source of ignition. In enclosed spaces, vapors can ignite with explosive force. Mists or sprays may burn at temperatures below the flash point.			
Extinguishing Media	 SMALL FIRE: Use dry chemicals, carbon dioxide, foam, or inert gas (nitrogen). Carbon dioxide and inert gas can displace oxygen. Use caution when applying carbon dioxide or inert gas in confined spaces. LARGE FIRE: Use foam, water fog, or water spray. Water fog and spray are effective in cooling containers and adjacent structures. However, water can cause frothing and/or may not extinguish the fire. Water can be used to cool the external walls of vessels to prevent excessive pressure, autoignition or explosion. DO NOT use a solid stream of water directly on the fire as the water may spread the fire to a larger area. 			
Protection of Fire Fighters	Firefighters must use full bunke self-contained breathing appara decomposition products and ox there is a rising sound from a ve pipelines.	tus to protect against potent ygen deficiencies. Withdraw	ial hazardous combustion or / immediately from the area if	

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Body Protection	Use clean protective clothing if splashing or spraying conditions are present. Protective clothing may include long-sleeve outer garment, apron, or lab coat. If significant contact occurs, remove oil-contaminated clothing as soon as possible and promptly shower. Launder contaminated clothing before reuse or discard. Wear heat protective boots and protective clothing when handling material at elevated temperatures.			
Respiratory Protection	The need for respiratory protection is not anticipated under normal use conditions and with adequate ventilation. If elevated airborne concentrations above applicable workplace exposure levels are anticipated, a NIOSH-approved organic vapor respirator equipped with a dust/mist prefilter should be used. Protection factors vary depending upon the type of respirator used. Respirators should be used in accordance with OSHA requirements (29 CFR 1910.134).			
General Comments	Use good personal hygiene practices. Wash hands and other exposed skin areas with plenty of mild soap and water before eating, drinking, smoking, use of toilet facilities, or leaving work. DO NOT use gasoline, kerosene, solvents or harsh abrasives as skin cleaners. Since specific exposure standards/control limits have not been established for this product, the "Oil Mist, Mineral" exposure limits shown below are suggested as minimum control guidelines.			
Occupational Exposure Guidelines				

Substance	Applicable Workplace Exposure Levels
Oil Mist, Mineral	ACGIH (United States).
	TWA: 5 mg/m ³
	STEL: 10 mg/m ³
	OSHA (United States).
	TWA: 5 mg/m ³
Petroleum hydrocarbon distillates	ACGIH (United States).
	TWA: 100 ppm
	OSHA (United States).
	TWA: 500 ppm

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES (TYPICAL)

Physical State	Liquid.	Color	Blue-green		Odor	Petroleum.
Specific Gravity	0.87 (Water = 1)	рН	Not Applica	able.	Vapor Density	>1 (Air = 1)
Boiling Range	Not available.			Melting/ Point	Freezing	Not availabie.
Vapor Pressure	<0.1 kPa (<1 mm Hg)	(at 20°C)		Volatilit	У	135 g/I VOC (w/v)
Solubility in Water	Negligible solubility in	cold wate	r.	Viscosii (cSt @ 4	,	77
Flash Point	Closed cup: 68°C (154°F). (Pensky-Martens (ASTM D-93)). Open cup: 84°C (183°F) (Cleveland.).					
Additional Properties	Gravity, °API (ASTM D287) = 31.3 @ 60° F Density = 7.24 Lbs/gal.					

Density = 7.24 Lbs/gal. Viscosity (ASTM D2161) = 400 SUS @ 100° F

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity Analysis for ecological effects has not been conducted on this product. However, if spilled, this product and any contaminated soil or water may be harmful to human, animal, and aquatic life. Also, the coating action associated with petroleum and petroleum products can be harmful or fatal to aquatic life and waterfowl.

Environmental Fate An environmental fate analysis is not available for this specific product. Plants and animals may experience harmful or fatal effects when coated with petroleum products. Petroleum-based (mineral) lubricating oils normally will float on water in stagnant or slow-flowing waterways, an oil layer can cover a large surface area. As a result, this oil layer might limit or eliminate natural atmospheric oxygen transport into the water. With time, if not removed, oxygen depletion in the waterway may be sufficient to cause a fish kill or create an anaerobic environment.

SECTION 13. DISPOSAL CONSIDERATIONS

Hazard characteristic and regulatory waste stream classification can change with product use. Accordingly, it is the responsibility of the user to determine the proper storage, transportation, treatment and/or disposal methodologies for spent materials and residues at the time of disposition.

Conditions of use may cause this material to become a "hazardous waste", as defined by federal or state regulations. It is the responsibility of the user to determine if the material is a "hazardous waste" at the time of disposal. Transportation, treatment, storage, and disposal of waste material must be conducted in accordance with RCRA regulations (see 40 CFR 260 through 40 CFR 271). State and/or local regulations may be more restrictive. Contact your regional US EPA office for guidance concerning case specific disposal issues. Empty drums and pails retain residue. DO NOT pressurize, cut, weld, braze, solder, drill, grind, or expose this product's empty drums and pails should be drained completely, properly bunged or sealed, and promptly sent to a reconditioner.

SECTION 14. TRANSPORT INFORMATION

The shipping description below may not represent requirements for all modes of transportation, shipping methods or locations outside of the United States.

US DOT Status	A U.S. Department of Transportation regulated material.		
Proper Shipping Name	Combustible liquid, n.o.s. (contains Petroleum Distillates) [This product has a flash point temperature between 60.5° to 93°C (141° and 200°F). For bulk shipments, it is classified as a US DOT "Combustible Liquid." According to 49 CFR 173.150 (f)(2), certain transportation-related requirements, such as labeling, may not apply to this product when shipped in non-bulk packaging (e.g., less than 119 gallons capacity). However, pursuant to 49 CFR 173.150 (b) limited-quantities offered for or transported via aircraft may be subject to US DOT regulation.]		
Hazard Class	Combustible liquid.	Packing Group(s)	5 1
		UN/NA Number	NA 1993
Reportable Quantity	A Reportable Quantity (RQ) has not been established for this material.		

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SECTION 16. OTHER INFORMATION

Refer to the top of Page 1 for the HMIS and NFPA Hazard Ratings for this product.

REVISION INFORMATION	
Version Number	3.0
Revision Date	3/22/2006
Print Date	Printed on 3/22/2006.
ABBREVIATIONS	

AP: Approximately EQ: Equal >: Greater Than <: Less Than NA: Not Applicable ND: No Data NE: Not Established ACGIH: American Conference of Governmental Industrial Hygienists IARC: International Agency for Research on Cancer NIOSH: National Institute of Occupational Safety and Health

NPCA: National Paint and Coating Manufacturers Association

NEPA: National Fire Protection Association

AIHA: American Industrial Hygiene Association NTP: National Toxicology Program OSHA: Occupational Safety and Health Administration HMIS: Hazardous Materials Information System EPA: US Environmental Protection Agency

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