

Gary-Williams Energy Corp. 370 17th Street Suite 5300 Denver, CO 80202

			MSDS NUM	men.
MATERIAL SAFETY DATA SHEET	Octobe	er 20, 1999	Maria Num	W-3035
EMERGENCY TELEPHONE	1	CHEMTREC		
NUMBERS	405-665-6565		800/424-	.9300
I. PROD	UCT IDENTIFICAT	TION		
RODUCT		CHEMICAL NAME A		
DIESEL FUEL (CLE	AR)	# 2 Diesel Fuel,		ire, Distillate, 2- Oil
HEMICAL FAMILY Petroleum Hydrocarbo	n Distillate	FORMULA	C11 - C	20
ntional Fire Protection Association Huzard Rating Codes	HEALTH	CODE FIRE CODE		REACTIVITY CODE
east - 0 Slight - 1 foderate - 2 High - 3 Extreme - 4	- 0	2		0
piesel exhaust may cause eye irritation, headac ngling in the extremities, chest tightness and v arage workers without adequate ventilation (a or Hazardous Material	wheezing. Cough and	labored breathing ha garage.		DOT HAZARD CLASS
YES	Diesel Fuel, 3, NA1993, III			(Flammable Liquid)
III. HAZA	RDOUS COMPON	NENTS		
INGREDIENT	% RANGE	PE	LTLV	HAZARD
Straight Run Middle Distillate	60 to 100 %	Petroleum Distil	late	Combustible
(CAS # 64741-44-2)		TWA - 400 ppm	1	Acute Health Chronic Health
Light Catalytic Cracked Distillate (CAS # 64741-59-9)	0 to 40 %	Petroleum Distil TWA - 400 ppm		
Diesel exhaust contains: Nitrogen	Dioxide, Sulfuric Ac	id, Sulfur Dioxide, A	liphatic Aldeh	ydes, Soot containing

Polynuclear Aromatic Hydrocarbons, Carbon Monoxide, Hydrogen Sulfide.



EXPOSURE BY ROUTE OF ENTRY 370 17th Stro Suite 5300 Denver, CO

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IV. HEALTH INFORMATION

ROUTE OF ENTRY	EXPOSURE CHARACTERISTICS AND FIRST AID		
	EFFECTS	Acute: Headache, nasal and respiratory irritation, nausea, drowsiness, breathlessness, fatigue, central nervous system depression, convulsions, and loss of consciousness.	
INHALATION	FIRST AID	Move exposed person to fresh air. If breathing has stopped, perform artificial respiration. Get medical attention as soon as possible.	
SKIN	EFFECTS	Acute: irritation Chronic: dermatitis	
	FIRST AID	If clothing soaked, immediately remove clothing and wash skin with soap and water. Launder clothing before wearing. Get medical attention promptly.	
EYES	EFFECTS	Acute: irritation	
	FIRST AID	Immediately flush eyes with water for a minimum of 15 minutes, occasionally lifting the lower and upper lids. Get medical attention promptly.	
SWALLOWING INGESTION	EFFECTS	Acute: aspiration hazard, headache, nausea, drowsiness, fatigue, pneumonitis, pulmonary edema, central nervous system depression, convulsions and loss of consciousness.	
	FIRST AID	Call a physician immediately, ONLY induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person	
Medical conditions Generally Agravated by Exposure		N/AV	
JISTED AS POTENTIAL CARCINOGEN OR CARCINOGEN		NOT LISTED X NATIONAL TOXICOLOGY PROGRAM_ INTERNATIONAL Agency for Research on Cancer OSHA	



apparatus with positive pressure.

EYE

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V. EMPLOYEE PROTECTION

Up to 4000 ppm, half-mask organic vapor respirator. Up to 20,000 ppm, full-face organic vapor respirator or full-face supplied air respirator. Greater than 20,000 ppm, fire fighting, or unknown concentration, self-contained breathing

	THE EDITE TROTEOTION
ESPIRATORY PROTECTION	(NIOSH APPROVED RESPIRATORS SEE OSHA STD. 1910.134)

	Safety glasses, chemical goggles or face shield as appropriate.				
SKIN	Gloves: Nitrile, neoprene o	r other material resistant to distillat	e.		
		elow 400 ppm. Loading, unloading hygiene personnel to determine air			
	VI. FIRE PRO	TECTION INFORMATION			
FLASII POINT AND METHOD Tag Closed Cup 17	AUTOIGNITION TEMPERATURE ESTIMATED 30 ' F 490 'F	FLAMMABLE LIMITS % VOLUME IN AIR LOWER ESTIMATED 0.7			
EXTINGUISHING MEDIA		m may spread fire, use water spray	aulu ta acal containem		
		m may spread fire, use water spray vater spray to disperse the vapors.	only to cool containers		
HAZARDOUS DECOMPOSITION PRODUCTION PRODUCTIO	rs tion can yield carbon monoxide a	and various hydrocarbons.			
STORAGE	ole mixtures with air when heate				
Do not store w	ith strong oxidizers. Store as OS	SHA Class II combustible liquid.			
HAZARDOUS POLYMERIZATION WILL NOT OCCUR X MAY OCCUR		STABLE X	UNSTABLE		
	VII. PHYSICA	L AND CHEMICAL PROPERT	TES		
BOILING POINT 330 - 675 'F	Reid VAPOR PRESSURE (RVP) at 10 ESTIMATED less than 0.1		L ETHER = 1) Wer		
PERCENT VOLATILE BY VOLUME (%) 100	AVG. MOLECULAR WEIGHT N/A	APPEARANCE May	be clear to yellow-brov		
ODOR Diesel Fuel	Pour Point -25	to +10 °F ESTIMATED VAPOR DE	NSITY (AIR = 1)		
SPECIFIC GRAVITY 0.8 to	viscosity 0 0.9 2 to 4 cs at 100	'F SOLUBILITY (G/100g W. Neglig			



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VIII. ENVIRONMENTAL PROTECTION

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P	Notify emergency response personnel. Evacuate area and remove ignition
1	sources. Build dike to contain flow. Remove free liquid, do not flush
L	to sewer or open water. Pick up with inert absorbent and place in
L	closed container for disposal.
S	
D	
WI	Utilize licensed waste disposal company. Consider recycling or
A S	incineration. Utilize permitted hazardous waste disposal site or
S P	industrial waste disposal site as appropriate.
T O	
E S	
A	
L	

ADDITIONAL INFORMATION

The following chemicals are subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and reauthorization Act of 1986 and 40 CFR Part 372:

DATE PREPARED	
October 20, 19	

The information and recommendations contained in this publication have been compiled from sources beleived to be reliable and to represent the best current opinion on the subject at the time of publication Since we cannot anticipate or control the many different conditions under which this information or ou products may be used, we make no gurantee that the recommendations will be adequate for all individu or situations. Each user of the product described herein should determine the suitability of the describe

ABBRE	VIATIONS	
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produc		ular purpose and should comply with all federal and state rules and regulations bed product.
BBREVIATIONS	CAS#	Chemical Abstracts Service Number
	N/A	Not Applicable
	N/AV	Not Available
	ppm	Parts per million
	PEL	Permissible Exposure Limit
	TLV	Threshold Limit Value
		Both the OSHA PEL and the American Conference of Governmental Industria Hygienists TLV were reviewed. Where a difference existed, the more restrictive of the two was selected.
	STEL	Short Term Exposure Limit
	TWA	Time-Weighted Average