Valero Corporate Health and Safety P.O. Box 696000 San Antonio, TX 78269-6000



LEMMEN OIL CO

616 8377662

Sep 29, 2013

#### Attn: Safety/Right-To-Know Coordinator

Dear Customer:

Copies of Material Safety Data Sheet(s) (MSDS), which have been prepared in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200) are enclosed for the listed products manufactured by Valero. MSDS are being provided to you either :

- as a result of your being authorized to purchase the products,
- a result of your request for MSDS or
- in compliance with the supplier notification requirements in 40 CFR, Part 372, Subpart C.

Please compare the dates on the attached MSDS with those in your file and replace any older MSDS with the more recent one. OSHA regulations may require that you make the attached information available to your employees and/or your customers.

EPA Regulations 40 CFR, Part 372, in support of Section 313 of SARA, Title III, requires all manufacturers to notify suppliers annually of the concentrations of certain chemicals in products. The list of these chemicals can be found in 40 CFR 372.65. This notification is accomplished by an annual distribution (in January) of a report listing each product and the concentration of the regulated components.

The following MSDS are attached:

#### MSDS Number

Description

ULSD

Diesel Fuels

MSDS Assistance: (210)345-4593

# Lemmen Oil Company

ax	•	• .			
To: HO	Iland Pu	blic	From	Melodi	<u>e</u>
Fax	3910-119	a	Date:	11.21.13	>
Phone:			Pages	3 Dag	2 <b>0</b>
Re: MS	DSSheet	s	CCI		
🖸 Urgent	For Review	🗆 Please Co	mment	🗒 Piezse Reply	🗆 Piease Rec

ZE/T



## MATERIAL SAFETY DATA SHEET

### 1. Product and Company Identification

÷

n rodder and oomp	
Material name	DIESEL FUELS
Version #	03
issue date	09-November-2010
Revision date	25-June-2013
Supersedes date	04-November-2012
MSDS Number	102
Product use	Refinery feedstock.
Synonym(s)	Diesel Fuels All Grades, Diesel Fuel No.2, Fuel Oil No.2, High Sulfur Diesel Fuel, Low Sulfur Diesel Fuel, Ultra Low Sulfur Diesel Fuel, CARB (California Air Resource Board) Diesel Fuel, Off-Road Diesel Fuel, Dyed Diesel Fuel, X Grade Diesel Fuel, X-1 Diesel Fuel, R5 ULSD, B5 ULS D See section 16 for complete information.
Manufacturer/Supplier	Valero Marketing & Supply Company and Affiliates P.O. Box 696000 San Antonio, TX 78269-6000
General Assistance	210-345-4593
Emergency	24 Hour Emergency 866-565-5220 1-800-424-9300 (CHEMTREC USA)
2. Hazards identificat	ion
Physical state	Liquid.
Appearance	Liquid (may be dyed red).
Emergency overview	WARNING! Combustible liquid and vapor. May be ignited by heat, sparks or flames. Heat may cause the containers to explode.
	Harmful if inhaled or swallowed. May be harmful if absorbed through skin. Aspiration may cause lung damage. Irritating to eyes, respiratory system and skin. In high concentrations, vapors and spray mists are narcotic and may cause headache, fatigue, dizziness and nausea. Suspect cancer hazard - may cause cancer. Prolonged exposure may cause chronic effects. Diesel exhaust has been reported to be an occupational hazard due to NIOSH-reported potential carcinogenic properties. Hydrogen sulfide, a highly toxic gas, may be present or released. Signs and symptoms of overexposure to hydrogen sulfide include respiratory and eye irritation, dizziness, nausea, coughing, a sensation of dryness and pain in the noce, and loss of consciousness. Odor does not provide a reliable indicator of the presence of hazardous levels in the atmosphere. Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment. The toxicological properties of this material have not been fully investigated. Static accumulating flammable materials can become electrostatioally charged even in bonded and grounded equipment. Sparks may ignite material and vapor may cause flash fire (or explosion).
OSHA regulatory status	This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).
Potential health effects	
Routes of exposure	Inhalation. Ingestion. Skin contact. Eye contact.
Eyes	Contact may irritate or burn eyes. Eye contact may result in corneal injury.
Skin	May be harmful if absorbed through skin. Irritating to skin. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.
Inhalation	Harmful if inhaled. Irritating to respiratory system. In high concentrations, vapors and spray mists are narcotic and may cause headache, fatigue, dizziness and nausea. May cause breathing disorders and lung damage. May cause cancer by inhalation. Prolonged inhalation may be harmful.
Ingestion	Harmful if swallowed, ingestion may result in vomiting; aspiration (breathing) of vomitus into lungs must be avoided as even small quantities may result in aspiration pneumonitis. Irritating to mouth, throat, and stomach.
Target organs	Blood. Eyes. Liver. Respiratory system. Skin, Kidneys, Central nervous system.
Target organs DIESEL FUELS 3541 Prepared by 3E Company	Blood. Eyes. Liver. Respiratory system. Skin, Kidneys. Central nervous system.         Version #: 03       Revison date: 25-June-2013       Print date: 25-June-2013       1

Chronic effects	Suspect cancer hazard - may cause cancer. Liver injury may occur. Kidney injury may occur. Exposure may cause lung cancer and also noted a positive association with an increased risk of bladder cancer. May cause central nervous system disorder (e.g., nercosis involving a loss of coordination, weakness, fatigue, mental confusion and blurred vision) and/or damage. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.
Signs and symptoms	Initation of nose and throat. Initation of eyes and mucous membranes. Skin initation. Unconsciousness, Corneal damage. Narcosis. Decrease in motor functions. Behavioral changes. Edema, Liver enlargement Jaundice. Conjunctivitis. Proteinuria. Defatting of the skin. Rash. The toxicological properties of this product have not been thoroughly investigated. Use appropriate precautions.
Basha unking a substant substant and far start	The set of the second

Potential environmental effects Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

### 3. Composition / Information on Ingredients

1

CAS#	Percent
68476-34-6	85 - 100
67762-38-3	0-5
1159170-26-9	<u>0-5</u>
111-84-2	1-3
111-65-9	1-2
95-14-0	Q - 1
91-20-3	0 - 1
142-82-5	0-1
110-54-3	0.1
	68476-34-6 67762-38-3 1159170-26-9 111-84-2 111-65-9 95-14-0 91-20-3 142-62-5

## 4. First Aid Measures

First aid procedures	
Filst sig blockdriks	
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention.
Skin contact	Remove contaminated clothing and shoes. Wash off immediately with soap and plenty of water. Get medical attention if irritation develops or persists. Wash clothing separately before reuse. Destroy or thoroughly clean contaminated shoes. If high pressure injection under the skin occurs, always seek medical attention.
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Ge medical attention.
Ingestion	Rinse mouth thoroughly. Do not induce vomiting without advice from poison control center. Do not give mouth-to-mouth resuscitation. If vomiting occurs, keep head low so that stomach content does not get into the lungs. Get medical attention immediately.
Notes to physician	In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed. The toxicological properties of this material have not been fully investigated.
General advice	If exposed or concerned: get medical attention/advice. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use.
5. Fire Fighting Measures	
Flammable properties	Combustible liquid and vapor. Containers may explode when heated.
Extinguishing media	
Suitable extinguishing media	Water spray, Water fog, Foam, Dry chemical powder, Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use a solid water stream as it may scatter and spread fire.
Protection of firefighters	
	Wear full protective clothing, including helmet, self-contained positive pressure or pressure

 3541
 Version #: 03
 Revison date: 25-June-2013
 Print date: 25-June-2013
 2 / 13

 Prepared by 3E Company

₹175

à

Fire fighting equipment/instructions	Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. Withdraw immediately in case of rising sound from venting safety devices or any discoloration of tanks due to fire. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Move containers from fire area if you can do it without risk. In the event of fire, cool tanks with water spray. Cool containers exposed to flames with water until well after the fire is out. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn. Water runoff can cause environmental damage. Use compatible foam to minimize vapor generation as needed.
Specific methods	in the event of fire and/or explosion do not breathe fumes.
Hazardous combustion products	Carbon monoxide. Carbon Dioxide. Sulfur oxides. Nitrogen oxides (NOx). Hydrocarbons. Hydrogen sulfide.
6. Accidental Release Me	asures
Personal precautions	Keep unnecessary personnel away. Local authorities should be advised if significant spills cannot be contained. Keep upwind. Keep out of low areas. Ventilate closed spaces before entering. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. See Section 8 of the MSDS for Personal Protective Equipment.
Environmental precautions	If facility or operation has an "oil or hazardous substance contingency plan", activate its procedures. Stay upwind and away from spill. Wear appropriate protective equipment including respiratory protection as conditions warrant. Do not enter or stay in area unless monitoring indicates that it is safe to do so. Isolate hazard area and restrict entry to emergency crew. Flammable. Review Firefighting Measures, Section 5, before proceeding with clean up. Keep all sources of ignition (flames, smoking, flares, etc.) and hot surfaces away from release. Contain spill in smallest possible area. Recover as much product as possible (e.g. by vacuuming). Stop leak if it can be done without risk. Use water spray to disperse vapors. Use compatible foam to minimize vapor generation as needed. Spilled material may be absorbed by an appropriate absorbent, and then handled in accordance with environmental regulations. Prevent spilled material from entering sewers, storm drains, other unauthorized treatment or drainage systems and natural waterways. Contact fire authorities and appropriate federal, state and local agencies. If spill of any amount is made into or upon navigable waters, the contiguous zone, or adjoining shorelines, contact the National Response Center at 1-800-424-8802. For highway or railways spills, contact Chemtree at 1-800-424-9300.
Methods for containment	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Local authorities should be advised if significant spillages cannot be contained. Stop leak if you can do so without risk. This material is a water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water. Dike the spilled material, where this is possible. Prevent entry into waterways, sewers, basements or confined areas.
Methods for cleaning up	Use non-sparking tools and explosion-proof equipment.
	Small Spills: Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination. This material and its container must be disposed of as hazardous waste.
	Large Spills: Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Prevent product from entering drains. Do not allow material to contaminate ground water system. Should not be released into the environment.
Other information	Clean up in accordance with all applicable regulations.
7. Handling and Storage	
Handling	Eliminate sources of ignition. Avoid spark promoters, Ground/bond container and equipment. These alone may be insufficient to remove static electricity. Wear personal protective equipment. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with eyes, skin, and clothing. Do not taste or swallow. Avoid prolonged exposure. Use only with adequate ventilation. Wash thoroughly after handling. The product is combustible, and heating may generate vapors which may form explosive vapor/air mixtures. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. When using, do not eat, drink or smoke. Avoid release to the environment.
Storage	Flammable liquid storage. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. The pressure in sealed containers can increase under the influence of heat. Keep container tightly closed in a cool, well-ventilated place. Keep away from food, drink and animal feedingstuffs. Keep out of the reach of children.
DIESEL FUELS	
	on #: 03 Revision date: 25-June-2013 Print date: 25-June-2013 3713
Prepared by 3E Company	

#### 8. Exposure Controls / Personal Protection

#### Occupational exposure limits

#### US. ACGIH Threshold Limit Values

Components	Туре	Value	Form
Fuels, diesel, no. 2 (CAS 68476-34-6)	TWA	100 mg/m3	Inhalable fraction and vapor.
Hexane (Other isomers) (CAS 96-14-0)	STEL	1000 ppm	·
	TWA	500 ppm	
Naphthaiene (CAS 91-20-3)	STEL	15 ppm	
	ĨVVA	10 ppm	
n-Heptane (CAS 142-82-5)	STEL	500 ppm	
	TWA	400 ppm	
n-Hexane (CAS 110-54-3)	TWA	50 ppm	
n-Nonane (CAS 111-84-2)	TWA	200 ppm	
Octane (Ali isomers) (CAS 111-65-9)	TWA	3D0 ppm	

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	
Naphthalene (CAS 91-20-3)	PEL	50 mg/m3	
		10 ppm	
n-Heptane (CAS 142-82-5)	PEL	2000 mg/m3	
		500 ppm	
n-Hexane (CAS 110-54-3)	PEL	1800 mg/m3	
•		500 ppm	
Octane (All isomers) (CAS 111-65-9)	PEL	2350 mg/m3	
		500 ppm	

#### Canada, Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

Components	Туре	Value	
Fuels, diesel, no. 2 (CAS 68476-34-6)	TWA	100 mg/m3	
Hexane (Other isomers) (CAS 96-14-0)	STEL	3500 mg/m3	
		1000 ppm	
	TWA	1760 mg/m3	
		500 ppm	
Naphthalene (CAS 91-20-3)	STEL	79 mg/m3	
		15 ppm	
	TWA	52 mg/m3	
		10 ppm	
n-Heptane (CAS 142-82-5)	STEL	2050 mg/m3	
		mqg 006	
	TWA	1640 mg/m3	
		400 ppm	
n-Hexane (CAS 110-64-3)	TWA	176 mg/m3	
		50 ppm	
n-Nonane (CAS 111-84-2)	TWA	1050 mg/m3	
		200 ppm	
Octane (Ali isomers) (CAS 111-65-9)	TWA	1400 mg/m3	
··· == =1			

#### 300 ppm

# Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components		Type	Value	Form	
Fuels, diesel, no. 2 (CAS 68476-34-6)		TWA	100 mg/m3	Vapor and aerosol.	
DIESEL FUELS 3541 Prepared by 3E Company	Version #: 03	Revison date: 25-June-201	3 Print date: 25-June-2013	4 / 13	

.

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	Туре	Value Form	
Hexane (Other isomers) (CAS 96-14-0)	TWA.	200 ppm	
Naphthalene (CAS 91-20-3)	STEL	15 ppm	
	TWA	10 ppm	
n-Heptane (CAS 142-82-5)	STEL	500 ppm	
	TWA	400 ppm	
n-Haxane (CAS 110-54-3)	TWA	20 ppm	
n-Nonane (CAS 111-84-2)	TWA	200 ppm	
Octane (All isomers) (CAS 111-85-9)	TWA	300 ppm	

Canada, Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

Components	Туре	Value	Form
Fuels, diesel, no. 2 (CAS 68476-34-6)	TVVA	100 mg/m3	Inhalable fraction and vapor.
Hexane (Other isomers) (CAS 96-14-0)	STEL	1 <b>000</b> ppm	
	TWA	500 ppm	
Naphthalene (CAS 91-20-3)	STEL	15 ppm	
	TWA	10 ppm	
n-Heptane (CAS 142-82-5)	STEL	500 ppm	
	TVVA	400 ppm	
n-Hexane (CAS 110-54-3)	TWA	50 ppm	
n-Nonane (CAS 111-84-2)	TWA	200 ppm	
Octane (All isomers) (CAS 111-65-9)	TVVA	300 ppm	

Canada, Quebec OELs. (Winistry of Labor - Regulation Respecting the Quality of the Work Environment)

Components	Туре	Value	
Hexane (Other isomers) (CAS 96-14-0)	STEL	3500 mg/m3	
		1000 ppm	
	TWA	1760 mg/m3	
		500 ppm	
Naphthalene (CAS 91-20-3)	STEL	79 mg/m3	
		15 ppm	
	TWA	52 mg/m3	
		10 ppm	
n-Heptane (CAS 142-82-5)	STEL	2050 mg/m3	
		500 ppm	
	TWA	1640 <b>mg/m3</b>	
		400 ppm	
n-Hexane (CAS 110-54-3)	TWA	176 mg/m3	
		50 ppm	
n-Nonane (CAS 111-84-2)	TWA	1050 mg/m3	
		200 ppm	
Octane (All isomers) (CAS 111-65-9)	STEL	1750 mg/m3	
		375 ppm	
	TWA	1400 mg/m3	
		300 ppm	
Mexico. Occupational Exposure Li	mit Values		
Components	Туре	Value	
Hexane (Other isomers) (CAS 96-14-0)	STEL	3500 mg/m3	
(		1000 ppm	
	TWA	1760 mg/m3	

PAGE 07

2 E / L

Components

Value

Page: 007

### Mexico. Occupational Exposure Limit Values

.

Туре

		500 ppm	
Naphthalene (CAS 91-20-3)	STEL	75 mg/m3	
1 1 1 1 1 1		15 ppm	
	TWA		
	1100	50 mg/m3	
		10 ppm	
n-Heptane (CAS 142-82-5)	STEL	2000 mg/m3	
		500 ppm	
	TWA	1600 mg/m3	
		400 ppm	
n-Hexane (CAS 110-54-3)	ŤWA	176 mg/m3	
		50 ppm	
n-Nonane (CAS 111-84-2)	STEL	1300 mg/m3	
······································		250 ppm	
	TWA	- •	
	1 7 7 7 7	1050 mg/m3	
		200 ppm	
Octane (All isomers) (CAS	Stel	1800 mg/m3	
111-65-9)		0 <b>76</b>	
		375 ppm	
	TWA	1450 mg/m3	
		300 ppm	
oosura guidelines			
Canada - Alberta OELs: Skin	designation		
	-	One has also detailed at the state	
Naphthalene (CAS 91-20-		Can be absorbed through the skin.	
n-Hexane (CAS 110-54-3)		Can be absorbed through the skin.	
Canada - British Columbia C			
Fuels, diesel, no. 2 (CAS)		Can be absorbed through the skin.	
Naphthalene (CAS 91-20-	-3)	Can be absorbed through the skin.	
л-Hexane (CAS 110-54-3)	)	Can be absorbed through the skin.	
Canada - Manitoba OELs: Sk	kin designation	•	
Fuels, diesel, no. 2 (CAS)	-	Can be absorbed through the skin.	
Naphthalene (CAS 91-20-		Can be absorbed through the skin.	
n-Hexane (CAS 110-54-3)		Can be absorbed through the skin.	
Canada - Ontario OELs: Skir		Cau de appoloco ruidiõit filé ékili"	
	-		
Fuels, diesel, no. 2 (CAS I		Can be absorbed through the skin.	
Naphthalene (CAS 91-20-		Can be absorbed through the skin.	
n-Hexane (CAS 110-54-3)		Can be absorbed through the skin.	
Canada - Quebec OELs: Skir	n designation		
n-Hexane (CAS 110-54-3)	)	Can be absorbed through the skin.	
Canada - Saskatchewan OEl			
Fuels, diesel, no. 2 (CAS	—	Can be absorbed through the skin.	
Naphthalene (CAS 91-20-		Can be absorbed through the skin.	
n-Hexane (CAS 110-54-3)		Can be absorbed through the skin.	
Mexico OELs: Skin designat			
n-Heptane (CAS 142-82-5	5)	Can be absorbed through the skin.	
US - California OELs: Skin d	esignation		
n-Hexane (CAS 110-54-3)	)	Can be absorbed through the skin.	
US ACGIH Threshold Limit V			
Fuels, diesel, no. 2 (CAS)			
		Can be absorbed through the skin.	
Naphthalene (CAS 91-20-	•	<b>Can be absorbed through the skin.</b>	
n-Hexane (CAS 110-54-3)		Can be absorbed through the skin.	
gineering controls	Provide adequate gen	eral and local exhaust ventilation. Use process enclosures	a, local exhaust
	ventilation, or other en	gineering controls to control airborne levels below recomm	nended exposure
	limits. Use explosion-p	roor equipment.	
sonal protective equipment			
	Wear safety glasses, (*	f splash potential exists, wear full face shield or chemical	nonales
sonal protective equipment Eye / face protection	Wear safety glasses. (:	f splash potential exists, wear full face shield or chemical g	goggles.
sonal protective equipment Eye / face protection	Wear safety glasses. (	f splash potential exists, wear full face shield or chemical (	goggles.
	Wear safety glasses. (	f splash potential exists, wear full face shield or chemical g	goggles.
	Wear safety glasses. (*	f splash potential exists, wear full face shield or chemical (	goggles.
Eye / face protection		f splash potential exists, wear full face shield or chemical ( 	goggles. ő / 1
Eye / face protection ESEL FUELS		· · · · · · · · · · · · · · · · · · ·	· · · · · · ·
Eye / face protection		· · · · · · · · · · · · · · · · · · ·	· · · · · ·
Eye / face protection ESEL FUELS		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
Eye / face protection SEL FUELS		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·

8\35

99668919

.

Skin protection	Wear chemical-resistant, impervious gloves. Full body suit and boots are recommended when handling large volumes or in emergency situations. Flame retardant protective clothing is recommended.
Respiratory protection	Use a properly fitted, air-purifying or air-fed 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. If workplace exposure limits for product or components are exceeded, NIOSH approved equipment should be worn. Proper respirator selection should be determined by adequately trained personnel, based on the contaminants, the degree of potential exposure and published respiratory protection factors. This equipment should be available for nonroutine and emergency use.
General hygiene considerations	Consult supervisor for special handling instructions. Avoid contact with eyes. Avoid contact with skin. Keep away from food and drink. Wash hands before breaks and immediately after handling the product. Provide eyewash station and safety shower. Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical & Chemical Properties

Appearance	Liquid (may be dyed red).
Physical state	Liquid.
Form	Liquid.
Color	Clear. Straw.
Odor	Kerosene (strong).
Odor threshold	Not available.
рH	Not available.
Vapor pressure	< 1 mm Hg (20°C)
Vapor density	3 (Air = 1)
Boiling point	325 - 700 °F (162.78 - 371.11 °C)
Metting point/Freezing point	-60.07 °F (-51.15 °C) Estimated
Solubility (water)	Not available.
Specific gravity	0.82 - 0.87 (60°F)
Flash point	> 100.0 °F (> 37.6 °C) Closed Cup
Flammability limits in air, upper, % by volume	8%
Flammability limits in air, lower, % by volume	0.4 %
Auto-ignition temperature	494.96 °F (257.2 °C)
Evaporation rate	0
Viscosity	2 - 4.5 mm²/s
Other data	
Flash point class	Combustible II
10. Chemical Stability & I	Reactivity Information
Chemical stability	Stable under normal temperature conditions and recommended use.
Conditions to avoid	Heat, flames and sparks. Ignition sources. Contact with incompatible materials. Do not pressurize, out, weld, braze, solder, drill, grind or expose empty containers to heat, flame, sparks, static

	cut, weld, braze, solder, drill, grind or expose empty containers to heat, flame, sparks, static electricity, or other sources of ignition; they may explode and cause injury or death.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Carbon oxides. Sulfur oxides. Nitrogen oxides (NOx). Hydrocarbons. Hydrogen sulfide.
Possibility of hazardous reactions	Hazardous polymerization does not occur.

DIESEL FUELS 3541 Prepared by 3E Company

Version #: 03

Revison date: 25-June-2013 Print date: 25-June-2013

28/6

## 11. Toxicological Information

acute effects + s s	Rat Rabbit Rat Rat Rat	Test Results           4.1 mg/l, 4 hours           > 2 g/kg           490 mg/kg           103 mg/l, 4 Hours           28710 mg/kg           3200 mg/l, 4 Hours           118 mg/l, 4 Hours	
Acute Inhalation LC50 Naphthalene (CAS 91-20-3) Acute Dermal LD50 Oral LD50 Oral LD50 n-Heptane (CAS 142-82-5) Acute Inhalation LC50 n-Hexane (CAS 110-54-3) Acute Oral LD50 n-Nonane (CAS 111-84-2) Acute Inhalation LC50 Dotane (All isomers) (CAS 111-65-9) Acute Inhalation LC50 Sensitization T Acute effects S	Rat Rabbit Rat Rat Rat Rat Rat	> 2 g/kg 490 mg/kg 103 mg/l, 4 Hours 28710 mg/kg 3200 mg/l, 4 Hours 118 mg/l, 4 Hours	
Inhalation LC50 Naphthalene (CAS 91-20-3) Acute Dermal LD50 Oral LD50 n-Heptane (CAS 142-82-5) Acute Inhalation LC50 n-Hexane (CAS 110-54-3) Acute Oral LD50 n-Nonane (CAS 111-84-2) Acute Inhalation LC50 Dotane (All isomers) (CAS 111-65-9) Acute Inhalation LC50 Sensitization T Acute effects S	Rabbit Rat Rat Rat Rat Rat Rat	> 2 g/kg 490 mg/kg 103 mg/l, 4 Hours 28710 mg/kg 3200 mg/l, 4 Hours 118 mg/l, 4 Hours	
LC50 Naphthalene (CAS 91-20-3) Acute Dermal LD50 Oral LD50 Oral LD50 n-Heptane (CAS 142-82-5) Acute Inhalation LC50 n-Hexane (CAS 110-54-3) Acute Oral LD50 n-Nonane (CAS 111-64-3) Acute Inhalation LC50 Dotane (All isomers) (CAS 111-65-9) Acute Inhalation LC50 Sensitization	Rabbit Rat Rat Rat Rat Rat Rat	> 2 g/kg 490 mg/kg 103 mg/l, 4 Hours 28710 mg/kg 3200 mg/l, 4 Hours 118 mg/l, 4 Hours	
Naphthalene (CAS 91-20-3) Acute Dermal LD50 Cral LD50 Oral LD50 n-Heptane (CAS 142-82-5) Acute Inhalation LC50 n-Hexane (CAS 110-54-3) Acute Oral LD50 n-Nonane (CAS 111-84-2) Acute Inhalation LC50 Dotane (All isomers) (CAS 111-85-9) Acute Inhalation LC50 Sensitization T Acute effects S	Rabbit Rat Rat Rat Rat Rat Rat	> 2 g/kg 490 mg/kg 103 mg/l, 4 Hours 28710 mg/kg 3200 mg/l, 4 Hours 118 mg/l, 4 Hours	
Acute Dermal LD50 Oral LD50 Oral LD50 Acute Inhalation LC50 Acute Oral LD50 Acute Oral LD50 Acute Oral LD50 Acute Oral LD50 Acute Oral LD50 Acute Oral LD50 Acute Oral LD50 Acute Oral LD50 Acute Inhalation LC50 Acute Inhalation LC50 Acute Inhalation LC50 Acute Inhalation LC50 Acute Inhalation LC50 Acute Inhalation LC50 Acute Inhalation LC50 Acute Inhalation LC50 Acute Inhalation LC50 Acute Inhalation LC50 Acute Inhalation LC50 Acute Inhalation LC50 Acute Inhalation LC50 Acute Inhalation LC50 Acute Inhalation LC50 Acute Inhalation LC50 Acute Inhalation LC50 Acute Inhalation LC50 Sensitization T Acute effects S	Rat Rat Rat Rat Rat This substance may have a po	490 mg/kg 103 mg/l, 4 Hours 28710 mg/kg 3200 mg/l, 4 Hours 118 mg/l, 4 Hours	
Dermal LD50 Oral LD50 Acute Inhalation LC50 Acute Inhalation LC50 Acute Oral LD50 Nonane (CAS 110-54-3) Acute Oral LD50 Nonane (CAS 111-84-2) Acute Inhalation LC50 Detane (All isomers) (CAS 111-65-9) Acute Inhalation LC50 Sensitization T Acute effects	Rat Rat Rat Rat Rat This substance may have a po	490 mg/kg 103 mg/l, 4 Hours 28710 mg/kg 3200 mg/l, 4 Hours 118 mg/l, 4 Hours	
LD50 Oral LD50 Oral LD50 Acute Inhalation LC50 Acute Oral LD50 Acute Oral LD50 Nonane (CAS 110-54-3) Acute Oral LD50 Nonane (CAS 111-84-2) Acute Inhalation LC50 Dotane (All isomers) (CAS 111-65-9) Acute Inhalation LC50 Sensitization Takente Satures Sensitization Takente Satures Sensitization CAS Satures Sensitization CAS Satures	Rat Rat Rat Rat Rat This substance may have a po	490 mg/kg 103 mg/l, 4 Hours 28710 mg/kg 3200 mg/l, 4 Hours 118 mg/l, 4 Hours	
Oral LD50 h-Heptane (CAS 142-82-5) Acute Inhalation LC50 h-Hexane (CAS 110-54-3) Acute Oral LD50 h-Nonane (CAS 111-84-2) Acute Inhalation LC50 Detane (All isomers) (CAS 111-65-9) Acute Inhalation LC50 Sensitization T Acute effects Sensitization T	Rat Rat Rat Rat Rat This substance may have a po	490 mg/kg 103 mg/l, 4 Hours 28710 mg/kg 3200 mg/l, 4 Hours 118 mg/l, 4 Hours	
LD50 A-Heptane (CAS 142-82-5) Acute Inhalation LC50 Acute Oral LD50 Acute Oral LD50 I-Nonane (CAS 110-54-3) Acute Inhalation LC50 Detane (All isomers) (CAS 111-85-9) Acute Inhalation LC50 Sensitization T Acute effects S	Rat Rat Rat Rat	103 mg/l, 4 Hours 28710 mg/kg 3200 mg/l, 4 Hours 118 mg/l, 4 Hours	
h-Heptane (CAS 142-82-5) Acute Inhalation LC50 h-Hexane (CAS 110-54-3) Acute Oral LD50 h-Nonane (CAS 111-84-2) Acute Inhalation LC50 Detane (All isomers) (CAS 111-65-9) Acute Inhalation LC50 Sensitization T Acute effects Sensitization CAS 142-82-5)	Rat Rat Rat Rat	103 mg/l, 4 Hours 28710 mg/kg 3200 mg/l, 4 Hours 118 mg/l, 4 Hours	
Acute Inhalation LC50 n-Hexane (CAS 110-54-3) Acute Orel LD50 n-Nonane (CAS 111-84-2) Acute Inhalation LC50 Dotane (All isomers) (CAS 111-65-9) Acute Inhalation LC50 Sensitization T Acute effects	Rat Rat Rat This substance may have a po	28710 mg/kg 3200 mg/l, 4 Hours 118 mg/l, 4 Hours	
Inhalation LC50 Acute Orel LD50 Nonane (CAS 110-54-3) Acute Inhalation LC50 Octane (All isomers) (CAS 111-65-9) Acute Inhalation LC50 Sensitization T Acute effects	Rat Rat Rat This substance may have a po	28710 mg/kg 3200 mg/l, 4 Hours 118 mg/l, 4 Hours	
LC50 h-Hexane (CAS 110-54-3) Acute Oral LD50 h-Nonane (CAS 111-84-2) Acute Inhalation LC50 Detane (All isomers) (CAS 111-65-9) Acute Inhalation LC50 Sensitization T Acute effects Sensitization Sensitization T Acute effects Sensitization Sensitization T Acute effects Sensitization	Rat Rat Rat This substance may have a po	28710 mg/kg 3200 mg/l, 4 Hours 118 mg/l, 4 Hours	
Acute Oral LD50 Nonane (CAS 111-84-2) Acute Inhalation LC50 Octane (All isomers) (CAS 111-65-9) Acute Inhalation LC50 Sensitization	Rat Rat Rat This substance may have a po	28710 mg/kg 3200 mg/l, 4 Hours 118 mg/l, 4 Hours	
Acute Oral LD50 -Nonane (CAS 111-84-2) Acute Inhalation LC50 Detane (All isomers) (CAS 111-65-9) Acute Inhalation LC50 Sensitization T Acute effects	Rat Rat This substance may have a po	3200 mg/l, 4 Hours 118 mg/l, 4 Hours	
Oral LD50 -Nonane (CAS 111-84-2) Acute Inhalation LC50 Detane (All isomers) (CAS 111-65-9) Acute Inhalation LC50 Sensitization T Acute effects	Rat Rat This substance may have a po	3200 mg/l, 4 Hours 118 mg/l, 4 Hours	
LD50 -Nonane (CAS 111-84-2) Acute Inhalation LC50 Octane (All isomers) (CAS 111-65-9) Acute Inhalation LC50 Sensitization T Acute effects Sensitization Sensit	Rat Rat This substance may have a po	3200 mg/l, 4 Hours 118 mg/l, 4 Hours	
I-Nonane (CAS 111-84-2) Acute Inhalation LC50 Octane (All isomers) (CAS 111-65-9) Acute Inhalation LC50 Sensitization T Acute effects	Rat Rat This substance may have a po	3200 mg/l, 4 Hours 118 mg/l, 4 Hours	
Acuta Inhalation LC50 Detane (All isomers) (CAS 111-65-9) Acute Inhalation LC50 Sensitization T Acute effects Sensitization Sensitization T Sensitization Sen	R <b>at</b> This substance may have a po	118 mg/l, 4 Hours	
Inhalation LC50 Detane (All isomers) (CAS 111-65-9) Acute Inhalation LC50 Sensitization T Acute effects H Sensitization S Acute effects S	R <b>at</b> This substance may have a po	118 mg/l, 4 Hours	
LC50 Detane (All isomers) (CAS 111-65-9) Acute Inhalation LC50 Sensitization T Acute effects	R <b>at</b> This substance may have a po	118 mg/l, 4 Hours	
Octane (All isomers) (CAS 111-65-9) Acute Inhalation LC50 Sensitization T soute effects H soute structure sources sour	R <b>at</b> This substance may have a po	118 mg/l, 4 Hours	
Acute Inhalation LC50 Sensitization T soute effects H soute effects	R <b>at</b> This substance may have a po	118 mg/l, 4 Hours	
Acute Inhalation LC50 Hensitization T soute effects H	Rat This substance may have a po		
Inhalation LC50 Iensitization T soute effects H s	his substance may have a po		
LC50 Sensitization T soute effects H s	his substance may have a po		
Sensitization T soute effects S soute structure s	his substance may have a po		
s Acute effects H s s	This substance may have a po among sensitive individuals.	handsaffaring the second se	
s		tential for sensitization which may provoke an allergic reaction	
2 2 2	wallowed. Irritating to eyes, re pray mists are narcotic and m sulfide, a highly toxic gas, may sulfide include respiratory and and pain in the nose, and loss	rough skin, or swallowed. Harmful: may cause lung damage if espiratory system and skin. In high concentrations, vapors and vay cause headache, fatigue, dizziness and nausea. Hydrogen r be present. Signs and symptoms of overexposure to hydrogen eye irritation, dizziness, nausea, coughing, a sensation of dryner of consciousness. Odor does not provide a reliable indicator of th in the atmosphere. The toxicological properties of this material ha	
c a d	Contains organic solvents which in case of overexposure may depress the central nervous system causing dizziness and intoxication. Repeated exposure to naphthalene may cause cataracts, allergic skin rashes, destruction of red blood cells, and anemia, jaundice, kidney and liver damage. Danger of serious damage to health by prolonged exposure. Prolonged or repeated overexposure may cause central nervous system, kidney, liver, and lung damage.		
		occur after prolonged and repeated exposure.	
Carolnogenicity II 1 0 5 5	<ul> <li>International Agency for Research on Cancer (IARC): Whole diesel engine exhaust - IARC Group</li> <li>Exposure may cause lung cancer and also noted a positive association with an increased risk of bladder cancer.</li> <li>Diesel exhaust has been reported to be an occupational hazard due to NIOSH-reported potential carcinogenic properties.</li> </ul>		
ACGIH Carcinogens			
Fuels, diesel, no. 2 (CAS 68	476-84-6)	A3 Confirmed onimal consistence with we know relevant	
•	-	A3 Confirmed animal carcinogen with unknown relevance to humans.	
Naphthalene (CAS 91-20-3) IARC Monographs, Overall Eva Evaluations, and 2 (CAS 68)	aluation of Carcinogenicity	A4 Not classifiable as a human carcinogen.	
Fuels, diesel, no. 2 (CAS 68	410-34-0)	3 Not classifiable as to carcinogenicity to humans.	
541 Version #: Prepared by 3E Company	03 Revison date:	: 25-June-2013 Print date: 25-June-2013 8	

ZE/0I

٠

•

Naphthalene (CAS 91-) US NTP Report on Carcine	20-3) ogens: Anticipated carcinogen	2B Possibly carcinogenic to humans.
Naphthalene (CAS 91-	=	Reasonably Anticipated to be a Human Carcinogen.
Epidemiology	Studies have shown a risk of spontaneous abortions in women exposed to high concentrations of organic solvents during pregnancy. Pre-existing skin conditions including dermatitis might be aggrevated by exposure to this product.	
Mutagenicity	No component of this product mutagen by OSHA.	t present at levels greater than or equal to 0.1% is identified as a
Neurological effects	polyneuropathy (peripheral no numbress in the extremities, conduction velocity. Numero exposures to a petroleum frac	centrations of various hydrocarbon blends may lead to arve damage), characterized by progressive weakness and loss of deep tendon reflexes and reduction of motor nerve us cases of polyneuritis have been reported following prolonged ction containing various isomers of heptane as major ingredients. ystem disorder (e.g., narcosis involving a loss of coordination, mage.
Reproductive effects	Napthalene interferes with en maternal toxicity. In humans, mother and fetus.	nbryo development in experimental animals at dose levels that cause excessive exposure to this agent may cause hemolytic anemia in the
Teratogenicity	The components of this produ on best current information, th	lot are not reported to cause teratogenic effects in humans. Based here is no known teratogenicity associated with this product.
Further information	Symptoms may be delayed. T investigated.	exicological properties of this material have not been fully

### 12. Ecological Information

Ecotoxicological data Components		Species	Test Results	
Fuels, diesel, no. 2 (CAS 68476-	34-6)	• • • • • • • • • • • • • • • • • • • •		
Aquatic	•			
Acute				
Crustacea	EL50	Daphnia magna	68 mg/l, 48 hours	
Fish	LL <b>50</b>	Oncorhynchus mykiss	65 mg/l, 96 hours	
Naphthalene (CAS 91-20-3)				
Aquatic				
Crustacea	EC50	Water flea (Daphnia magna)	1.09 - 3.4 mg/l, 48 hours	
Fish	LC50	Pink salmon (Oncorhynchus gorbuscha)	1.11 - 1.68 mg/), 96 hours	
n-Heptane (CAS 142-82-5)			-	
Aquatic				
Fish	LC50	Western mosquitofish (Gambusia affinis)	4924 mg/l, 96 hours	
n-Hexane (CAS 110-54-3)			• ·	
Aquatic				
Fish	LC50	Fathead minnow (Pimephales promelas)	2.101 - 2.981 mg/l, 96 hours	
Ecotoxicity	Toxic to ac	uatic organisms, may cause long-term advers	e effects in the aquatic environment.	
Aquatic toxicity		uatic organisms, may cause long-term advers		
Persistence and degradability	Not availat	ble.	·	
Bioaccumulation / Accumulation	Not availat	bie.		
Partition coefficient				
Hexane (Other isomers) (C/		3.6		
Octane (All isomers) (CAS 1 n-Heptane (CAS 142-82-5)	11-65-9)	5.18 4.66		
n-Hexane (CAS 110-54-3)		3,9		
n-Nonane (CAS 111-84-2)		5.48		
Mobility in environmental media	No data av	ailable.		
13. Disposal Considerati	ons			
Waste codes	D001: Was	te Flammable material with a flash point <140	⊃°F	
DIESEL FUELS		· · · · · · · · · · · · · · · · · · ·		
3541 Versi	оп #: 03	Revison date: 25-June-2013 Print date: 2	25-June-2013	9/1

Prepared by 3E Company

TT/35

#### US RCRA Hazardous Waste U List: Reference

Naphthalene (CAS 91-20-3) Disposal instructions U165

Dispose in accordance with all applicable regulations. Dispose of this material and its container to hazardous or special waste collection point. Incinerate the material under controlled conditions in an approved incinerator. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container.

#### 14. Transport Information

#### DOT

NESEL FUELS 541	Version #: 03	Revison date: 25-June-2013 Print date: 25-June-2013	10/1
Naphthalene (CAS n-Hexane (CAS 1	5 91-20-3)	0.1 % 1.0 %	
Naphthalene (CA n-Hexane (CAS 1	S 91-20-3) 10-54-3)	oxic Chemical: De minimis concentration	
n-Nonane (CAS 1 Clean Air Act (CAA) 9		1.0 % One-Time Export Notification only. s Air Pollutants (HAPs) List	
	Export Notification (40		
S federal regulations			
	uquvu		
5. Regulatory Inform			
Special provisions	82, 88		
Packing group Marine poilutant	ili Yes		
Hazard class Backing group	Combustible   	_iquia	
Proper shipping nam		-	
UN number	UN1202		
DG			
73/78 and the IBC Co			
Transport in bulk acc to Annex II of MARPO		e. However, this product is a liquid and if transported in bulk covered under 78. Annex i.	
EmS Transport in bulk par	F-E, S-E		
Labels required	3		
Marine pollutant			
Environmental hazar			
Packing group	10		
Transport hazard cla			
UN proper shipping r		<b>_</b>	
UN number	UN1202		
/DG	•		
	for user Read safety in	nstructions, SDS and emergency procedures before handling.	
ERG code	3L		
Labels required	3		
Environmental hazar			
Packing group	aelest o		
UN proper shipping r Transport hazard cla			
UN number	UN1202 name Diesel fuel		
Packaging bulk	242		
Packaging non bulk	203		
Packaging exception			
Special provisions	144, B1, (B3, 1	T2, TP1	
Additional informatic	>n:		
Marine pollutant	Yes		
Environmental hazar	ds		
Packing group			
Hazard class	Combustible L	Jauid	
UN number Proper shipping nam	UN1202 e Diesel fuel		

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance Naphthalene (CAS 91-20-3) Listed. л-Нехапе (CAS 110-54-3) Listed. CERCLA (Superfund) reportable quantity (lbs) (40 CFR 302.4) n-Nonane: 100 Octane (All isomers): 100 Hexane (Other isomers): 100 Naphthalene: 100 n-Hexane: 5000 Superfund Amendments and Reauthorization Act of 1986 (SARA) Hazard categories Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No Section 302 extremely Ńo hazardous substance (40 CFR 355, Appendix A) SARA 311/312 Hazardous Yes chemical Drug Enforcement Not controlled Administration (DEA) (21 CFR 1308.11-15) WHMIS status Controlled WHMIS classification **B3 - Combustible Liquids** D2A - Other Toxic Effects-VERY TOXIC D2B - Other Toxic Effects-TOXIC WHMIS labeling Inventory status Country (a) as mains In content to a set 

Country(s) or region	Inventory name		On inventory (yes/no)*
Australia	Australian Inventory c	of Chemical Substances (AICS)	Yes
Çanada	Domestic Substances	a List (DSL)	Yes
Canada	Non-Domestic Substa	ances List (NDSL)	No
China	Inventory of Existing (	Chemical Substances in China (IECSC)	Yes
Europe	European Inventory o Substances (EINECS	of Existing Commercial Chemical )	Yas
Europe	European List of Noti	fied Chemical Substances (ELINCS)	No
Japan	Inventory of Existing a	and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals Li	st (ECL)	Yes
New Zealand	New Zealand Invento	ry	Yes
Philippines	Philippine Inventory c (PICCS)	f Chemicals and Chemical Substances	Yes
United States & Puerto Ric	o Toxic Substances Co	ntrol Act (TSCA) Inventory	Yes
		equirements administered by the governing country of are not listed or exempt from listing on the invent	
State regulations	WARNING: This prop birth defects or other	duct contains chemicals known to the State of reproductive harm.	California to cause cancer and
US - California Hazardous	s Substances (Director's	): Listed substance	
Hexane (Other isomer	s) (CAS 96-14-0)	Listed.	
Naphthalene (CAS 91-		Listed.	
n-Heptane (CAS 142-8	32-5)	Listed.	

#### DIESEL FUELS 3541 Version #: 03 Prepared by 3E Company

2 E / E L

•

\$

n-Hexane (CAS 110-54-3)		Listed.
n-Nonane (CAS 111-84-2		Listed.
Octane (All isomers) (CAS US - California Proposition 6		Listed. ive Toxicity (CRT): Listed substance
Benzene (CAS 71-43-2)		Listed.
Toluene (CAS 108-88-3)		Listed.
	5 - CRT: Listed date/Carcinog	jenic substance
Benzene (CAS 71-43-2)	-	Listed: February 27, 1987 Carcinogenic.
US - California Proposition 6	5 - CRT; Listed date/Develop	nental toxin
Benzene (CAS 71-43-2)		Listed: December 26, 1997 Developmental toxin.
Toluene (CAS 108-88-3)		Listed: January 1, 1991 Developmental toxin.
	6 - CRT: Listed date/Female n	•
Toluene (CAS 108-88-3)		Listed: August 7, 2009 Female reproductive toxin,
US - California Proposition 6	5 - CRT: Listed date/Male rep:	roductive toxin
Benzene (CAS 71-43-2)		Listed: December 26, 1997 Male reproductive toxin.
US - New Jersey RTK - Subs	tances: Listed substance	
Naphthalene (CAS 91-20-	3)	Listed.
n-Heptans (CAS 142-82-6		Listed.
n-Hexare (CAS 110-54-3)	-	Listed.
n-Nonane (CAS 111-84-2)		Listed.
Octane (All isomers) (CAS		Listed.
US. Massachüsetts RTK - Şu		
Hexane (Other isomers) (	•	Listed.
Naphthalene (CAS 91-20-		Listed.
n-Heptane (CAS 142-82-5		Listed.
n-Hexane (CAS 110-54-3)		Listed.
n-Nonane (CAS 111-84-2)		Listed.
Octane (All isomers) (CAS	\$ 111-65-9)	Listed.
US. New Jersey Worker and	Community Right-to-Know Ad	21
Fuels, diesel, no. 2 (CAS (	38476-34-6)	10000 lbs
Naphthalene (CAS 91-20-		500 lbs
n-Hexane (CAS 110-54-3)		500 lbs
US. Pennsylvania RTK - Haz		000 103
-		14.4.1
Fuels, diesel, no. 2 (CAS (		Listed.
Hexane (Other isomers) (		Listed.
Naphthalene (CAS 91-20-		Listed.
n-Heptane (CAS 142-82-5		Listed.
n-Hexan <del>e</del> (CAS 110-54-3)		Listed.
л-Nonane (САБ 111-84-2)		Listed.
Octane (All isomers) (CAS	\$ 111-65-9)	Listed.
Mexico regulations	This safety data sheet was pre (NMX-R-019-SCFI-2011).	apared in accordance with the Official Mexican Standard
16. Other information		
Further information	HMIS® is a registered trade at	nd service mark of the NPCA.
Other information	Note: This material Safety Date	a Sheet applies to the listed products and synonym descriptions for
	Hazard Communication purpo:	in this document. Consult specification sheets for technical
HMIS® ratings	Health: 2* Flammability: 2 Physical hazard: 0	
NFPA ratings	Health: 2 Fiammability: 2 Instability: 0	

DIESEL FUELS 3541 Prepared by 3E Company	Version #: 03	Revison date: 25-June-2013 Print date: 25-June-2013	12/13
		· · ·	

74/33

299228979 a

#### 

#### Disclaimer

This Material Safety Data Sheet (MSDS) was prepared in accordance with 29 CFR 1910.1200 by Valero Marketing & Supply Co., ("VALERO"). VALERO does not assume any liability arising out of product use by others. The information, recommendations, and suggestions presented in this MSDS are based upon test results and data believed to be reliable. The end user of the product has the responsibility for evaluating the adequacy of the data under the conditions of use, determining the safety, toxicity and suitability of the product under these conditions, and obtaining additional or clarifying information where uncertainty exists. No guarantee expressed or implied is made as to the effects of such use , the results to be obtained, or the safety and toxicity of the product in any specific application. Furthermore, the information herein is not represented as absolutely complete, since it is not practicable to provide all the scientific and study information in the format of this document, plus additional information may be necessary under exceptional conditions of use, or because of applicable laws or government regulations.

DIESEL FUELS 3541 Version #: 03 Prepared by 3E Company

Revison date: 25-June-2013 Print date: 25-June-2013

28/91

13713

Valero Corporate Health and Safety P.O. Box 696000 San Antonio, TX 78269-6000



LEMMEN OIL CO

616 8377662

Jun 02, 2012

#### Attn: Safety/Right-To-Know Coordinator

Dear Customer:

Copies of Material Safety Data Sheet(s) (MSDS), which have been prepared in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200) are enclosed for the listed products manufactured by Valero. MSDS are being provided to you either :

- as a result of your being authorized to purchase the products,
- a result of your request for MSDS or
- in compliance with the supplier notification requirements in 40 CFR, Part 372, Subpart C,

Please compare the dates on the attached MSDS with those in your file and replace any older MSDS with the more recent one. OSHA regulations may require that you make the attached information available to your employees and/or your customers.

EPA Regulations 40 CFR, Part 372, in support of Section 313 of SARA, Title III, requires all manufacturers to notify suppliers annually of the concentrations of certain chemicals in products. The list of these chemicals can be found in 40 CFR 372.65. This notification is accomplished by an annual distribution (in January) of a report listing each product and the concentration of the regulated components.

The following MSDS are attached:

MSDS Number

Description

87CON/10.0E

Unleaded Gasoline

7£/91

MSDS Assistance: (210)345-4593



## MATERIAL SAFETY DATA SHEET

Material name	UNLEADED GASOLINE
Version #	01
Revision date	10-23-2010
MSDS Number	002
Product use	Motor fuels.
Synonym(s)	Regular/Premium/Midgrade - Unleaded Gasoline, RFG - Reformulated Unleaded Gasoline, Conventional Unleaded Gasoline, Oxygenated Unleaded Gasoline, Non-Oxygenated Unleaded Gasoline, CARB (California Air Resource Board) Unleaded Gasoline, RBOB - Reformulated Blendstock for Oxygenate Blending, CBOB - Conventional Blendstock for Oxygenate Blending, Petrol, Motor Fuel. See section 16 for complete information.
Manufacturer information	Valero Marketing & Supply Company and Affiliates P.O. Box 696000 San Antonio, TX 78269-6000 General Assistance 210-345-4593 24 Hour Emergency 866-565-5220 1-800-424-9300 (CHEMTREC USA)
2. Hazards Identification	
Physical state	Liquid.
Appearance	Light straw to red clear liquid with characteristic strong odor of gasoline.
Emergency overview	DANGERI Extremely flammable liquid and vapor - vapor may cause flash fire. Will be easily ignited by heat, spark or flames. Heat may cause the containers to explode.
	Harmful if inhaled, absorbed through skin, or swallowed. Aspiration may cause lung damage. Irritating to eyes, respiratory system and skin. In high concentrations, vapors and spray mists are narcotic and may cause headache, fatigue, dizziness and nauses. Contains benzene. Cancer hazard - can cause cancer. Mutagen. May cause heritable genetic damage. May cause adverse reproductive effects - such as birth defects, miscarriages, or infertility. Toxic to aquatic organisms may cause long-term adverse effects in the aquatic environment.
DSHA regulatory status	This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).
Potential health effects	
Routes of exposure	Inhalation. Ingestion, Skin contact. Eye contact.
Eyes	Contact may irritate or burn eyes. Eye contact may result in corneal injury.
Skin	Harmful if absorbed through skin. Irritating to skin. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.
Inhalation	Harmful if inhaled, Irritating to respiratory system. In high concentrations, vapors and spray mists are narcotic and may cause headache, fatigue, dizziness and nauses. May cause breathing disorders and lung damage. May cause cancer by inhalation. Prolonged inhalation may be harmful.
Ingestion	Harmful if swallowed. Ingestion may result in vomiting; aspiration (breathing) of vomitus into lung must be avoided as even small quantities may result in aspiration pneumonitis. Irritating to mouth throat, and stomach.
arget organs	Blood. Eyes, Liver, Respiratory system, Skin, Kidneys, Central nervous system,
hronic effects	Cancer hazard. Contains material which may have reproductive toxicity, teratogenetic or mutagenic effects. Liver injury may occur. Kidney injury may occur. May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion and biurred vision) and/or damage. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.
igns and symptoms	Irritation of nose and throat. Irritation of eyes and mucous membranes. Skin irritation. Unconsciousness. Comeal damage. Narcosis. Cyanosis (blue tissue condition, nails, lips, and/or skin). Decrease in motor functions. Behavioral changes, Ederna. Liver enlargement. Jaundice. Conjunctivitis. Proteinuria. Defatting of the skin. Rash.
otential environmental effects	Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment,
JNLEADED GASOLINE	

## 3. Composition / Information on Ingredients

Components	CAS#	Percent
Gasoline	86290-81-5	0-100
Toluene	108-88-3	0-30
Hexane (Other isomers)	96-14-0	5-25
Xylene (o, m, p isomers)	1330-20-7	0-25
Octane (All isomers)	111-65-9	0-18.5
Ethanoi	64-17-5	0-10
1,2,4, Trimethylbenzene	95-63-6	0-6
n-Heptane	142-82-5	1-5
Pentane	109-66-0	1-5
Cumene	98-82-8	0-5
Ethylbenzene	100-41-4	0-5
Benzene	71-43-2	0-4.9
1-Hexane	110-54-3	0-3
Cyclohexane	110-82-7	0-3
	and the second	

### 4. First Aid Measures

First aid procedures			
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention.		
Skin contact	Remove contaminated clothing and shoes. Wash off immediately with scap and plenty of water. Get medical attention if irritation develops or persists. Wash clothing separately before reuse. Destroy or thoroughly clean contaminated shoes. If high pressure injection under the skin occurs, always seek medical attention.		
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.		
Ingestion	Rinse mouth thoroughly. Do not induce vomiting without advice from poison control center. Do not give mouth-to-mouth resuscitation. If vomiting occurs, keep head low so that stomach content does not get into the lungs, Get medical attention immediately.		
Notes to physician	In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.		
General advice	If exposed or concerned: get medical attention/advice. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use.		
5. Fire Fighting Measures			
Flammable properties	Flammable by OSHA criteria. Containers may explode when heated.		
Extinguishing media			
Suitable extinguishing media	Water spray. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).		
Unsultable extinguishing media	Do not use a solid water stream as it may scatter and spread fire,		
Protection of firefighters			
Specific hazards arising from the chemical	Vapor may cause flash fire. Vapors can flow along surfaces to distant ignition source and flash back. Sensitive to static discharge.		
Protective equipment and precautions for firefighters	Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.		
UNLEADED GASOLINE 3536 Version	#: 01 Revison date: 10-23-2010 Print date: 10-23-2010 2 / 18		
Prepared by 3E Company			

PAGE 18

ZE/8I

Fire fighting equipment/instructions	Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. Withdraw immediately in case of rising sound from venting safety devices or any discoloration of tanks due to fire. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Move containers from fire area if you can do it without risk. In the event of fire, cool tanks with water spray. Cool containers exposed to flames with water until well after the fire is out. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn. Vapors may form explosive air mixtures even at room temperature. Prevent buildup of vapors or gases to explosive concentrations. Some of these materials, if spilled, may evaporate leaving a flammable residue. Water runoff can cause environmental damage. Use compatible foam to minimize vapor generation as needed.
Specific methods	In the event of fire and/or explosion do not breathe furnes. Use water spray to cool unopened containers.
Hazardous combustion products	Carbon monoxide, Carbon Dioxide, Sulfur oxides, Nitrogen oxides (NOx). Hydrocarbons,
6. Accidental Release Mea	sures
Personal precautions	Keep unnecessary personnel away. Local authorities should be advised if significant spills cannot be contained. Keep upwind, Keep out of low areas. Ventilate closed spaces before entering. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. See Section 8 of the MSDS for Personal Protective Equipment.
Environmental precautions	Gasoline may contain oxygenated blend products (Ethanol, etc.) that are soluble in water and therefore precautions should be taken to protect surface and groundwater sources from contamination. If facility or operation has an "oil or hazardous substance contingency plan", activate its procedures, Stay upwind and away from split. Wear appropriate protective equipment including respiratory protection as conditions warrant. Do not enter or stay in area unless monitoring indicates that it is safe to do so. Isolate hazard area and restrict entry to emergency crew. Extremely flammable. Review Fire Fighting Measures, Section 5, before proceeding with clean up. Keep all sources of ignition (flames, smoking, flares, etc.) and hot surfaces away from release. Contain split in smallest possible area. Recover as much product as possible (e.g. by vacuuming). Stop leak if it can be done without risk. Use water spray to disperse vapors. Use compatible foam to minimize vapor generation as needed. Splitled material may be absorbed by an appropriate absorbent, and then handled in accordance with euronomental regulations. Prevent spilled material from entering sewers, storm drains, other unauthorized treatment or drainage systems and natural waterways. Contact fire authorities and appropriate federal, state and local agencies. If spill of any amount is made into or upon navigable waters, the contiguous zone, or adjoining shorelines, contact Chemtrec at 1-800-424-8802. For highway or railways spills, contact Chemtrec at 1-800-424-9300.
Methods for containment	Etiminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if you can do so without risk. This material is a water pollutant and should be prevented from contaminating soil or from antering sewage and drainage systems and bodies of water. Dike the spilled material, where this is possible. Prevent entry into waterways, sewers, basements or confined areas.
Methods for cleaning up	Use non-sparking tools and explosion-proof equipment.
	Small Spills: Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination. This material and its container must be disposed of as hazardous waste.
	Large Spills: Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Prevent product from entering drains. Do not allow material to contaminate ground water system. Should not be released into the environment.
Other information	Clean up in accordance with all applicable regulations.
7. Handling and Storage	
Handling	Wear personal protective equipment. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with eyes, skin, and clothing. Do not taste or swallow. Avoid prolonged exposure. Use only with adequate ventilation. Wash thoroughly after handling. The product is extremely flammable, and explosive vapor/air mixtures may be formed even at normal room temperatures. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. When using, do not eat, drink or smoke. Avoid release to the environment.
UNLEADED GASOLINE	CPH MSDS NA
3536 Version a Prepared by 3E Company	#: 01 Revison date: 10-23-2010, Print date: 10-23-2010 3 / 16

28/6I

#### Storage

Flammable liquid storage. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and bacome an ignition source. The pressure in sealed containers can increase under the influence of heat. Keep container tightly closed in a cool, well-ventilated place. Keep away from food, drink and animal feedingstuffs. Keep out of the reach of children.

## 8. Exposure Controls / Personal Protection

#### Occupational exposure limits

#### US. ACGIH Threshold Limit Values

Components	Туре	Value	
1,2,4, Trimethylbenzene (95-63-6)	TVVA	25 ppm	
Benzene (71-43-2)	STEL	2.5 ppm	
	TWA	0.5 ppm	
Cumene (98-82-8)	TWA	50 ppm	
Cyclohexane (110-82-7)	TWA	100 ppm	
Ethanol (64-17-5)	STEL		
Ethylbenzene (100-41-4)	STEL	1000 ppm	
	TWA	125 ppm	
Gasoline (86290-81-5)		100 ppm	
Gasonic (00550-01-0)	STEL	500 ppm	
House (Other Lange and	TWA	300 ppm	
Hexane (Other Isomers) (96-14-0)	STEL	1000 ppm	
	TWA	500 ppm	
n-Heptane (142-82-5)	STEL	500 ppm	
	TWA		
n-Hexane (110-54-3)	TWA	400 ppm	
Octane (All isomers)	TWA	50 ppm	
(111-65-9)		300 ppm	
Pentane (109-66-0)	τwa	600 ppm	
Toluene (108-88-3)	TWA	20 ppm	
Xylene (o, m, p isomers)	STEL	150 ppm	
(1330-20-7)			
	TWA	100 ppm	
US. OSHA Table Z-2 (29 CFR 191	•		
Components	Туре	Value	
Benzene (71-43-2)	Ceiling	25 ppm	
	STEL	5 ppm	
	TWA	1 ppm	
Cumene (98-82-8)	PEL	50 ppm	
-		245 mg/m3	
Cyclohexane (110-82-7)	PEL	300 ppm	
Ethanol (64-17-5)	PEL	1050 mg/m3	
_ulalior(04-11-0)	FEL	1900 mg/m3	
		1000 ppm	
Ethylbenzene (100-41-4)	PEL	435 mg/m3	
		100 ppm	
1-Heptane (142-82-5)	PEL	500 ppm	
		2000 mg/m3	
1-Hexane (110-54-3)	PEL	500 ppm	
		1800 mg/m3	
Dotane (All isomers)	Þel	500 ppm	
111-65-9)			
	D.121	2350 mg/m3	
<sup>2</sup> entane (109-66-0)	PEL	1000 ppm	
		2950 mg/m3	
Toluene (108-86-3)	Ceiling	300 ppm	
	TWA	200 ppm	
(ylene (o, m, p isomers)	PEL	435 mg/m3	
1330-20-7)			
		100 ppm	
ADED GASOLINE			CPH MSOB

## Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

Components	Туре	Value	
1,2,4, Trimethylbenzene (95-63-6)	TWA	25 ppm	
		123 mg/m3	
Benzene (71-43-2)	STEL	2.5 ppm	
		8 mg/m3	
	TWA	1.6 mg/m3	
		0.5 ppm	
Cumene (98-82-8)	TWA	50 ppm	
		246 mg/m3	
Cyclohexane (110-82-7)	TWA	344 mg/m3	
		100 ppm	
Ethanol (64-17-5)	TWA	1880 mg/m3	
		1000 ppm	
Ethylbenzene (100-41-4)	Stel	125 ppm	
		543 mg/m3	
	TWA	100 ppm	
		434 ing/m3	
Gasoline (86290-81-5)	STEL	500 ppm	
	TWA	300 ppm	
Hexane (Other Isomers) (96-14-0)	STEL	1000 ppm	
		3500 mg/m3	
	TVVA	1760 mg/m3	
		500 ppm	
n-Heptane (142-82-5)	STEL	2050 mg/m3	
• •		500 ppm	
	TWA	400 ppm	
		1640 mg/m3	
1-Hexane (110-54-3)	TWA	176 mg/m3	
		50 ppm	
Octane (All isomers)	TWA	300 ppm	
111-65-9)		ood ppm	
•		1400 mg/m3	
<sup>2</sup> entane (109-66-0)	TWA	600 mgmb	
		500 ррт 1770 <del>m</del> g/m3	
oluene (108-88-3)	TWA	188 mg/m3	
		-	
		50 ppm	

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	Туре	Value	
1,2,4, Trimethylbenzene (95-63-6)	TWA	25 ppm	· · · · · · · · · · · · · · · · · · ·
Benzene (71-43-2)	STEL	2.5 ppm	
	TVVA	0.5 ppm	
Cumene (98-82-8)	STEL	75 ppm	
	TWA	25 ppm	
Cyclohexane (110-82-7)	TWA		
Ethanol (64-17-5)	STEL	100 ррт 1000 ррто	
Ethylbenzene (100-41-4)	STEL		
	TWA	125 ppm	
Gasoline (86290-81-5)	STEL	100 ppm	
Geografic (00230-01-0)		500 ppm	
Hexane (Other Isomers)	TWA	300 ppm	
(96-14-0)	TWA	200 ppm	
n-Heptane (142-82-5)	STEL	F00	
		500 ppm	
n Hovenn (110 E4 3)	TWA	400 ppm	
n-Hexane (110-54-3)	TWA	20 ppm	
Octane (All isomers) (111-65-9)	TWA	300 ppm	
	77.475	*==	
Pentane (109-66-0)	TWA	600 ppm	
Toluene (108-88-3)	TWA	20 ppm	
EADED GASOLINE			
Version #: 01	Revison date: 10-23-2010	Print date: 10-23-2010	CIPH MISDS I
pared by 3E Company	10291441 4864, 10-23-2010	Frint Gale. 10-23-2010	5/1

Safety Regulation 296/97, as amen Components	Туре	Value
(ylene (o, m, pisomers)	STEL	
1330-20-7)	GIEL	150 ppm
-	TVVA	100 ppm
Canada. Ontario OELs. (Ministry o	f Labor - Control of Exposure	to Biological or Chemical Agents)
Components	Туре	Value
,2,4, Trimethylbenzone	TWA	123 mg/m3
95-63-6)		i ze ingrite
Benzene (71-43-2)		25 ppm
senzene (7 )-40-2)	STEL	2.5 ppm
	TWA	0.5 ppm
2umene (98-82-8)	TWA	245 mg/m3
		50 ppm
Vyclohexane (110-82-7)	TWA	100 ppm
thanol (64-17-5)	TWA	1900 mg/m3
	•	1000 ppm
thylbenzene (100-41-4)	STEL	
	OILL	540 mg/m3
	<b>T</b> \0/0	125 ppm
	TWA	100 ppm
		435 mg/m3
asoline (86290-81-5)	STEL	500 ppm
	TWA	300 ppm
lexane (Other Isomers) 96-14-0)	STEL	1000 ppm
		3520 mg/m3
	TWA	500 ppm
		1760 mg/m3
-Heptans (142-82-5)	STEL	E Contraction of the second seco
······································	lef i bestyr	500 ppm
		2045 mg/m3
	TWA	400 ppm
	-	1635 mg/m3
-Hexane (110-54-3)	TWA	50 ppm
		176 mg/m\$
ictane (All isomers) i11-65-9)	STEL	375 ppm
		1750 mg/m3
	TWA	300 ppm
		1400 тд/т3
entane (109-66-0)	STEL	750 ppm
		2210 mg/m3
	TWA	600 ppm
		••
cluene (108-88-3)	TWA	1770 mg/m3
		20 ppm
	STEL	150 ppm
ylene (o, m, p isomers) 330-20-7)		
ylene (o, m, pisomers)		650 mg/m3
ylene (o, m, pisomers)	TWA	

## Canada. Quebec OELS. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)

Components	Туре	Value	-
1,2,4, Trimethylbenzene (95-63-6)	TWA	25 ppm	· · · · · · · · · · · · · · · · · · ·
Benzene (71-43-2)	STEL	123 mg/m3 15.5 mg/m3	
	TWA	5 ppm 3 mg/m3	
Cumene (98-82-8)	TWA	1 ppm 246 mg/m3 50 mm	
Cyclohexane (11 <b>0-82-</b> 7)	TWA	50 ppm 300 ppm 1030 mg/m3	
EADED GASOLINE		- <u> </u>	CPH MSD5 NA
6 Version #: 01 pared by 3E Company	Revison date: 10-23-2010	Print date: 10-23-2010	6/18

## Canada. Quebec OELS. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)

Components	Туре	Value	
Ethanol (64-17-5)	TWA	1880 mg/m3	
		1000 ppm	
Ethylbenzene (100-41-4)	STEL	543 mg/m3	
- , ,		125 ppm	
	TWA		
	1000	100 ppm	
Hovens (Other is a marsh)		434 mg/m3	
Hexane (Other Isomers) (96-14-0)	STEL	3500 mg/m3	
(80-14-0)			
		1000 ppm	
	TWA	500 ppm	
		1760 mg/m3	
n-Heptane (142-82-5)	STEL	500 ppm	
·		2050 mg/m3	
	TWA	400 ppm	
n-Hexane (110-54-3)	TWA	1640 mg/m3	
1-110Adilo (110-04-0)	IVYA	50 ppm	
		176 mg/m3	
Octane (All isomers)	STEL	375 ppm	
(111-65-9)			
		1750 mg/m3	
	TWA	300 ppm	
		1400 mg/m3	
Pentane (109-66-0)	TWA	120 ppm	
···· - <b>·</b>			
Toluene (108-88-3)	TWA	350 mg/m3	
rememb (rownord)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	188 mg/m3	
Videna ta un unincura s	~~~·	50 ppm	
Xylene (o, m, pisomars)	STEL	651 mg/m3	
(1330-20-7)			
		150 ppm	
	TWA	100 ppm	
		434 mg/m3	
· · · · · · · · · · · · · · · · · · ·		the standard standard	
Mexico. Occupational Exposure (	Limit Values		
Components	Туре	Value	
1,2,4, Trimethylbenzene	STEL		
(95-63-6)		35 ppm	
	7.14	170 mg/m3	
	TWA	25 ppm	
<b></b>		125 mg/m3	
Benzene (71-43-2)	STEL	5 ppm	
		16 mg/m3	
	TWA	3.2 mg/m3	
	1		
Cumene (98-82-8)	STEL	1 ppm	
	ų į Lie	365 mg/m3	
		75 ppm	
	TWA	50 ppm	
		245 mg/m3	
Cyclohexane (110-82-7)	STEL	375 ppm	
·		1300 mg/m3	
	TWA	300 ppm	
	•	1050 mg/m3	
Ethanol (64-17-5)	T\0/0		
-arener (94-17-9)	TVVA	1900 mg/m3	
		1000 ppm	
Eth <b>ylbenzene (1</b> 00-41-4)	STEL	125 ppm	
		545 mg/m3	
	TWA	100 ppm	
		435 mg/m3	
lexane (Other isomers)	STEL	3500 mg/m3	
96-14-0)		assa menua	
· · <b>- /</b>		1000 805	
	T14/4	1000 ppm	
	TWA	500 ppm	
		1760 mg/m3	
	STEL	500 ppm	
-Heptane (142-82-5)			
ADED GASOLINE Version #: 01	Revison date: 10-23-2010	Print date: 10-23-2010	CPH MSDS J

Paga: 009

Mexico.	Occupational	Exposure	Limit Values
		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	CINIC AGINES

Components	Туре	Value		
	TWA	2000 mg/m3		
	T WA	400 ppm 1600 mg/m3		
л-Hexane (110-54-3)	TVVA	50 ppm		
Container (All impersion)		176 mg/m3		
Octane (All isomers) (111-65-9)	STEL	375 ppm		
		1800 mg/m3		
	TWA	300 ppm		
Pentane (109-66-0)	STEL	1450 mg/m3 760 ppm		
·		2250 mg/m3		
	TWA	600 ppm		
Toluene (108-88-3)	TWA	1800 mg/m3		
·		188 mg/m3 50 ppm		
Xylene (o, <i>m</i> , p isomers) (1330-20-7)	STEL	655 mg/m3		
( ')		150 ppm		
	TWA	100 ppm		
dination entrals		435 mg/m3		
gineenng controls	Provide adequate general and local ex ventilation, or other engineering contro limits. Use explosion-proof equipment.	Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment.		
rsonal protective equipment	1			
Eye / face protection	Wear safety glasses. If splash potentia	l exists, wear full face shield or chemical goggles.		
Skin protection	Wear chemical-resistant, impervious gloves. Full body suit and boots are recommended when handling large volumes or in emergency situations. Flame retardant protective clothing is recommended.			
Respiratory protection	Use a properly fitted, air-purifying or air-fed 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 selecte respirator. If workplace exposure limits for product or components are exceeded, NIOSH approved equipment should be worn. Proper respirator selection should be determined by adequately trained personnel, based on the contaminants, the degree of potential exposure and published respiratory protection factors. This equipment should be available for nonroutine and emergency use.			
General hygiene considerations	Consult supervisor for special handling instructions. Avoid contact with eyes, Avoid contact with skin. Keep away from food and drink. Wash hands before breaks and immediately after handling the product. Provide eyewash station and safety shower. Handle in accordance with good industrial hygiene and safety practice.			
Physical & Chemical P	roperties			
pearance	Light straw to red clear liquid with chara	acteristic strong odor of gasoline		
ог	Light straw to red clear.			
or	Characteristic Gasoline Odor (Strong).			
or threshold	Not available.			
/Sical state	Liguid.			
'm	Liquid.			
	•			
tian naint	Not available.			
ting point		Not available.		
ezing point	44 °F (6.67 °C) May start to solidify at this temperature. This is based on data for the following ingredient: Cyclohexane. Weighted average: -91.9 deg C (-133.4 deg F)			
ling point	80.1 - 440.1 °F (26.7 - 226.7 °C)			
sh point	-40 °F (-40 °C) (closed cup)			
poration rate	10 - 11 BuAc			
mmability limits in air, uppe y volume	r, 7.1 %			
LEADED GASOLINE 5 Versio	n #: 01 Revison date: 10-23-20	CPH MSQ 10 Print date: 10-23-2010 8 /		
~ 사다거나	n w Revision deter 10=7.3=70	10 Print date: 10-23-2010 8,		

Flammability limits in alr, lower, % by volume	1.3 %
Vapor pressure	60.8 - 101.3 kPa (20°C)
Vapor density	3 - 4 (Air=1)
Specific gravity	0.66 - 0.75 (Water=1) (60°F)
Solubility (water)	Very slightly soluble.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	> 500 °F (> 260 °C)
Decomposition temperature	Not available.
VOC	100 %

## 10. Chemical Stability & Reactivity Information

Chemical stability	Stable under normal temperature conditions and recommended use.
Conditions to avoid	Heat, flames and sparks, Ignition sources. Contact with incompatible materials. Do not pressurize, cut, weld, braze, solder, drill, grind or expose empty containers to heat, flame, sparks, static electricity, or other sources of ignition; they may explode and cause injury or death.
incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Carbon oxides. Sulfur oxides, Nitrogen oxides (NOx). Hydrocarbons.
Possibility of hazardous reactions	Hazardous polymerization does not occur.

## 11. Toxicological Information

Components		Test Results		
Ethylbenzene (100-41-4)		Acute Dermal LD50 Rabbit: > 5000 mg/kg		
Toluene (105- <b>88-3)</b>		Acute Oral LD50 Rat: 3500 mg/kg Acute Oral LD50 Rat: 5.46 g/kg Acute Dermal LD50 Rabbit: 14.1 ml/kg		
Pentane (109-66-0)		Acute Inhalation LC50 Rat: 8000 mg/l 4 Hours Acute Oral LD50 Rat: 2.6 g/kg Acute Inhaistion LC50 Rat: 364 mg/l 4 Hours		
Cyclohexane (110-82-7)		Acute Oral LD50 Rat; 12705 mg/kg		
Octane (All isomers) (111-65-9)	)	Acute Inhalation LC50 Rat 118 mg/l 4 Hours		
Xylene (o, m, p isomers) (1330	-20-7)	Acute Oral LD50 Mouse: 1590 mg/kg		
n-Heptane (142-82-5)		Acute Oral LD50 Rat: 6670 mg/kg Acute Inhalation LC50 Rat: 103 mg/l 4 Hours		
Ethanol (64-17-5)		Acute Inhalation LC50 Rat: 20000 ppm 10 hr		
Benzene (71-43-2)		Acute Oral LD50 Rat: 6.2 g/kg Acute Oral LD50 Rat: 3306 mg/kg		
1,2,4, Trimethylbenzene (95-63-6)		Acute Dermal LD50 Rabbit: > 3160 mg/kg		
Cumene (98-82-8)		Acute Inhalation 1,C50 Rat: > 2000 mg/l 48 Hours Acute Oral LD50 Rat: 6 g/kg Acute Inhalation LC50 Mouse: 2000 mg/l 7 Hours		
		Acute Inhalation LC50 Rat 8000 mg/l 4 Hours Acute Oral LD50 Rat: 1400 mg/kg Acute Oral LD50 Rat: 2.91 g/kg		
Acute offects	Harmful if inhaled, absorbed through skin, or swallowed. Harmful: may cause lung damage if swallowed. Irritating to eyes, respiratory system and skin. In high concentrations, vapors and spray mists are narcotic and may cause headache, fatigue, dizziness and nausea.			
UNLEADED GASOLINE	ion #: 01 Revison da	срн меоз м te: 10-23-2010 Print date: 10-23-2010 9 / 11		

PAGE 25

REWWEN

25/32

11/51/5013 11:35 0108332000 Mex-51-5013 10:15 5M 010832200

Local effects			
US ACGIH Threshold Limit \	/alues: Skin designation		
Benzene (CAS 71-43-2) n-Hexane (CAS 110-54-3)	)	Can be absorbed through the skin. Can be absorbed through the skin.	
Sensitization	This substance may have a p among sensitive individuals.	otential for sensitization which may provoke an allergic reaction	
Chronic effects	Repeated exposure of laboratory animals to high concentrations of gasoline vapors has caused kidney damage and cancer in rats and cancer in mice. Gasoline was evaluated for genetic activit in assays using microbial cells, cultured mammalian cells and rat bone marrow cells. The results were all negative so gasoline was considered normutagenic under these conditions. Overexposure to this product or its components has been suggested as a cause of liver abnormalities in laboratory animals and humans. Lifetime studies by the American Petroleum Institute have shown that kidney damage and kidney cancer can occur in male rats after prolonged inhalation exposures at elevated concentrations of total gasoline. Kidneys of mice and female rats were unaffected. The U.S. EPA Risk Assessment Forum has concluded that the mal rat kidney tumor results are not relevant for humans. Total gasoline exposure also produced live turnors in female mice only. The implication of these data for humans has not been determined.		
Subchronic effects	Subchronic inhalation of benzene by rats produced decreased white blood cell counts, decreased bone marrow cell activity, increased red blood cell activity and cataracts. Blood disorders may occur after prolonged inhalation, prolonged skin contact and/or ingestion. Liver and kidney damage may occur after prolonged and repeated exposure.		
Carcinogenicity	- ,		
ACGIH Carcinogens			
Benzene (CAS 71-43-2) Ethanol (CAS 64-17-5)		A1 Confirmed human carcinogen. A3 Confirmed animal carcinogen with unknown relevance to humans.	
Ethylbenzene (CAS 100-4	.1-4)	A3 Confirmed animal carcinogen with unknown relevance to humans.	
Gasoline (CAS 86290-81-	5)	A3 Confirmed animal carcinogen with unknown relevance to humans.	
Toluene (CAS 108-88-3) Xylene (o, m, p isomers) ( IARC Monographs, Overall E		A4 Not classifiable as a human carcinogen. A4 Not classifiable as a human carcinogen.	
Benzene (CAS 71-43-2) Ethylbenzene (CAS 100-4 Gasoline (CAS 86290-81-4 Toluene (CAS 108-83-3) Xylene (o, m, p isomers) ( US NTP Report on Carcinogo Benzene (CAS 71-43-2)	5) CAS 1330-20-7)	<ol> <li>Carcinogenic to humans.</li> <li>2B Possibly carcinogenic to humans.</li> <li>2B Possibly carcinogenic to humans.</li> <li>3 Not classifiable as to carcinogenicity to humans.</li> <li>3 Not classifiable as to carcinogenicity to humans.</li> <li>Known carcinogen.</li> </ol>	
US OSHA Specifically Regula	ated Substances: Cancer has	zard	
Benzene (CAS 71-43-2) Epidemiology	Cancer hazard, Contains benzene. Human epidemiology studies indicate that prolonged and/or repeated overexposure to benzene may cause damage to the blood-producing system and serious blood disorders, including leukemia. Animal tests suggest that prolonged and/or repeated overexposure to benzene may damage the embryo/fetus. The relevance of these animal studies to humans has not been fully established. Studies have shown a risk of spontaneous abortions in women exposed to high concentrations of organic solvents during pregnancy.		
Mutagenicity	In in-vitro experiments, neither benzene, toluene nor xylene changed the number of sister-chromatid exchanges (SCEs) or the number of chromosomal aberrations in human lymphocytes. However, toluene and xylene caused a significant cell growth inhibition which was not observed with benzene in the same concentrations. In in-vivo experiments, toluene changed the number of sister-chromatid exchanges (SCEs) in human lymphocytes. Toluene may cause heritable genetic damage.		
Neurological effects	Chronic exposure to high concentrations of various hydrocarbon blends may lead to polyneuropathy (peripheral nerve damage), characterized by progressive weakness and numbress in the extremities, loss of deep tendon reflexes and reduction of motor nerve conduction velocity. Numerous cases of polyneuritis have been reported following prolonged exposures to a petroleum fraction containing various isomers of heptane as major ingredients. May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue) and/or damage.		
UNLEADED GASOLINE 3536 Version - Prepared by 3E Company	#: 01 Revison dat	CPH MSDS N #: 10-23-2010 Print date: 10-23-2010 10 / 1	

Reproductive effects	Benzene, xylene and toluene have demonstrated animal effects of reproductive toxicity. Animal studies of benzene have shown testicular effects, alterations in reproductive cycles, chromosomal aberrations and embryo/fetotoxicity. Ethanol has demonstrated human effects of reproductive toxicity. May damage fertility or the unborn child. Can cause adverse reproductive effects - such as birth defects, miscarriages, or infertility. Avoid exposure to women during early pregnancy. Avoid contact during pregnancy/while nursing.	
Teratogenicity	Abusive inhalation of toluene ("glue sniffing") has been reported to be associated with birth defects in the offspring of abusers. Rats exposed to benzene and xylene vapor during pregnancy showed embryo/fetotoxic effects. Ethanol has demonstrated human effects of teratogenicity.	
Further information	Symptoms may be delayed	
12. Ecological Information		
Ecotoxicological data Components		Test Results
Ethylbenzene (100-41-4)		LC50 Rainbow trout, donaldson trout (Oncorhynchus mykiss);
Toluene (108-88-3)		4.2 mg/l 96 hours LC50 Coho salmon,silver salmon (Oncorhynchus kisutch); 5.5
n-Hexane (110-54-3)		mg/l 96 hours LC50 Fathead minnow (Pimephales prometas): 2.101 - 2.981
Cyclohexane (110-82-7)		mg/i 96 hours
		LC50 Fathead minnow (Pimephales prometas): 3.961 - 5.181 mg/l 96 hours
n-Heptane (142-82-5)		LC50 Mozambique tilapia (Tilapia mossambica): 375 mg/l 96 hours
Ethanol (64-17-5)		EC50 Water flea (Daphnia magna): 7.7 - 11.2 mg/l 48 hours
		LC50 Fathead minnow (Pimephales prometas): > 100 mg/l 96 hours
Benzene (71-43-2)		LC50 Rainbow trout,donaldson trout (Oncorhynchus mykiss): 5.3 mg/l 96 hours
1,2,4, Trimethylbenzene (85-63-6)		LC50 Fathead minnow (Pimephales promelas): 7.19 - 8.28 mg/l 96 hours
Cumene (98-82-8)		LC50 Rainbow trout,donaldson trout (Oncorhynchus mykiss): 2.7 mg/l 96 hours
Ecotoxicity	Contains a substance which	causes risk of hazardous effects to the anvironment.
Environmental effects	The product contains a substance which is toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.	
Aquatic toxicity	Toxic to aquatic organisms.	May cause long-term adverse effects in the aquatic environment.
Persistence and degradability	Not available.	
Bloaccumulation / Accumulation	No data available.	
Partition coefficient n-octanol/water)	Not available.	
Mobility in en∨ironmental nedia	No data available.	
3. Disposal Consideration	5	
Naste codes		aterial with a flash point <140 °F
Disposal Instructions	Dispose in accordance with all applicable regulations. Dispose of this material and its container to hazardous or special waste collection point. Incinerate the material under controlled conditions in an approved incinerator. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container.	
4. Transport Information		
от		
Basic shipping requirements		
UN number Proper chipping pome	UN1203 Gasoline	
Proper shipping name		
	#: 01 Revison d	ets: 10-23-2010 Print dats: 10-23-2010 11 / 16

760-268-4500

Page: 013

Hazard class Packing group	3 11	
Labels required	3	
Additional Information:	-	
Special provisions	139, B33, B101, TS	
Packaging exceptions	150	
Packaging non bulk	202	
Packaging bulk	242	
ERG number	128	
Basic shipping requirement		
UN литвег Proper shipping name	1203 Gasoline	
Hazard class	Sasoine 3	
Packing group	Ĩ.	
Additional information:		
ERG code	3H	
IMDG		
Basic shipping requirement	nts:	
UN number	1203	
Proper shipping name	Gasoline	
Hazard class	3	
Packing group		
EmS No.	F-E, S-E	
TDG		
Basic shipping requirement		
Proper shipping name Hazard class	GASOLINE; MOTOR SPIRIT; or PETROL 3	
Hazard class UN number	3 UN1203	
Packing group		
Marine pollutant	Yes	
Additional information:		
Special provisions	17	
H AMMABLE DOT		
	iata imdg	
TDG		
UNLEADED GASOLINE		
3536 Versio	n #: 01 Revison date: 10-23-2010 Print date: 10-23-2010	 Ľ٣ĸ
	n #: 01 Revison date: 10-23-2010 Print date: 10-23-2010	<u>с</u> ря

•

US federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.		
US TSCA Section 12(b) E		Notification requirement/De minimis concentration	
n-Heptane (CAS 142-8	2-5)	1.0 % One-Time Export Notification only.	
Pentane (CAS 109-66-		1.0 % One-Time Export Notification only.	
		tical: De minimis concentration	
1,2,4, Trimethylbenzen		1.0 %	
Benzene (CAS 71-43-2		0.1%	
Cumene (CAS 98-82-8) Cyclohexane (CAS 110		1.0%	
Ethylbenzene (CAS 10		1.0 % 0.1 %	
л-Hexane (CAS 110-54		1.0%	
Toluene (CAS 108-88-3	•	1.0%	
Xylene (o, m, p isomers	j (CAS 1330-20-7)	1.0 %	
US EPCRA (SARA Title III)	Section 313 - Toxic Chem	ical: Listed substance	
1,2,4, Trimethylbenzen	e (CAS 95-63-6)	Listed.	
Benzene (CAS 71-43-2	)	Listed.	
Cumene (CAS 98-82-8)		Listed.	
Cyclohexane (CAS 110		Listed.	
Ethylbenzene (CAS 100		Listed.	
n-Hexane (CAS 110-54 Toluene (CAS 108-88-3		Listed.	
Xylene (o, m, p isomers		Listed. Listed.	
CERCLA (Superfund) reportab	• • •	Liouzi,	
Gasoline 100 Toluene 100			
Xylene (o, m, p isomers) 100 Octane (Ali isomers) 100 n-Heptane 100 Pentane 100 Cumene 5000 Ethylbenzene 1000 Benzene 10 n-Hexane 5000 Cyclohexane 1000			
Superfund Amendments and R	teauthorization Act of 1986	6 (SARA)	
Hazard categories	Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No	· ·	
Section 302 extremely hazardous substance	No		
Section 311 hazardous chemical	No		
Drug Enforcement Agency (DEA)	Not controlled		
Canadian regulations	This product has been classified in accordance with the hazard criteria of the CPR and the MS contains all the information required by the CPR.		
WHMIS status	Controlled		
WHMIS classification	82 - Flammable/Combus D1A - Immediate/Serious D2A - Other Toxic Effect	s-VERY TOXIC	
	D28 - Other Toxic Effect		

UNLEADED GASOLINE 3536 Version #: 01 Prepared by 3E Company

Revison date: 10-23-2010 Print date: 10-23-2010

25/32

CPH MSDS NA 13/16

Page: 015

WHMIS labeling



- Country(s) or region	Inventory name			A.M. 11-
Australia Australian Inventory of Cher		Chemical Substances (A(C	S)	iory (yes/ŋ
Canada	Domestic Substances I	-	0,	) \
Canada	Non-Domestic Substances List (NDSL)			Y
China	Inventory of Existing Chemical Substances			
Europe		Existing Commercial Chemi		Y
Europe	•	d Chemical Substances (E	LINCS	
Japan		d New Chemical Substance		Y
Korea	Existing Chemicals List			T Y
New Zealand	New Zealand Inventory			r Y
Philippines		Chemicals and Chemical St	ubstances	Y
United States & Puerto Rico	Toxic Substances Cont	rol Act (TSCA) Inventory	s administered by the governing countr	
ate regulations	WARNING: This produc and birth defects or oth	t contains a chemical know	s administered by the governing country on to the State of California to cause	y(s) e cancer
US - California Hazardous S				
1,2,4, Trimethylbenzene i	-	Listed.		
Benzene (CAS 71-43-2)		Listed.		
Cumene (CAS 98-82-8)		Listed.		
Cyclohexane (CAS 110-8	2-7)	Listed.		
Ethanol (CAS 64-17-5) Ethylbenzene (CAS 100	14 A)	Listed.		
Hexane (Other Isomara) (		Listed. Listed.		
n-Heptane (CAS 142-82-4		Listed.		
n-Hexane (CAS 110-54-3		Listed.		
Octane (All isomers) (CA		Listed.		
Pentane (CAS 109-66-0)		Listed.		
Toluene (CAS 108-88-3)		Listed.		
Xylene (o, m, p isomers)	(CAS 1330-20-7)	Listed.		
US - California Proposition (	35 - Carcinogens & Repr	oductive Toxicity (CRT);	Listed substance	
Benzene (CAS 71-43-2)		Listed.		
Ethylbenzene (CAS 100-4	11-4)	Listed.		
Toluene (CAS 108-88-3)		Listed,		
US - California Proposition (	5 - CRT: Listed date/Ca	-		
Benzene (CAS 71-43-2)			. 1987 Carcinogenic.	
Ethylbenzene (CAS 100-4 US - California Proposition 6		Listed: June 11, 20	04 Carcinogenic.	
Benzene (CAS 71-43-2)	ov - VAT. Listed udterde			
Toluene (CAS 108-88-3)			26, 1997 Developmental toxin.	
US - California Proposition (	5 - CRT: Listed date/Fe	male rancoductive toyin	1991 Developmental toxin.	
Toluene (CAS 108-88-3)				
US - California Proposition 6	5 - CRT: Listed date/Ma	Lister. August /, 2) le reproductive tovin	009 Female reproductive toxin.	
Benzene (CAS 71-43-2)			6 1007 Mala rangedunting taxia	
US - Massachusetts RTK - S	ubstance: Listed substa	LIGLOU, LIGUSTING <u>, 2</u> IDCE	6, 1997 Male reproductive toxin.	
1,2,4, Trimethylbenzene (		Listed,		
Benzene (CAS 71-43-2)		Listed.		
Cumene (CAS 98-82-8)		Listed.		
Cyclohexane (CAS 110-8	2-7)	Listed.		
Ethanol (CAS 64-17-5)		Listed.		
Ethylbenzene (CAS 100-4		Listed.		
Hexane (Other Isomers) (	CAS 98-14-0)	Listed.		
LEADED GASOLINE				CPH MSOS

л-Нерtane (CAS 142-82-5)		Listed.		
n-Hexane (CAS 110-54-3)		Listed.		
Octane (All isomers) (CAS	111-65-9)	Listed.		
Pentane (CAS 109-66-0)	-	Listed.		
Toluene (CAS 108-88-3)		Listed.		
US - New Jersey Community	RTK (EHS Survey): Report	able threshold		
1,2,4, Trimethylbenzene (C	AS 95-63-8)	500 LBS		
Benzene (CAS 71-43-2)		500 LBS		
Cumene (CAS 98-82-8)		500 LBS		
Cyclohexane (CAS 110-82		500 LBS		
Ethylbenzene (CAS 100-41	(-4)	500 LBS		
n-Hexane (CAS 110-54-3)		500 LBS		
Pentane (CAS 109-66-0)		500 LBS		
Toluene (CAS 108-88-3)	AC 4880 00 1	500 LBS		
Xylene (o, m, p isomers) (C		500 LBS		
US - New Jersey RTK - Subst				
1,2,4, Trimethylbenzene (C	(AS 95-63-6)			
Benzene (CAS 71-43-2)				
Cumene (CAS 98-82-8)	7	Listed. Listed.		
Cyclohexane (CAS 110-82	-7)	Listed,		
Ethanol (CAS 64-17-5)	1_43	Listed.		
Ethylbenzene (CAS 100-41 n-Heptane (CAS 142-62-5)		Listed.		
n-Hexane (CAS 112-02-0)	•	Listed.		
Octane (All isomers) (CAS	111-65-9)	Listed.		
Pentane (CAS 109-66-0)		Listed,		
Xylene (o, m, p isomers) (0	CAS 1330-20-7)	Listed.		
US - Pennsylvania RTK - Haz	ardous Substances: Listed	substance		
1,2,4, Trimethylbenzene (C		Listed.		
Benzene (CAS 71-43-2)		Listed.		
Cumene (CAS 98-82-8)		Listed.		
Cyclohexane (CAS 110-82	2-7)	Listed.		
Ethanol (CAS 64-17-5)		Listed.		
Ethylbenzene (CAS 100-4		Listed.		
Gasoline (CAS 86290-81-5		Listed.		
Hexane (Other Isomers) ((		Listed.		
n-Heptane (CAS 142-82-5		Listed.		
n-Hexane (CAS 110-54-3)		Listed.		
Octane (All isomers) (CAS	(111-65-9)	Listed. Listed.		
Pentane (CAS 109-66-0)		Listed.		
Toluene (CAS 108-88-3) Xylene (o, m, p isomers) (i	CAR 1990.00.7)	Listed.		
US - Pennsylvania RTK - Haz	ardous Substances: Spec			
Benzene (CAS 71-43-2)		Special hazard.		
Denzene (CAS 71-43-2)				
16. Other Information				
Further information	•	e and service mark of the NPCA.		
Other information	Note: This Material Safety	Data Sheet applies to the listed products and synonym descriptions for		
	<ul> <li>Hazard Communication put</li> </ul>	rposes only. Technical Specifications vary greatly depending on the		
		ted in this document. Consult specification sheets for technical		
	information.			
HMIS® ratings	Health: 2"			
	Flammability: 3			
	Physical hazard: 0			
NFPA ratings	Health: 1			
-	Flammability: 3			
	Instability: 0			

UNLEADED GASOLINE 3536 Version #: 01 Prepared by 3E Company

Revison date: 10-23-2010 Print date: 10-23-2010

25/15

CPH MSOS NA 15 / 15

2992288919 992288919 11/51/5013 11:35 Nov-51-5013 10:15 50 **F 11** TO :

Disclaimer

This Material Safety Data Sheet (MSDS) was prepared in accordance with 29 CFR 1910.1200 by Valero Marketing & Supply Co., ("VALERO"). VALERO does not assume any liability arising out of product use by others. The information, recommendations, and suggestions presented in this MSDS are based upon test results and data believed to be reliable. The end user of the product has the responsibility for evaluating the adequacy of the data under the conditions of use, determining the satety, toxicity and suitability of the product under these conditions, and obtaining additional or clarifying information where uncertainty exists. No guarantee expressed or implied is made as to the effects of such use , the results to be obtained, of the safety and toxicity of the product in any specific application. Furthermore, the information herein is not represented as absolutely complete, since it is not practicable to provide all the scientific and study information in the format of this document, plus additional information may be necessary under exceptional conditions of use, or because of applicable laws or government regulations. 10-23-2010

760-268-4500

Page: 017

Issue date

UNLEADED GASOLINE 3536 Version #: 01 Prepared by 3E Company

Revison date: 10-23-2010

32/32

ZΈ **PAGE**  **LEMMEN** 

2992268919 28:11 8102/12/11 Nov-21-2013 10.12 917583776