

MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: GASOLINE, UNLEADED (Ethanol)

GENERAL USE: Motor fuel

PRODUCT DESCRIPTION: Blend of petroleum distillates, highly flammable. This MSDS covers multiple grades of lead-free and unleaded fuels: regular, premium, extra and oxygenated (ethanol).



MANUFACTURER'S NAME Tesoro Petroleum Companies, Inc.		DATE PREPARED: June 8, 2005	Page 1 of 6
ADDRESS (NUMBER, STREET, P.O. BOX) 300 Concord Plaza Drive		SUPERSEDES: New	
(CITY, STATE AND ZIP CODE) San Antonio, TX 78216-6999		COUNTRY USA	TELEPHONE NUMBER FOR INFORMATION Tesoro Call Center (877) 783-7676
DISTRIBUTOR'S NAME Same		EMERGENCY TELEPHONE NUMBER Chemtrec (800) 424-9300	
ADDRESS (NUMBER, STREET, P.O. BOX)		TELEPHONE NUMBER FOR INFORMATION	
(CITY, STATE AND ZIP CODE)		COUNTRY USA	EMERGENCY TELEPHONE NUMBER

SECTION 2 - HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENTS	CAS #	% (Sect. 16) (by volume)	OSHA PEL		ACGIH TWA		SARA TITLE III	RQ LBS
			PPM	MG/M3	PPM	MG/M3		
Gasoline	8006-61-9	100	300	900	300			
Contains or may contain:								
Toluene (a,b,c,e,f,g)	108-88-3	0 - 35	200		50		Yes	1000
Xylene (mixed) (a,b,c)	1330-20-7	0 - 25	100	435	100		Yes	1000
Pentane	109-66-0	0 - 20	1000	2950	600			
Trimethylbenzenes, mixed isomers (a)	25551-13-7	0 - 4			25		Yes	
Benzene (a,b,c,d,e,f)	71-43-2	0 - 5	1		0.5		Yes	10
Butane	106-97-8	0 - 12	800	1900		800		
Ethylbenzene (a,c)	100-41-4	0 - 5	100	435	125	545	Yes	1000
Heptane	142-82-5	0 - 2	500	2000	400			
Cyclohexane (a,b,c)	110-82-7	0 - 5	300	1050	300		Yes	1000
n-Hexane	110-54-3	0 - 8	500	1800	50	176		
n-Octane	111-65-9	0 - 1	500	2350	300	1400		
Ethanol	64-17-5	0 - 20	1000	1900	1000			
Naphthalene (a,b,c,g)	91-20-3	0 - 1.1	10	50	10		Yes	100
Trimethylbenzene 1,2,4 (a)	95-63-6	0 - 7	25	125			Yes	
Isopentane	78-78-4	0 - 20	not established					
Styrene (a,c,d,e,g)	100-42-5	0 - 4	100		20		Yes	1000
Alkanes, Cycloalkanes, Alkenes, Aromatic hydrocarbons		balance						

(a,c) See Section 15

(b) Indicates that the Resource Conservation and Recovery Act (RCRA) has determined the waste for this chemical is listed as hazardous and must be handled according to regulations in 40 CFR 260-281.

(d) Indicates substance appears on National Toxicology Program (NTP) list of carcinogens, International Agency for Research on Cancer (IARC) list of carcinogens or is regulated by the Occupational Safety and Health Administration (OSHA) as a possible carcinogen.

(e) Indicates listing in Table Z - , 29 CFR 1910.1000, one of 25 chemicals with substance - specific requirements; value shown is 8-hour Time Weighted Average. See table for acceptable ceiling concentration limits and acceptable maximum peak above the acceptable ceiling concentration.

(f) California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986, chemicals known to the state to cause cancer or reproductive toxicity. A person in the course of doing business must warn others who may consume, come into contact with, or otherwise be exposed to this chemical.

(g) Product is listed or defined as a marine pollutant in IMDG Code or 49 CFR 172.101 Appendix B, List of Marine Pollutants and must be classified as an Environmentally Hazardous Substance, Class 9, in addition to any other defined hazards for this product.

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SECTION 3 - HAZARDS IDENTIFICATION**EMERGENCY OVERVIEW**

Bronze to amber colored liquid, extremely flammable, potentially hazardous vapors. Can cause eye and skin irritation upon contact. Inhalation of vapors can cause anesthetic effect leading to death in poorly ventilated areas. Danger Poison! Harmful if swallowed and/or aspirated into the lungs. Hazard symbols for this product - F, Xi, Xn Risk Phrases - R11, 20, 36/38.

POTENTIAL HEALTH EFFECTS

INHALATION: High concentrations are irritating to the respiratory tract; may cause headache, dizziness, nausea, vomiting and malaise. Xylene causes central nervous system effects, anemia, liver and kidney effects, and eye damage after repeated or prolonged exposure to high concentrations.

SKIN: Brief contact may cause slight irritation; prolonged contact may cause moderate irritation or dermatitis. Xylene causes central nervous system effects, anemia, liver and kidney effects, and eye damage after repeated or prolonged exposure to high concentrations.

EYES: High vapor concentration or contact may cause irritation and discomfort.

INGESTION: May result in vomiting; aspiration of vomitus into the lungs must be avoided; DO NOT induce vomiting. Minute amounts aspirated into the lungs can produce severe lung injury, chemical pneumonitis, pulmonary edema or death.

CARCINOGENICITY

NTP? Yes IARC MONOGRAPHS? Yes OSHA REGULATED? Yes

Gasoline has been classified as a Group 2B carcinogen (possibly carcinogenic to humans) by the International Agency for Research on Cancer (IARC). Contains chemical(s) known to the State of California to cause cancer. Contains benzene, which has been classified as a carcinogen by the National Toxicology Program (NTP), and a Group 1 carcinogen (carcinogenic to humans) by the International Agency for Research on Cancer (IARC). Contains ethylbenzene which has been classified as a Group 2B carcinogen (possibly carcinogenic to humans) by the International Agency for Research on Cancer (IARC).

SECTION 4 - FIRST AID MEASURES

INHALATION: Remove affected person to fresh air; provide oxygen if breathing is difficult; if affected person is not breathing, administer CPR and seek immediate emergency medical attention.

SKIN: Remove contaminated clothing; wash affected area with soap and water; launder contaminated clothing before reuse; if irritation persists, seek medical attention.

EYES: Remove contact lenses. Flush eyes with clear running water for 15 minutes while holding eyelids open; if irritation persists, seek medical attention.

INGESTION: DO NOT induce vomiting; if vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs; seek immediate medical attention. Vomiting may be induced only under the supervision of a physician.

SECTION 5 - FIRE FIGHTING MEASURES**FLASH POINT (METHOD USED)**

-45° F (-42.7° C) TCC

FLAMMABLE LIMITS

LEL: 1.3%

UEL: 7.6%

AUTOIGNITION TEMPERATURE: 495° F (257° C)

NFPA CLASS: IA

GENERAL HAZARDS: This product presents an extreme fire hazard. Liquid evaporates very quickly, even at low temperatures, and forms vapor (fumes) which can catch fire and burn with explosive violence. Invisible vapor spreads easily and can be set on fire by many sources such as pilot lights, welding equipment, and electrical motors and switches.

EXTINGUISHING MEDIA

Carbon dioxide, water fog, dry chemical, chemical foam

FIRE FIGHTING PROCEDURES

Firefighters must wear full facepiece self - contained breathing apparatus in positive pressure mode. Do not use solid stream of water since stream will scatter and spread fire. Fine water spray can be used to keep fire - exposed containers cool.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers can explode due to buildup of pressure when exposed to extreme heat. Do not use direct stream of water on pool fires as product may reignite on water surface. Caution - Material is extremely flammable!

HAZARDOUS COMBUSTION PRODUCTS

Smoke, fumes, oxides of carbon

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SECTION 6 - ENVIRONMENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: CAUTION - EXTREMELY FLAMMABLE - Evacuate and ventilate area; confine and absorb into absorbent; place material into approved containers for disposal; for spills in excess of allowable limits (RQ) notify the National Response Center (800) 424 - 8802; refer to CERCLA 40 CFR 302 and SARA Title III, Section 313 40 CFR 372 for detailed instructions concerning reporting requirements.

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Keep container closed when not in use; protect containers from abuse; protect from extreme temperatures. CAUTION - EXTREMELY FLAMMABLE - keep away from all sources of ignition. "Empty" containers may contain residue which may form explosive vapors. Do not weld or cut near empty container that has not been professionally reconditioned. Use non-sparking tools when opening and closing containers. Maintain well ventilated work areas to minimize exposure when handling this material. Review all operations which have the potential of generating an accumulation of electrostatic charge and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation, and vacuum truck operations) and use appropriate mitigating procedures. Improper filling of portable gasoline containers creates danger of fire. Only dispense gasoline into approved and properly labeled gasoline containers.

Always place portable containers on the ground. Be sure pump nozzle is in contact with the container while filling. Do not use a nozzle's lock-open device. Do not fill portable containers that are inside a vehicle or truck/trailer bed.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION**ENGINEERING CONTROLS**

The use of local exhaust ventilation is recommended to control emissions near the source. Provide mechanical ventilation of confined spaces. Use explosion-proof ventilation equipment. See Section 2 for Component Exposure Guidelines.

PERSONAL PROTECTION:

RESPIRATORY PROTECTION (SPECIFY TYPE): None required while threshold limits (Section 2) are kept below maximum allowable concentrations; if TWA exceeds limits, NIOSH approved respirator must be worn. Refer to 29 CFR 1910.134 or European Standard EN 149 for complete regulations.

PROTECTIVE GLOVES: Neoprene or nitrile rubber gloves with cuffs.

EYE PROTECTION: Safety goggles with side shields

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Safety eyewash nearby

WORK / HYGIENIC PRACTICES: Practice safe workplace habits. Minimize body contact with this, as well as all chemicals in general.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

VAPOR PRESSURE (MM Hg) 5 - 15 PSI @ 100° F	VAPOR DENSITY (AIR = 1) 3.0 - 4.0
SPECIFIC GRAVITY (WATER = 1) 0.700 - 0.800	EVAPORATION RATE (n-Butyl Acetate = 1) < 1
SOLUBILITY IN WATER Negligible	FREEZING POINT Not determined
pH Not applicable	APPEARANCE AND ODOR Bronze to amber liquid, characteristic gasoline odor
BOILING POINT 80 - 430°F (26.6 - 221° C)	PHYSICAL STATE Liquid
VISCOSITY Not specified	VOLATILE ORGANIC COMPOUNDS (Total VOC's) 6.25 lbs / gallon

SECTION 10 - STABILITY AND REACTIVITY

STABILITY UNSTABLE: STABLE: XXX	CONDITIONS TO AVOID: Extreme temperatures, open flames, sparks
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INCOMPATIBILITY (MATERIALS TO AVOID): May react with strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Decomposition will not occur if handled and stored properly. In case of a fire, oxides of carbon, hydrocarbons, fumes, and smoke may be produced.

HAZARDOUS POLYMERIZATION MAY OCCUR: WILL NOT OCCUR: XXX	CONDITIONS TO AVOID: None
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SECTION 11 - TOXICOLOGICAL INFORMATION

Hazardous Ingredients	CAS #	EINECS #	LD50 of Ingredient (Species and Route)	LC50 of Ingredient (Species)
Gasoline	8006-61-9	232-349-1	18.8 ml / kg Oral - rat	20.7 ml / l Inhalation - rat
Contains or may contain:				
Toluene (a,b,c,e,f,g)	108-88-3	203-625-9	5000 mg / kg Oral - rat	7525 ppm / 4H
Xylene (mixed) (a,b,c)	1330-20-7	215-535-7	4300 mg / kg Oral - rat	5000 ppm / 4H Inhalation - rat
Pentane	109-66-0	203-692-4	Not established	364 gm / m3 / 4H Inhalation-rat
Trimethylbenzenes, mixed isomers (a)	25551-13-7	247-099-9	Not established	Not established
Benzene (a,b,c,d,e,f)	71-43-2	200-753-7	930 mg / kg Oral - rat	10000 ppm / 7H Inhalation - rat
Butane	106-97-8	203-448-7	Not established	658 mg / L / 4H Inhalation - rat
Ethylbenzene (a,c)	100-41-4	202-849-4	3500 mg / kg Oral - rat	4000 ppm/4H(LCLo) Inhalation - rat
Heptane	142-82-5	205-563-8	Not established	75 gm / m3 / 2H Inhalation - mouse
Cyclohexane (a,b,c)	110-82-7	203-806-2	813 mg / kg Oral - mouse	Not established
n-Hexane	110-54-3	203-777-6	28710 mg / kg Oral - rat	48000 ppm / 4H Inhalation-rat
n-Octane	111-65-9	203-892-1	Not established	118 gm / m3 / 4H Inhalation - rat
Ethanol	64-17-5	200-578-6	3450 mg / kg Oral - mouse	20,000 ppm / 10H Inhalation - rat
Naphthalene (a,b,c,g)	91-20-3	202-049-5	1780 mg / kg Oral - rat	Not established
Trimethylbenzene 1,2,4 (a)	95-63-6	202-436-9	5 gm / kg Oral - rat	18 gm / m3 / 4H Inhalation - rat
Isopentane	78-78-4	201-142-8	1600 - 3200 mg / kg Oral - rat	Not established
Styrene (a,c,d,e,g)	100-42-5	202-851-5	5000 mg / kg Oral - rat	24000 mg/m3/2H Inhalation - rat

SECTION 12 - ECOLOGICAL INFORMATION

No data are available on the adverse effects of this material on the environment. Neither COD nor BOD data are available. Based on the chemical composition of this product it is assumed that the mixture can be treated in an acclimatized biological waste treatment plant system in limited quantities. However, such treatment should be evaluated and approved for each specific biological system. None of the ingredients in this mixture are classified as a Marine Pollutant. In general, non-oxygenated gasoline exhibits some short-term toxicity to freshwater and marine organisms, especially under closed vessel or flow-through exposure conditions in the laboratory. The components which are the most prominent in the water soluble fraction and cause aquatic toxicity, are also highly volatile and can be readily biodegraded by microorganisms.

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose of in accordance with Local, State, and Federal Regulations. This product may produce concentrated hazardous vapors or fumes in a disposal container creating a dangerous environment. Refer to "40 CFR Protection of Environment Parts 260 - 299" for complete waste disposal regulations for ignitable materials. Consult your local, state, or Federal Environmental Protection Agency before disposing of any chemicals. Do not flush to sanitary sewer or waterway.

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SECTION 14 - TRANSPORT INFORMATION

PROPER SHIPPING NAME: Gasoline

HAZARD CLASS / Pack Group: 3 / II

REFERENCE: 49 CFR 173.150, .202, .242

IDENTIFICATION NUMBER: UN 1203

LABEL: FLAMMABLE LIQUID

HAZARD SYMBOLS: F

IATA HAZARD CLASS / Pack Group: 3 / II

IMDG HAZARD CLASS: 3.1 / II

RID/ADR Dangerous Goods Code: 3

Canadian TDG Class / Division: 3.2

Note: Transportation information provided is for reference only. Client is urged to consult CFR 49 parts 100 - 177, IMDG, IATA, EC, Canadian TDG, and United Nations TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

SECTION 15 - REGULATORY INFORMATION

TSCA (Toxic Substance Control Act)

Motor gasoline is considered a mixture by EPA under the Toxic Substances Control Act (TSCA). The refinery streams used to blend motor gasoline are all on the TSCA Chemical Substances Inventory. This product may contain methyl tertiary-butyl ether (CAS #1634-04-4) or tert-amyl methyl ether (CAS #994-05-8), both of which are currently undergoing review and testing under TSCA Section 4. Notification to the U.S. EPA Office of Toxic Substances is required prior to export of this material from the United States.

SARA TITLE III (Superfund Amendments and Reauthorization Act)

- 311/312 Hazard Categories
 - Immediate (Acute) Health Effects
 - Delayed (Chronic) Health Effects
 - Fire Hazard

313 Reportable Ingredients:

- (a) Indicates a toxic chemical subject to annual reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

CERCLA (Comprehensive Response Compensation and Liability Act)

- (c) The Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) has notification requirements for releases or spills to the environment of the Reportable Quantity or greater amounts, according to 40 CFR 302.

CPR (Canadian Controlled Products Regulations)

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations. WHMIS Classification: B2, D2B

IDL (Canadian Ingredient Disclosure List)

Components of this product identified by CAS number and listed on the Canadian Ingredient Disclosure List are shown in Section 2.

DSL / NDSL (Canadian Domestic Substances List / Non-Domestic Substances List)

Components of this product identified by CAS number are listed on the DSL or NDSL, or are otherwise in compliance with the New Substances Notification (NSN) regulations. Only ingredients classified as "hazardous" are listed in Section 2 unless otherwise indicated.

EINECS (European Inventory of Existing Commercial Chemical Substances)

Components of this product identified by CAS numbers are on the European Inventory of Existing Commercial Chemical Substances.

California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986

Warning: This product contains a chemical known to the State of California to cause cancer.

EC Risk Phrases

- R11 Highly flammable
- R20 Harmful by inhalation
- R36/38 Irritating to eyes and skin.

SYMBOL(S) REQUIRED FOR LABEL

Harmful Flammable



EC Safety Phrases

- S16 Keep away from sources of ignition
- S23 Do not breathe vapor
- S25 Avoid contact with eyes
- S28 After contact with skin, wash immediately with plenty of soap and water.
- S29 Do not empty into drains

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SECTION 16 - OTHER INFORMATION

Values stated in "%" column in Section 2 and Section 11 do not reflect absolute minimums and maximums; these values are typical which may vary from time to time.

NFPA HAZARD RATINGS	HEALTH	1*	* = Chronic Health Hazard	2 = MODERATE
	FLAMMABILITY	3	0 = INSIGNIFICANT	3 = HIGH
	PHYSICAL HAZARD	0	1 = SLIGHT	4 = EXTREME
PERSONAL PROTECTIVE EQUIPMENT		B	Safety Glasses, Gloves	

REVISION SUMMARY:

This MSDS has been revised in the following sections: No changes

MSDS Prepared by: Chem-Tel, Inc.
1305 N. Florida Ave.
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Handling, storage, use or disposal of the above-referenced product is beyond our control and may occur under conditions with which we are unfamiliar. FOR THESE AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM ANY LIABILITY FOR DAMAGE, INJURY AND COST ARISING FROM OR RELATED TO THE USE OF THE PRODUCT.

Product Number(s) :

5	73	190	338	517
9	85	199	339	1043
17	91	265	340	1045
19	107	267	501	1416
20	110	268	502	1417
21	131	269	503	1419
25	133	270	504	1420
26	181	281	505	
61	185	335	506	
63	188	336	516	