

# MATERIAL SAFETY DATA SHEET

## SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** 11.2# Natural Gasoline  
**GENERAL USE:** Fuel  
**PRODUCT DESCRIPTION:** Colorless highly flammable liquid, characteristic gasoline odor.



<b>MANUFACTURER'S NAME</b> Devon Energy Corporation	<b>DATE PREPARED:</b> February 2, 2007 <b>SUPERSEDES:</b> New	Page 1 of 5
<b>ADDRESS (NUMBER, STREET, P.O. BOX)</b> 20 North Broadway (CITY, STATE AND ZIP CODE) Oklahoma City, OK 73102	<b>TELEPHONE NUMBER FOR INFORMATION</b> (405) 235-3611 <b>EMERGENCY TELEPHONE NUMBER</b> Chemtrec (800) 424-9300 Outside USA (703) 527-3887	
<b>DISTRIBUTOR'S NAME</b> Same		
<b>ADDRESS (NUMBER, STREET, P.O. BOX)</b> (CITY, STATE AND ZIP CODE)	<b>TELEPHONE NUMBER FOR INFORMATION</b> (CITY, STATE AND ZIP CODE)	
COUNTRY USA	<b>EMERGENCY TELEPHONE NUMBER</b>	

## SECTION 2 - HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENTS	CAS #	%	OSHA PEL		ACGIH TWA		SARA TITLE III	RQ LBS
			PPM	MG/M3	PPM	MG/M3		
Isopentane	78-78-4	15 - 40	not established					
Pentane	109-66-0	15 - 40	1000	2950	600	1770		
2,3-Dimethylbutane	79-29-8	1 - 5	not established					
2-Methylpentane	107-83-5	5 - 10	500					
3-Methylpentane	96-14-0	3 - 7	not established					
n-Butane	106-97-8	1 - 5	800	1900	800			
n-Hexane	110-54-3	5 - 10	500	1800	50	176		
Methyl cyclopentane	96-37-7	1 - 5	not established					
Benzene (a,b,c,d,e,f)	71-43-2	0.5 - 1.0	10		0.5		Yes	10
Cyclohexane (a,b,c)	110-82-7	5 - 10	100	1015	100		Yes	1000
Dimethylpentanes	Mixture	1 - 5	not established					
2-Methyl hexane	591-76-4	1 - 5	not established					
3-Methyl hexane	589-34-4	1 - 5	not established					
Dimethylcyclopentanes (g)	Mixture	1 - 5	not established					
Heptane	142-82-5	1 - 5	500	2000	400	1639		
Methyl cyclohexane	108-87-2	1 - 5			400	1606		
Toluene (a,b,c,e,f)	108-88-3	1 - 5	200		50		Yes	1000
Methylheptanes (g)	Mixture	1 - 5	not established					

- (a) A "Yes" in the SARA TITLE III column in Section 2 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.
- (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.
- (c) The Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) has notification requirements for releases or spills to the environment of the Reportable Quantity (RQ for this mixture > 24,000 lbs) or greater amounts, according to 40 CFR 302.
- (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 - 2, 29 CFR 1910.1000, 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 not listed on the Canadian DSL or NDSL. All other components of this product identified by CAS number are listed on the DSL or NDSL. Only ingredients classified as "hazardous" are listed in Section 2 unless otherwise indicated.



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**SECTION 6 - ACCIDENTAL 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 material; place material into approved containers for disposal; for spills in excess of allowable quantities (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. Use non-sparking tools when opening and closing containers. Maintain well ventilated work areas to minimize exposure when handling this material.

**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.

**PERSONAL PROTECTION:**

RESPIRATORY PROTECTION (SPECIFY TYPE): None required while threshold limits 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 EN149 13.340.30 for complete regulations.

PROTECTIVE GLOVES: Neoprene, butyl or nitrile rubber gloves with cuffs.

EYE PROTECTION: Chemical splash goggles. Refer to 29 CFR 1910.133 or European Standard EN166 13.340.01.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Safety eyewash station 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 13.2 psi @ 100° F	VAPOR DENSITY (AIR = 1) 2.88
SPECIFIC GRAVITY (WATER = 1) 0.659	EVAPORATION RATE (n-Butyl acetate = 1) > 1
SOLUBILITY IN WATER Negligible	FREEZING POINT Not determined
pH Not applicable	APPEARANCE AND ODOR Colorless liquid, characteristic gasoline odor
BOILING POINT 100° F ( 37.8° C )	PHYSICAL STATE Liquid
VISCOSITY Like that of water	VOLATILE ORGANIC COMPOUNDS (Total VOC's) 5.5 pounds / gallon ( 654 grams / liter )

**SECTION 10 - STABILITY AND REACTIVITY**

STABILITY UNSTABLE: STABLE: XXX	CONDITIONS TO AVOID: Extreme temperatures, open flames, sparks.
INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers, strong acids.	
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Decomposition will not occur if handled and stored properly. In case of a fire, oxides of carbon, hydrocarbons, fumes or vapors, 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 (All products may not be listed if information is not available. Refer to Section 2 for footnotes.)	CAS #	LD50 of Ingredient (Species and Route)	LC50 of Ingredient (Species)
Isopentane	78-78-4	1600 - 3200 mg / kg Oral - rat	Not established
Pentane	109-66-0	Not established	364 gm / m3 / 4H Inhalation-rat
2,3-Dimethylbutane	79-29-8	Not established	Not established
2-Methylpentane	107-83-5	Not established	Not established
3-Methylpentane	96-14-0	Not established	Not established
n-Butane	106-97-8	Not established	658 mg / L / 4H Inhalation - rat
n-Hexane	110-54-3	28710 mg / kg Oral - rat	48000 ppm / 4H Inhalation-rat
Methyl cyclopentane	96-37-7	Not established	Not established
Benzene (a,b,c,d,e,f)	71-43-2	930 mg / kg Oral - rat	10000 ppm / 7H Inhalation - rat
Cyclohexane (a,b,c)	110-82-7	813 mg / kg Oral - mouse	Not established
Dimethylpentanes	Mixture	Not established	Not established
2-Methyl hexane	591-76-4	Not established	Not established
3-Methyl hexane	589-34-4	Not established	Not established
Dimethylcyclopentanes (g)	Mixture	Not established	Not established
Heptane	142-82-5	Not established	75 gm / m3 / 2H Inhalation - mouse
Methyl cyclohexane	108-87-2	2,250 mg / kg Oral - mouse	41,500 mg / m3 Inhalation - mouse
Toluene (a,b,c,e,f)	108-88-3	5000 mg / kg Oral - rat	7525 ppm / 4H Inhalation - mouse
Methylheptanes (g)	Mixture	Not established	Not established

**SECTION 12 - ECOLOGICAL INFORMATION**

No data is available on the adverse effects of this material on the environment. Neither chemical oxygen demand nor biochemical oxygen demand 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.

**SECTION 13 - DISPOSAL CONSIDERATIONS**

WASTE DISPOSAL METHOD: Dispose of in accordance with local, state, and federal regulations. This product may produce hazardous vapors in a closed disposal container creating a dangerous environment. Refer to 40 CFR 260 - 299 for complete waste disposal regulations. Consult your local, state, or federal agency before disposing of any chemicals. Do not flush to sanitary sewer or waterway.

**SECTION 14 - TRANSPORT INFORMATION**

PROPER SHIPPING NAME: Gasoline

DOT HAZARD CLASS / Pack Group: 3 / II  
REFERENCE: 49 CFR 173.150, .202, .242  
UN / NA 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  
UN TDG Class / Pack Group: 3 / II

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

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**SECTION 15 - REGULATORY INFORMATION**

**TSCA (Toxic substance Control Act)**

All components of this product are listed on the U.S. Toxic Substances Control Act Chemical Inventory (TSCA Inventory) or are exempted from listing because a Low Volume Exemption has been granted in accordance with 40 CFR 723.50.

**SARA TITLE III (Superfund Amendments and Reauthorization Act)**

311/312 Hazard Categories  
Fire hazard, immediate health

313 Reportable Ingredients:

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)**

The Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) has notification requirements for releases or spills to the environment of the Reportable Quantity (RQ for this mixture > 24,000 lbs) or greater amounts, according to 40 CFR 302.

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

There are chemicals present (benzene, toluene) known to the state of California to cause cancer or reproductive toxicity.

**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: D2B, B2

**IDL (Canadian Ingredient Disclosure List)**

Components of this product identified by CAS number are listed on the Canadian Ingredient Disclosure List as 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.

**SECTION 16 - OTHER INFORMATION**

No specific notes.

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

**REVISION SUMMARY:**

This MSDS has been revised in the following sections: No revisions available

MSDS Prepared by: Chem-Tel, Inc.  
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Tampa, Florida USA 33602  
(800) 255-3924 Outside USA (813) 248-0573

The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.