

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

El Paso Corporation
and its subsidiaries
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Houston, Texas 77002

Information: (713) 420-2600
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Product Name: Natural Gas Condensates Last Revision: 06/26/07
MSDS Number: A0021.msds Date Prepared: 10/27/85

Synonyms: Liquids, Natural Gas
Product Description: Complex mixture of aromatic and aliphatic Hydrocarbons

2. COMPOSITION & INFORMATION ON INGREDIENTS

Components(s)						
Product/ Components	CAS No.	Wt% ⁽⁴⁾	Occupational Exposure Limits			Units
			OSHA ⁽¹⁾	ACGIH ⁽¹⁾	NIOSH ⁽²⁾	
Natural Gas Condensates	68919-39-1	100	N/A	N/A	N/A	N/A
Ethane	74-84-0	1-60	Simple Asphyxiant ⁽³⁾	1000	N/A	ppm
Propane	74-98-6	20-60	1000	1000	1000	ppm
n-Butane	106-97-8	2-5	800 ⁽³⁾	1000	800	ppm
n-Pentane	109-66-0	5-25	600 ⁽³⁾	600	120	ppm
Benzene	71-43-2	0-2	1 5 ^{STEL}	0.5 2.5 ^{STEL}	0.1 1 ^{STEL}	ppm
Toluene	108-88-3		100 ⁽³⁾ 150 ^{STEL(3)}	20	100 150 ^{STEL}	ppm
Cyclohexane	110-82-7	1-5	300	100	300	ppm
Hydrogen Sulfide	7783-06-4	0.1-2	20 ^{ceiling}	10 15 ^{STEL}	10 ^{ceiling}	ppm
Ethylbenzene	100-41-4	0.1-5	100 ⁽³⁾ 125 ^{STEL(3)}	100 125 ^{STEL}	100 125 ^{STEL}	ppm
Xylenes	1330-20-7	0.1-5	100 ⁽³⁾ 150 ^{STEL(3)}	100 150 ^{STEL}	100 150 ^{STEL}	ppm
n-Hexane	110-54-3	2-13	50 ⁽³⁾	50	50	ppm
Heptane	142-82-5	1-10	400 ⁽³⁾ 500 ^{STEL(3)}	400 500 ^{STEL}	85	ppm
Octane	111-65-9	1-10	300 ⁽³⁾ 375 ^{STEL(3)}	300	75	ppm

⁽¹⁾8-hour TWA unless otherwise specified.

⁽²⁾10-hour TWA unless otherwise specified.

⁽³⁾Vacated 1989 PEL. The manufacturer has included this data for informational purposes since these values were vacated in 1992.

⁽⁴⁾Normal composition ranges are shown. Exceptions may occur depending upon the source of the condensate.

Note: Composition will vary with geographic location, geologic formation, temperature and pressure.

3. HAZARD IDENTIFICATION

Note: This product has not been tested by El Paso Corporation to determine its specific health hazards. Therefore, the information provided in this section includes health hazard information on the product components.

Carcinogenicity:	NTP	IARC Monographs	OSHA Regulated
Condensate	No	No	No
Benzene	Yes	Yes	Yes

Potential Health Effects From Overexposure

Acute Effects:

Eyes: Slight to moderate irritation.

Skin: Moderately irritating; causing redness, drying of skin.

Inhalation: Irritating to mucous membrane and respiratory tract. Can act as a simple asphyxiant. Overexposure may lead to headache, nausea, drowsiness, fatigue, pneumonitis, pulmonary edema, CNS depression, coma and respiratory arrest.

Ingestion: Stomach irritation, gastritis, headache, nausea, drowsiness, loss of consciousness, convulsions, cyanosis, pneumonitis, pulmonary edema and CNS depression, capillary hemorrhaging of the lung and internal organs. Aspiration hazard if vomiting occurs.

Chronic Effects:

Skin and eye irritation. May affect the respiratory and central nervous system.

Additional Medical and Toxicological Information:

Contact with full strength or dilute formulations of this product or exposure above and below exposure limits may aggravate pre-existing dermatitis or respiratory disorders in certain individuals. This product contains benzene, which can cause degeneration in blood forming organs leading to anemia which may further degrade to leukemia. N-butane has been shown to cause mild cardiac sensitization in laboratory test animals.

4. FIRST AID MEASURES

Eye Contact: Principally a thermal hazard. If liquid condensates contact the eye, immediately flush are

with lukewarm water. Get medical attention.

Skin Contact: Promptly flush the area with tepid water. Get medical attention if skin burns occur.

Inhalation: Remove to fresh air. Apply artificial respiration if not breathing. Get medical attention.

Ingestion: Do not induce vomiting. Seek medical attention immediately.

5. FIRE FIGHTING MEASURES

Flash Point: -170°F

Flammable Limits in Air % by Vol.:

Lower: 3.0

Upper: 12.5

Autoignition Temperature: 760°F

Extinguishing Media: Dry chemical, foam or carbon dioxide.

NFPA Ratings: NA

General Hazard:

Flowing condensates can be ignited by self-generated static electricity; containers should be grounded and bonded. Runoff to sewer may create fire or explosion hazard well downstream from the source.

Fire Fighting Instructions:

Use a smothering technique for extinguishing fire of this flammable liquid. Do not use a forced water stream directly on condensate fires as this will scatter the fire. Use a water spray to cool fire-exposed containers. It can be a dangerous fire and explosion hazard when mixed with air. Firefighters should wear self-contained breathing apparatus and full protective clothing.

6. ACCIDENTAL RELEASE

Remove source of heat or ignition including internal combustion engines and power tools. Stay upwind and warn people downwind of possible explosion. Wear self-contained breathing apparatus if conditions warrant.

7. HANDLING & STORAGE

Store in tightly closed containers in a dry cool place, away from incompatible materials or sources of heat and ignition. Ground and bond all transfer and storage equipment to prevent static sparks. Empty containers may contain residue (liquid/vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill,

grind, or expose such containers to heat, flame, sparks or other sources of ignition; they may explode and cause injury or death.

8. EXPOSURE CONTROL, PERSONAL PROTECTION

Eye Protection: If contact with liquid condensates is possible, chemical splash goggles or face shield may be required.

Skin Protection: Where contact with liquid condensates is possible, use protective clothing and/or gloves.

Inhalation: Self-contained breathing apparatus should be available for emergency use or in applications where airborne concentrations may exceed occupational exposure limits.

Ventilation: Provide adequate general and local ventilation: (1) to maintain airborne chemical concentrations below applicable exposure limits, (2) to prevent accumulation of flammable vapors and formation of explosive atmospheres, and (3) to prevent formation of oxygen deficient atmospheres, especially in confined spaces. [Note: this product may release gases or vapors that can displace oxygen in enclosed areas.]

9. PHYSICAL & CHEMICAL PROPERTIES

Boiling Point @ 1 atm: -70 °F(estimate) Melting Point: -122°F
Vapor Pressure @ 77 °F: 7.85-43.3 Vapor Density(Air=1): N/A
% Solubility in H₂O @20°C: Negligible pH: N/A
Specific Gravity 60/60F: 0.8 Evaporation Rate:
% Volatile by Volume : 100 (Ethyl ether=1): >1
Viscosity(method, temp.): N/A Odor: Petroleum like odor;
Appearance: Brown to clear liquid. slight foul (rotten)
odor due to hydrogen sulfide.

10. STABILITY & REACTIVITY

Stability: Stable under normal conditions of use.

Hazardous Polymerization: Will not occur.

Conditions to Avoid/Incompatibilities: Strong oxidizing agents, heat, sparks, flame and build-up of static electricity.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide and hydrocarbons.

11. TOXICOLOGICAL INFORMATION

No data available.

12. ECOLOGICAL INFORMATION

No data available.

13. DISPOSAL INFORMATION

Dispose through a licensed waste disposal company. Follow applicable federal, state and local disposal regulations.

14. TRANSPORT INFORMATION

No data available.

15. REGULATORY INFORMATION

EPA SARA TITLE III

Section 302 EPCRA Extremely Hazardous Substances (EHS)

Product Component	CAS No.	Wt%	RQ, lb	TPQ, lb
Hydrogen Sulfide	7783-06-4	0.1-2	100	500

Section 304 CERCLA Hazardous Substances

Product Component	CAS No.	Wt%	RQ, lb
Benzene	71-43-2	0-5	10
Toluene	108-88-3	0.1-5	1000
Xylene	1330-20-7	0.1-5	100
Cyclohexane	110-82-7	0.1-5	1000
Hydrogen Sulfide	7783-06-4	0.1-2	100
Ethylbenzene	100-41-4	0.1-5	1000
n-Hexane	110-54-3	1-10	5000

Section 311/312 Hazard Categorization

Acute:	Chronic:	Fire:	Pressure:	Reactive:
X	X	X		

Section 313 EPCRA Toxic Substances

Product Component	CAS No.	Wt. %
Benzene	71-43-2	0-5
Toluene	108-88-3	0.1-5
Xylene	1330-20-7	0.1-5
Cyclohexane	110-82-7	0.1-5
Hydrogen Sulfide	7783-06-4	0.1-2
Ethylbenzene	100-41-4	0.1-5
N-Hexane	110-54-3	1-10

Key: RQ = Reportable Quantity
TPQ = Threshold Planning Quantity (EHS)

CALIFORNIA PROPOSITION 65 WARNING

Chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm may be found in crude oil and petroleum products. Although it is possible to sufficiently refine a crude oil or its end products to remove the potential for cancer, we are advising that one or more of the listed chemicals may be present in some detectable quantities. Read and follow directions and use care when handling crude oil and petroleum products.

16. OTHER INFORMATION

THIS INFORMATION RELATES ONLY TO THE SPECIFIC MATERIAL DESIGNATED AND MAY NOT BE VALID FOR SUCH MATERIAL USED IN COMBINATION WITH ANY OTHER MATERIALS OR IN ANY PROCESS. SUCH INFORMATION IS TO THE BEST OF THIS COMPANY'S KNOWLEDGE AND BELIEVED ACCURATE AND RELIABLE AS OF THE DATE INDICATED. HOWEVER, NO REPRESENTATION, WARRANTY OR GUARANTEE IS MADE AS TO THE ACCURACY, RELIABILITY OR COMPLETENESS. IT IS THE USER'S RESPONSIBILITY TO SATISFY THEMSELVES AS TO THE SUITABILITY AND COMPLETENESS OF SUCH INFORMATION FOR THEIR OWN PARTICULAR USE.

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