



## MATERIAL SAFETY DATA SHEET

### 1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

El Paso Corporation  
and its subsidiaries  
1001 Louisiana Street  
Houston, Texas 77002

Information: (713) 420-2600

CHEMTREC: (800) 424-9300

**Product Name:** Produced Water  
**MSDS Number:** A0133.msdl  
**Last Revision:** 10/19/06  
**Date Prepared:** 03/07/06

**Synonyms:** Formation Water, Salt Water, H<sub>2</sub>O, Oily Water  
**Product Description:** Water extracted from natural gas well production with residual mineral contents and residual hydrocarbons.

### 2. COMPOSITION & INFORMATION ON INGREDIENTS

Product	CAS No	Wt%	Occupational Exposure Limits*			Units
			OSHA PEL	ACGIH TLV	Other	
Produced Water	Mixture	N/A	N/A	N/A		
<b>Components</b>						
Water		>68**	N/A			
Mineral Variety		<32	N/A			
Gas Condensate	8002-05-9	<1	N/A	N/A		ppm
Benzene	71-43-2	<1	1.0	0.5	5 STEL	ppm
Hydrogen Sulfide	7783-06-4	<1	10#	10	15 STEL	ppm

Key: \* = 8-Hr. TWA unless otherwise specified  
\*\* = Normal composition ranges are shown. Exceptions may occur depending upon the source of the produced water.  
N/A = Not Available  
STEL = Short Term Exposure Limit; 15 minutes.  
# = Vacated 1989 PEL. The manufacturer has included this data for informational purposes since these values were vacated in 1992.

### 3. HAZARDS 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.

<b>Carcinogenicity:</b>	<b>NTP</b>	<b>IARC Monographs</b>	<b>OSHA Regulated</b>
Benzene	Yes	Yes	Yes

**Potential Health Effects from Overexposure:**

**Acute Effects:**

- Eyes: May cause eye irritation. Eye contact with H<sub>2</sub>S gas may cause painful irritation and may be indicative of exposure above applicable H<sub>2</sub>S standards.
- Skin: Contact may cause skin irritation.
- Inhalation: Breathing the mist and vapors may be irritating to the respiratory tract. H<sub>2</sub>S is irritating and highly toxic if inhaled.
- Ingestion: Ingestion may cause irritation of the digestive tract that may result in nausea, vomiting and diarrhea. In addition, signs and symptoms of H<sub>2</sub>S toxicity may be present.

***Chronic Effects:***

Not determined.

***Additional Medical and Toxicological Information:***

Natural gas condensate and some of its fractions, which can contaminate produced water, have been shown to cause skin irritation damage and even cancers when applied directly and repeatedly to the skin. When laboratory animals inhale oil vapors at high concentration or ingest in repeated doses, various tumors have developed.

Benzene is recognized as a human carcinogen by OSHA, NTP, ACGIH and IARC. Benzene affects the blood system and can develop a form of leukemia (see 29 CFR 1910.1028 for standard).

#### **4. FIRST AID MEASURES**

- Eye Contact: Flush eyes with clean, low-pressure water for at least 15 minutes, occasionally lifting the eyelids. If pain or redness persists after flushing, obtain medical attention. If eye is exposed to hot liquid, cover eyes with cloth and seek medical attention immediately by calling 911.
- Skin Contact: In case of hot liquid exposure, do not remove clothing or treat – wash only unburned area and seek medical attention immediately by calling 911.
- Inhalation: Immediately remove person to area of fresh air. For respiratory distress, give oxygen, rescue breathing, or administer CPR if necessary. Obtain prompt medical attention by calling 911.
- Ingestion: Do not induce vomiting. Seek medical attention.

**Medical Providers:** Medical providers are urged to contact a Regional Poison Center at 800-222-1222.

#### **5. FIRE FIGHTING MEASURES**

- Flash Point: N/A
- Flammable Limits in Air, % by Volume:  
Lower: 4.0  
Upper: 46.0
- Autoignition Temperature: N/A

Extinguishing Media: Dry chemical, foam, carbon dioxide, or water spray.  
NFPA Ratings: Health: 1                      Flammability: 4                      Reactivity: 0

**General Hazard:**

May react with strong oxidizing materials and a wide variety of chemicals. Forms explosive mixtures with air.

**Fire Fighting Instructions:**

Any fire would be associated with any natural gas condensate floating on the surface of he produced water. Water may be ineffective on flames but should be used to keep fire exposed containers cool. Keep the surrounding areas cool by using water mists. Firefighters should wear self-contained breathing apparatus and full protective clothing.

**6. ACCIDENTAL RELEASE MEASURES**

Stop the source of the leak or release. Clean up the releases as soon as possible, observing precautions in Personal Protection Equipment section. Contain liquid to prevent further contamination of soil and surface water. Cleanup small spills using appropriate techniques. Where feasible and appropriate, remove contaminated soil or flush with fresh water. Follow prescribed procedures for reporting and responding to larger releases. Advise authorities and the National Response Center (800-424-8802) if the release is to a watercourse.

**7. HANDLING & STORAGE**

Store and transfer away from sources of ignition. Use only explosion proof or intrinsically safe electrical equipment where product is stored or handled. Store containers in a well ventilated area. Do not handle near food or drinking water. Wash after handling and shower at end of work period.

**8. EXPOSURE CONTROLS AND PERSONAL PROTECTION**

Eye Protection:	Chemical goggles or face shield should be worn when handling product if the possibility of spray exists.
Skin Protection:	Normal working clothes should be worn. Wash contaminated clothing prior to reuse.
Inhalation:	Respiratory protection is not required for normal use. At excessive concentrations, wear a NIOSH approved air purifying respirator with organic vapor cartridges.
Ventilation:	Work in well ventilated areas. Use non-sparking tools where liquids or vapors from the condensate contamination may be generated at flammable concentrations.

**9. PHYSICAL & CHEMICAL PROPERTIES**

Boiling Point @760 mmHg: 212°F  
Vapor Pressure mmHg @100°F: N/A  
% Solubility in H<sub>2</sub>O: Soluble in water  
Specific Gravity 60/60F: >1@0°C  
% Volatile by Volume: Negligible

Freezing Point: <32 °F  
Vapor Density (Air=1): 1.2  
pH: N/A  
Evaporation Rate: N/A  
Odor: Slight hydrocarbon and/or rotten egg

Viscosity (method, temp.): N/A

Appearance: Clear or opaque liquid

#### 10. STABILITY & REACTIVITY

**Stability:** Stable.

**Hazardous Polymerization:** Will not occur.

**Conditions to Avoid/Incompatibilities:** Keep material away from heat, sparks, open flames, and oxidizers such as chlorine.

**Hazardous Decomposition Products:** Normal combustion of H<sub>2</sub>S creates sulfur oxides.

#### 11. TOXICOLOGICAL INFORMATION

Refer to Section 3.

#### 12. ECOLOGICAL INFORMATION

No data available.

#### 13. DISPOSAL CONSIDERATIONS

This product is not a "listed" hazardous waste. But when disposed of in containers may meet the criteria of being an "ignitable" waste. It is the responsibility of the user to determine if the material disposed of meets federal, state, or local criteria to be defined as a hazardous waste.

#### 14. TRANSPORT INFORMATION

Water, liquid, DOT Number N/A

#### 15. REGULATORY INFORMATION

##### EPA SARA TITLE III

##### **Section 302 EPCRA Extremely Hazardous Substances (EHS)**

Product Component	CAS No.	Wt%	RQ, lb	TPQ, lb
None				

##### **Section 304 CERCLA Hazardous Substances**

Product Component	CAS No.	Wt%	RQ, lb
Benzene	71-43-2	<1	10
Hydrogen Sulfide	7783-06-4	<1	100

##### **Section 311/312 Hazard Categorization**

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

##### **Section 313 EPCRA Toxic Substances**

Ingredient	CAS No.	Wt. %
Benzene	71-43-2	<1
Hydrogen Sulfide	7783-06-4	<1

Key RQ = Reportable Quantity

TPQ = Threshold Planning Quantity of 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 HIS OWN PARTICULAR USE.

This is the end of MSDS A0133.msdl



NFPA 704 (Section 16)

**AMERADA HESS CORPORATION****MATERIAL SAFETY DATA SHEET****Natural Gas Condensate (sweet)****MSDS No. 15017****1. CHEMICAL PRODUCT and COMPANY INFORMATION (rev. Aug-98)**

Amerada Hess Corporation  
1 Hess Plaza  
Woodbridge, NJ 07095-0961

**EMERGENCY TELEPHONE NUMBER (24 hrs):** CHEMTREC (800) 424-9300  
**COMPANY CONTACT (business hours):** Corporate Safety (732) 750-6000  
**SYNONYMS:** Drips; Condensate; Field Condensate; Gas Well Condensate; High Pressure Inlet Liquids; Lease Condensate; Pipeline Liquids  
See Section 16 for abbreviations and acronyms.

**2. COMPOSITION and INFORMATION ON INGREDIENTS (rev. Aug-98)**

INGREDIENT NAME	EXPOSURE LIMITS	CONCENTRATION PERCENT BY WEIGHT
Natural Gas Condensate CAS NUMBER: 68919-39-1	OSHA PEL-TWA: 500 ppm as petroleum distillate (naphtha)	100
Benzene CAS NUMBER: 71-43-2	OSHA PEL-TWA/STEL: 1 / 5 ppm ACGIH TLV-TWA/STEL: 0.5/2.5 ppm, A1, skin US Coast Guard: same as OSHA	< 0.1 to 2.0

A complex combination of hydrocarbons separated and/or condensed from natural gas and containing carbon numbers predominantly in the range C2-C20. Can contain as much as 15-20 wt% methane (C1), ethane (C2), and propane (C3), 20 wt% butanes (C4) and up to 6 - 7 wt% carbon dioxide (CO<sub>2</sub>) depending on natural gas production process conditions and pressure.

**3. HAZARDS IDENTIFICATION (rev. Aug-98; Tox-98)****EMERGENCY OVERVIEW****DANGER!****FLAMMABLE - EYE AND MUCOUS MEMBRANE IRRITANT - EFFECTS CENTRAL NERVOUS SYSTEM - HARMFUL OR FATAL IF SWALLOWED - ASPIRATION HAZARD**

High fire hazard. Keep away from heat, spark, open flame, and other ignition sources.

Contact may cause eye, skin and mucous membrane irritation. Avoid prolonged breathing of vapors or mists. Inhalation may cause irritation, anesthetic effects (dizziness, nausea, headache, intoxication), and respiratory system effects. If ingested, do NOT induce vomiting, as this may cause chemical pneumonia (fluid in the lungs).

May contain benzene which can cause blood disease, including anemia and leukemia.

**EYES**

Contact may cause moderate irritation.

**SKIN**

Practically non-toxic if absorbed following acute (single) exposure. May cause skin irritation with prolonged or repeated contact. Liquid may be absorbed through the skin in toxic amounts if large areas of skin are exposed repeatedly.

**INGESTION**

The major health threat of ingestion occurs from the danger of aspiration (breathing) of liquid drops into the lungs, particularly from vomiting. Aspiration may result in chemical pneumonia (fluid in the lungs), severe lung damage, respiratory failure and even death.

Ingestion may cause gastrointestinal disturbances, including irritation, nausea, vomiting and diarrhea, and central nervous system (brain) effects similar to alcohol intoxication. In severe cases, tremors, convulsions, loss of consciousness, coma, respiratory arrest, and death may occur.

# AMERADA HESS CORPORATION

## MATERIAL SAFETY DATA SHEET

Natural Gas Condensate (sweet)

MSDS No. 15017

### **INHALATION**

Excessive exposure may cause irritation to the nose, throat, lungs and respiratory tract. Central nervous system (brain) effects may include headache, dizziness, loss of balance and coordination, unconsciousness, coma, respiratory failure, and death. Contains carbon dioxide, which can produce rapid breathing, fatigue, muscular incoordination, nausea, and asphyxiation depending on the concentration and duration of exposure.

### **CHRONIC and CARCINOGENICITY**

Contains benzene, a regulated human carcinogen. Benzene has the potential to cause anemia and other blood diseases, including leukemia, after repeated and prolonged exposure.

### **MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE**

Irritation from skin exposure may aggravate existing open wounds, skin disorders, and dermatitis (rash). Chronic respiratory disease, liver or kidney dysfunction, or pre-existing central nervous system disorders may be aggravated by exposure.

## **4. FIRST AID MEASURES (rev. Aug-98; Tox-98)**

### **EYES**

In case of contact with eyes, immediately flush with clean, low-pressure water for at least 15 min. Hold eyelids open to ensure adequate flushing. Seek medical attention.

### **SKIN**

Remove contaminated clothing. Wash contaminated areas thoroughly with soap and water or waterless hand cleanser. Obtain medical attention if irritation or redness develops.

### **INGESTION**

DO NOT INDUCE VOMITING. Do not give liquids. Obtain immediate medical attention. If spontaneous vomiting occurs, lean victim forward to reduce the risk of aspiration. Small amounts of material which enter the mouth should be rinsed out until the taste is dissipated.

If spontaneous vomiting occurs, lean victim forward to reduce the risk of aspiration. Seek medical attention. Monitor for breathing difficulty.

### **INHALATION**

Remove person to fresh air. If person is not breathing, ensure an open airway and provide artificial respiration. If necessary, provide additional oxygen once breathing is restored if trained to do so. Seek medical attention immediately.

## **5. FIRE FIGHTING MEASURES (rev. Apr-96)**

### **FLAMMABLE PROPERTIES:**

FLASH POINT: AP -40 °F ( -40 °C) TCC

AUTOIGNITION TEMPERATURE: AP 480 °F ( 250 °C)

OSHA/NFPA FLAMMABILITY CLASS: 1A (flammable liquid)

LOWER EXPLOSIVE LIMIT (%): N/D [NFPA gasoline 1.4%]

UPPER EXPLOSIVE LIMIT (%): N/D [NFPA gasoline 7.6%]

### **FIRE AND EXPLOSION HAZARDS**

Vapors may be ignited rapidly when exposed to heat, spark, open flame or other source of ignition. Flowing product may be ignited by self-generated static electricity. When mixed with air and exposed to an ignition source, flammable vapors can burn in the open or explode in confined spaces. Being heavier than air, vapors may travel long distances to an ignition source and flash back. Runoff to sewer may cause fire or explosion hazard.

### **EXTINGUISHING MEDIA**

SMALL FIRES: Any extinguisher suitable for Class B fires, dry chemical, CO2, water spray, fire fighting foam, or Halon.

# AMERADA HESS CORPORATION

## MATERIAL SAFETY DATA SHEET

**Natural Gas Condensate (sweet)**

**MSDS No. 15017**

**LARGE FIRES:** Water spray, fog or fire fighting foam. Water may be ineffective for fighting the fire, but may be used to cool fire-exposed containers.

### **FIRE FIGHTING INSTRUCTIONS**

Small fires in the incipient (beginning) stage may typically be extinguished using handheld portable fire extinguishers and other fire fighting equipment.

Firefighting activities that may result in potential exposure to high heat, smoke or toxic by-products of combustion should require NIOSH/MSHA- approved pressure-demand self-contained breathing apparatus with full facepiece and full protective clothing.

Isolate area around container involved in fire. Cool tanks, shells, and containers exposed to fire and excessive heat with water. For massive fires the use of unmanned hose holders or monitor nozzles may be advantageous to further minimize personnel exposure. Major fires may require withdrawal, allowing the tank to burn. Large storage tank fires typically require specially trained personnel and equipment to extinguish the fire, often including the need for properly applied fire fighting foam.

See Section 16 for the NFPA 704 Hazard Rating.

### **6. ACCIDENTAL RELEASE MEASURES (rev. Aug-98)**

**ACTIVATE FACILITY SPILL CONTINGENCY or EMERGENCY PLAN.**

Evacuate nonessential personnel and remove or secure all ignition sources. Consider wind direction; stay upwind and uphill, if possible. Evaluate the direction of product travel, diking, sewers, etc. to confirm spill areas. Product may release substantial amounts of flammable vapors and gases (e.g., methane, ethane, and propane), at or below ambient temperature depending on source and process conditions and pressure.

Carefully contain and stop the source of the spill, if safe to do so. Protect bodies of water by diking, absorbents, or absorbent boom, if possible. Do not flush down sewer or drainage systems, unless system is designed and permitted to handle such material. The use of fire fighting foam may be useful in certain situations to reduce vapors. The proper use of water spray may effectively disperse product vapors or the liquid itself, preventing contact with ignition sources or areas/equipment that require protection - do not discharge solid water stream patterns into the liquid resulting in splashing.

Take up with sand or other oil absorbing materials. Carefully shovel, scoop or sweep up into a waste container for reclamation or disposal. Response and clean-up crews must be properly trained and must utilize proper protective equipment (see Section 8).

### **7. HANDLING and STORAGE (rev. Aug-98)**

#### **HANDLING PRECAUTIONS**

Handle as a flammable liquid. Keep away from heat, sparks, and open flame! Electrical equipment should be approved for classified area. Bond and ground containers during product transfer to reduce the possibility of static-initiated fire or explosion.

#### **STORAGE PRECAUTIONS**

Keep away from flame, sparks, excessive temperatures and open flame. Use approved vented containers. Keep containers closed and clearly labeled. Empty product containers or vessels may contain explosive vapors. Do not pressurize, cut, heat, weld or expose such containers to sources of ignition.

Store in a well-ventilated area. This storage area should comply with NFPA 30 "Flammable and Combustible Liquid Code". Avoid storage near incompatible materials. The cleaning of tanks previously containing this product should follow API Recommended Practice (RP) 2013 "Cleaning Mobile Tanks In Flammable and Combustible Liquid Service" and API RP 2015 "Cleaning Petroleum Storage Tanks".



# AMERADA HESS CORPORATION

## MATERIAL SAFETY DATA SHEET

Natural Gas Condensate (sweet)

MSDS No. 15017

### **Naturally Occurring Radioactive Materials (NORM):**

Industry experience indicates that natural gas contains small amounts of radon, a naturally-occurring radioactive gas. The solid decay products of radon, called radon daughters, can accumulate inside production and process equipment handling natural gas liquids. Scales, deposits, and sludges from this equipment may have a significant accumulation of this NORM.

Gamma radiation may be detected above background external to equipment contaminated with this type of NORM. Such equipment should be assessed for external gamma radiation; access around the equipment may need to be restricted in accordance with OSHA 29 CFR 1910.96 during operation. Regardless of external gamma radiation levels, this equipment should also be assumed to be internally contaminated with long half-life decay products that emit alpha radiation, which is a radiation hazard if inhaled or ingested. Unless measurements indicate otherwise, steps should be taken to minimize skin and inhalation exposure to NORM dusts/mists by wearing personal protective clothing [such as disposable Tyvek® (DuPont)], utilizing respiratory protection (minimum of HEPA filter), and practicing good personal hygiene. Please refer to API Bulletin E2, "Bulletin on Management of Naturally Occurring Radioactive Materials in Oil and Gas Production," April 1, 1992, for additional information on managing NORM.

### **WORK/HYGIENIC PRACTICES**

Emergency eye wash capability should be available in near proximity to operations presenting a potential splash exposure. Use good personal hygiene practices. Avoid repeated and/or prolonged skin exposure. Wash hands before eating, drinking, smoking, or using toilet facilities. Do not use as a cleaning solvent on the skin. Do not use solvents or harsh abrasive skin cleaners for washing this product from exposed skin areas. Waterless hand cleaners are effective. Promptly remove contaminated clothing and launder before reuse. Use care when laundering to prevent the formation of flammable vapors which could ignite via washer or dryer. Consider the need to discard contaminated leather shoes and gloves.

## **8. EXPOSURE CONTROLS and PERSONAL PROTECTION (rev. Aug-98)**

### **ENGINEERING CONTROLS**

Use adequate ventilation to keep vapor concentrations of this product below occupational exposure and flammability limits, particularly in confined spaces.

### **EYE/FACE PROTECTION**

Safety glasses or goggles are recommended where there is a possibility of splashing or spraying.

### **SKIN PROTECTION**

Gloves constructed of nitrile or neoprene are recommended. Chemical protective clothing such as of E.I. DuPont Tyvek-Saranex 23®, Tychem®, Barricade® or equivalent recommended based on degree of exposure. Note: The resistance of specific material may vary from product to product as well as with degree of exposure. Consult manufacturer specifications for further information.

### **RESPIRATORY PROTECTION**

A NIOSH -approved air-purifying respirator with organic vapor cartridges or canister may be permissible under certain circumstances where airborne concentrations are or may be expected to exceed exposure limits or for odor or irritation. Protection provided by air-purifying respirators is limited. Refer to OSHA 29 CFR 1910.134, ANSI Z88.2-1992, NIOSH Respirator Decision Logic, and the manufacturer for additional guidance on respiratory protection selection.

Use a positive pressure, air-supplied respirator if there is a potential for uncontrolled release, exposure levels are not known, in oxygen-deficient atmospheres, or any other circumstance where an air-purifying respirator may not provide adequate protection.

## **9. PHYSICAL and CHEMICAL PROPERTIES (rev. Apr-96)**

### **APPEARANCE**

A colorless to straw-yellow, water-like liquid

# AMERADA HESS CORPORATION

## MATERIAL SAFETY DATA SHEET

**Natural Gas Condensate (sweet)**

**MSDS No. 15017**

### ODOR

Characteristic petroleum odor.

### BASIC PHYSICAL PROPERTIES (does not include carbon dioxide CO<sub>2</sub>)

BOILING RANGE: 85 to 437 °F (39 to 200 °C)

VAPOR PRESSURE: ~110 psia @ 100 °F

VAPOR DENSITY (air = 1): > 1

SPECIFIC GRAVITY (H<sub>2</sub>O = 1): AP 0.62 - 0.76

PERCENT VOLATILES: essentially 100 %

EVAPORATION RATE: high

SOLUBILITY (H<sub>2</sub>O): negligible

### **10. STABILITY and REACTIVITY** (rev. Apr-96)

**STABILITY:** Stable. Hazardous polymerization will not occur.

### **CONDITIONS TO AVOID**

Avoid high temperatures, open flames, sparks, welding, smoking and other ignition sources.

### **INCOMPATIBLE MATERIALS**

Keep away from strong oxidizers.

### **HAZARDOUS DECOMPOSITION PRODUCTS**

Carbon monoxide, carbon dioxide and non-combusted hydrocarbons (smoke).

### **11. TOXICOLOGICAL PROPERTIES** (rev. Aug-98; Tox-98)

#### **CHRONIC EFFECTS AND CARCINOGENICITY**

Carcinogenic: IARC: No NTP: No OSHA: No ACGIH: No

Exposure to light hydrocarbons in the same boiling range as this product have been associated in animal studies with effects to the central nervous system, peripheral nervous system, liver, and kidneys. The significance of these animal models to predict similar human response is uncertain. Observing good work practices and personal hygiene procedures (Sections 7 and 8) can minimize potential risks to humans.

Product may contain benzene. Human health studies indicate that prolonged and/or repeated overexposure to benzene may cause damage to the blood forming system (particularly bone marrow), and serious blood disorders, such as aplastic anemia and leukemia. Benzene is listed by the NTP, IARC, OSHA and ACGIH as carcinogenic in humans.

### **12. ECOLOGICAL INFORMATION** (rev. Aug-98)

Keep out of sewers, drainage areas, and waterways. Report spills and releases, as applicable, under Federal and State regulations

### **13. DISPOSAL CONSIDERATIONS** (rev. Aug-98)

Consult federal, state and local waste regulations to determine appropriate disposal options.

### **14. TRANSPORTATION INFORMATION** (rev. Apr-96)

PROPER SHIPPING NAME:	Petroleum distillates, n.o.s. or petroleum products, n.o.s. (condensate)	Alternative classification: Hydrocarbons, Liquid n.o.s. (condensate)
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HAZARD CLASS:	3	3
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DOT IDENTIFICATION NUMBER:	UN 1268	UN 3295
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DOT SHIPPING LABEL:	Flammable Liquid	Flammable Liquid
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Dependent on the product's properties, the shipper may also elect to classify as Gasoline UN1203 or Petroleum Crude Oil UN1267 - reference 49 CFR 172.101 for further description (e.g., packing group determination).

# AMERADA HESS CORPORATION

## MATERIAL SAFETY DATA SHEET

Natural Gas Condensate (sweet)

MSDS No. 15017

### 15. REGULATORY INFORMATION (rev. Jun-97)

#### U.S. FEDERAL, STATE, and LOCAL REGULATORY INFORMATION

Any spill or uncontrolled release of this product, including any substantial threat of release, may be subject to federal, state and/or local reporting requirements. This product and/or its constituents may also be subject to other regulations at the state and/or local level. Consult those regulations applicable to your facility/operation.

#### CLEAN WATER ACT (OIL SPILLS)

Any spill or release of this product to "navigable waters" (essentially any surface water, including certain wetlands) or adjoining shorelines sufficient to cause a visible sheen or deposit of a sludge or emulsion must be reported immediately to the National Response Center (1-800-424-8802) or, if not practical, the U.S. Coast Guard with follow-up to the National Response Center, as required by U.S. Federal Law. Also contact appropriate state and local regulatory agencies as required.

#### CERCLA SECTION 103 and SARA SECTION 304 (RELEASE TO THE ENVIRONMENT)

The CERCLA definition of hazardous substances contains a "petroleum exclusion" clause which exempts crude oil, refined, and unrefined petroleum products and any indigenous components of such. However, other federal reporting requirements (e.g., SARA Section 304 as well as the Clean Water Act if the spill occurs on navigable waters) may still apply.

#### SARA SECTION 311/312 - HAZARD CLASSES

<u>ACUTE HEALTH</u>	<u>CHRONIC HEALTH</u>	<u>FIRE</u>	<u>SUDDEN RELEASE OF PRESSURE</u>	<u>REACTIVE</u>
X	X	X	--	--

#### SARA SECTION 313 - SUPPLIER NOTIFICATION

This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act (EPCRA) of 1986 and of 40 CFR 372:

INGREDIENT NAME	CONCENTRATION PERCENT BY WEIGHT
Benzene	CAS NUMBER: 71-43-2 < 0.1 to 2

#### CANADIAN REGULATORY INFORMATION (WHMIS)

Class B Division 2 (Flammable Liquid)  
Class D Division 2 Subdivision A (Very toxic by other means)  
Class D Division 1 Subdivision A (Very toxic acute)  
Class D Division 2 Subdivision B (Toxic by other means)

### 16. OTHER INFORMATION (rev. Aug-98)

<u>NFPA® HAZARD RATING</u>	HEALTH:	1	Slight
	FIRE:	4	High
	REACTIVITY:	0	Negligible

<u>HMIS® HAZARD RATING</u>	HEALTH:	1*	Slight
	FIRE:	4	Severe
	REACTIVITY:	0	Minimal
			* CHRONIC

SUPERSEDES MSDS DATED: 06/17/97

#### ABBREVIATIONS:

AP = Approximately      < = Less than      > = Greater than  
N/A = Not Applicable      N/D = Not Determined      ppm = parts per million

# AMERADA HESS CORPORATION

## MATERIAL SAFETY DATA SHEET

Natural Gas Condensate (sweet)

MSDS No. 15017

### ACRONYMS:

ACGIH	American Conference of Governmental Industrial Hygienists	NTP	National Toxicology Program
AIHA	American Industrial Hygiene Association	OPA	Oil Pollution Act of 1990
ANSI	American National Standards Institute (212) 642-4900	OSHA	U.S. Occupational Safety & Health Administration
API	American Petroleum Institute (202) 682-8000	PEL	Permissible Exposure Limit (OSHA)
CERCLA	Comprehensive Emergency Response, Compensation, and Liability Act	RCRA	Resource Conservation and Recovery Act
DOT	U.S. Department of Transportation [General Info: (800)467-4922]	REL	Recommended Exposure Limit (NIOSH)
EPA	U.S. Environmental Protection Agency	SARA	Superfund Amendments and Reauthorization Act of 1986 Title III
HMIS	Hazardous Materials Information System	SCBA	Self-Contained Breathing Apparatus
IARC	International Agency For Research On Cancer	SPCC	Spill Prevention, Control, and Countermeasures
MSHA	Mine Safety and Health Administration	STEL	Short-Term Exposure Limit (generally 15 minutes)
NFPA	National Fire Protection Association (617) 770-3000	TLV	Threshold Limit Value (ACGIH)
NIOSH	National Institute of Occupational Safety and Health	TSCA	Toxic Substances Control Act
NOIC	Notice of Intended Change (proposed change to ACGIH TLV)	TWA	Time Weighted Average (8 hr.)
		WEEL	Workplace Environmental Exposure Level (AIHA)
		WHMIS	Canadian Workplace Hazardous Materials Information System

### **DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES**

Information presented herein has been compiled from sources considered to be dependable, and is accurate and reliable to the best of our knowledge and belief, but is not guaranteed to be so. Since conditions of use are beyond our control, we make no warranties, expressed or implied, except those that may be contained in our written contract of sale or acknowledgment.

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. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material, even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in their use of the material.