



## MATERIAL SAFETY DATA SHEET

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# Natural Gas Condensate, Petroleum (Sour)

**MSDS Number:** OKE009

**Issue Date:** 8/00

**Revision:** 7/09

### CHEMICAL PRODUCT AND COMPANY IDENTIFICATION - SECTION 1

**Company Identification:** ONEOK, Inc.  
100 West Fifth Street  
Tulsa, OK 74103

#### FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT:

**Call Chemtrec:** (800) 424-9300

**For additional non-emergency information, call:** (888) 417-6275

**Product Name:** Natural Gas Condensate,  
Petroleum (Sour)

**Synonym(s):** Gas drip (Sour), field  
liquids (Sour), field condensate (Sour)

**CAS Number:** 64741-47-5

**Chemical Formula:** Mixture

### HAZARDS IDENTIFICATION - SECTION 2

Clear colorless liquid, with an odor similar to gasoline and rotten egg.

Extremely flammable, can be ignited by heat, spark or flame. May release explosive vapors that can travel, be ignited at remote locations and flash back.

This material is classified as hazardous under OSHA regulations.

The following information summarizes human experience and results of scientific investigations reviewed by health professionals for hazard evaluation of and development of Precautionary Measures and Occupational Control Procedures recommended in this document.

**Primary Route of Entry:** Dermal contact and inhalation.

**Medical Conditions Which Might be Aggravated:** Skin, eye and respiratory disorders.

#### **Acute Exposure Effects:**

- 1. Skin:** Repeated or prolonged exposure may cause irritation and/or defat skin.
- 2. Eyes:** Contact may cause mild to moderate irritation.
- 3. Inhalation:** Excessive exposure may cause central nervous system effects, dizziness, loss of balance/coordination, unconsciousness, coma, respiratory failure and death. Benzene can cause blood and bone marrow disorders such as cancer and leukemia. Hydrogen sulfide is toxic by inhalation.  
At up to 100 ppm, effects will be rotten-egg smell, burning eyes and respiratory tract irritation.

## HAZARDS IDENTIFICATION - SECTION 2 continued

If prolonged exposure up to 100 ppm, effects will be loss of smell, headache, dizziness and coughing.

Exposure from 100 to 300 ppm, in addition to above will be drowsiness, severe eye and throat irritation and possible pulmonary edema.

Exposures up to 600 ppm will cause loss of reasoning/balance and eventual unconsciousness.

**4. Ingestion:** Harmful or fatal if swallowed. Pulmonary aspiration hazard if swallowed and vomiting occurs.

## COMPOSITION/INFORMATION ON INGREDIENTS - SECTION 3

<u>Chemical Name</u>	<u>CAS Number</u>	<u>% By Weight</u>
Hydrocarbons	64741-47-5	70-99
n-Hexane	110-54-3	5-25
Toluene	108-88-3	1-15
Xylene	1330-20-7	1-12
Benzene	71-43-2	1-2
Hydrogen Sulfide	7783-06-4	1

**Note:** These analytical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specifications for the product.

## FIRST AID MEASURES - SECTION 4

**Skin:** Wash skin with plenty of soap and water until no odor remains. If redness or swelling develops, obtain medical attention. Immediately remove soaked clothing. Wash clothing before reuse.

**Eyes:** Flush eyes with plenty of water for at least 15 minutes. Get medical attention if eye irritation persists.

**Inhalation:** If irritation, headache, nausea, or drowsiness occurs, remove to fresh air. Get medical attention if breathing becomes difficult or respiratory irritation persists.

**Ingestion:** Do not induce vomiting! Do not give liquids! Obtain immediate medical assistance.

## FIRE FIGHTING MEASURES - SECTION 5

**Flash Point:** -40° F (-4.4° C)

**Method:** PMCC

**Auto ignition Temperature:** 500° F (260° C)

**Method:** N/A

**Combustibility:** Not Determined

**Method:** Not Determined

**Flammable Limits in Air, % by Volume:** LEL: 0.4% UEL: 11%

**Extinguishing Media:** Use dry chemical, foam or carbon dioxide to extinguish flames.

**Special Fire Fighting Procedures:** Firefighters should wear proper protective equipment and self-contained breathing apparatus. Products of combustion may contain carbon monoxide, carbon dioxide, or other toxic vapors. Do not enter enclosed area or confined space without proper protective equipment including respiratory protection.

**Unusual Fire and Explosive Hazards:** Extremely flammable, can be ignited by heat, spark, or flame. Do not expose to heat, sparks, flame, static, or other sources of ignition. When handling, use non-sparking tools, ground and bond all containers. Readily forms explosive air-vapor mixtures. May release explosive vapors that can travel, be ignited at remote locations, and flash back. Containers may explode in fire.

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## ACCIDENTAL RELEASE MEASURES - SECTION 6

Material is heavier than air and can accumulate in low-lying areas. Eliminate all ignition sources including internal combustion engines and power tools. Ventilate area. Keep people away. Stay upwind and warn of possible downwind explosion hazard. Avoid breathing vapor. Avoid contact with eyes, skin, or clothing. Wear respiratory protection and other personal protective equipment as appropriate for the potential exposure hazards.

## HANDLING AND STORAGE - SECTION 7

Use spark-proof tools. Material may be at elevated temperatures and/or pressures. Exercise care when opening bleeders and sampling ports. Eyewash and safety shower should be available nearby when this product is handled or used. Ground and bond shipping container, transfer line, and receiving container. Keep away from heat, sparks, flame, and other sources of ignition. Outside storage is recommended.

## EXPOSURE CONTROLS/PERSONAL PROTECTION - SECTION 8

<u>Chemical Name</u>	<u>OSHA PEL (ppm)</u>	<u>ACGIH TLV (ppm)</u>	<u>Other (ppm)</u>
Hydrocarbons	None	None	None
n-Hexane	500	50	1100 IDLH
Toluene	200, Ceiling 300	100, STEL 150	500 IDLH
Xylene	100	100, STEL 150	900 IDLH
Benzene	1, STEL 5	0.1, STEL 1	500 IDLH
Hydrogen Sulfide	Ceiling 20	Ceiling 10	100 IDLH

**Eye Protection:** Wear chemical type goggles or face shield.

**Skin Protection:** Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

**Respiratory Protection:** Air supplied respirators should always be worn when airborne concentrations of the contaminant are known.

**Ventilation:** Use explosion-proof equipment to maintain adequate ventilation to meet occupational exposure limits, prevent accumulation of explosive air-gas mixtures, and avoid significant oxygen displacement.

## PHYSICAL AND CHEMICAL PROPERTIES - SECTION 9

**Appearance:** Clear colorless liquid

**Odor:** Similar to Gasoline with a rotten egg odor

**Boiling Point:** -20° to 600° F (-29° to 316° C)

**Vapor Density:** 3.4 (Air = 1)

**Viscosity:** Not Determined

**Specific Gravity:** 0.5 to 0.75 (Water = 1)

**Flash Point:** -40° F (-4.4° C)

**Auto ignition Temperature:** 500° F (260 °C)

**Flammable Limits in Air, % by Volume:** LEL: 0.4% UEL: 11%

**Solubility in Water (wt. %):** No

**Solubility in Other Solvents:** Hydrocarbons

**Note:** These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specifications for the product.

## STABILITY AND REACTIVITY - SECTION 10

**Stability:** Stable under normal conditions.

**Incompatibility:** May react with oxidizers.

**Hazardous Decomposition Products:** Combustion may produce carbon monoxide, carbon dioxide and water vapor.

**Hazardous Polymerization:** Polymerization will not occur.

## TOXICOLOGICAL INFORMATION - SECTION 11

**Toxicity:** skin-rat; LD<sub>50</sub>: 4500 mg/kg (Slightly toxic)

Inhalation-rat; LC<sub>50</sub>: 6,700 ppm (Very low toxicity)

Eye – rabbit; ALD: 4,320 mg/kg (Moderately toxic)

**Teratogenicity:** Not established

**Reproductive Toxicity:** Not established

**Mutagenicity:** Not established

**Synergistic Products:** Not established

**Sensitization to Product:** Not established

**Carcinogenicity:** Contains more than 0.1% by weight of a material listed as a potential carcinogen:

**NTP**  
No

**IARC**  
Yes

**OSHA**  
No

**Signs and Symptoms of Overexposure:** Pain, tears, swelling, redness and blurred vision in the eyes, dizziness, headache, loss of appetite, weakness and loss of coordination.

## ECOLOGICAL INFORMATION - SECTION 12

No data is available on the adverse effects of this material on the environment. Neither COD nor BOD data are available.

## DISPOSAL CONSIDERATIONS - SECTION 13

Dispose of container and unused contents in accordance with federal, state and local requirements.

## TRANSPORT INFORMATION - SECTION 14

### **DOT**

**Proper Shipping Name:** Hydrocarbons, liquid, n.o.s.

**Hazard Class/I.D. No./Packing Group:** 3/UN 3295/I or II

**Label:** Flammable liquid, Poison

### **I.M.O.**

**Proper Shipping Name:** Hydrocarbons, liquid, n.o.s.

**Hazard Class/I.D. No./Packing Group:** 3/UN 3295/I or II

**Label:** Flammable liquid, Poison

### **I.C.A.O./I.A.T.A.**

**Proper Shipping Name:** Hydrocarbons, liquid, n.o.s.

**Hazard Class/I.D. No./Packing Group:** 3/UN 3295/I or II

**Label:** Flammable liquid, Poison

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## REGULATORY INFORMATION - SECTION 15

**TSCA Inventory:** Yes

**Reportable Quantity (RQ) Under US EPA CERCLA Regulations:** Film or sheen upon or discoloration of any water surface.

**SARA Hazard Notification Hazard Categories Under Criteria of SARA Title III Rules (40 CFR Part 370):** No

**Section 313 Toxic Chemical(s):** Not listed

**Hazardous Chemical(s) Under OSHA Hazard Communication Standard:** Yes

## OTHER INFORMATION - SECTION 16

### Hazard Ratings:

#### NFPA

Health -- 2

Fire -- 3

Reactivity -- 0

Specific Hazard -- N/A

#### HMIS

Health -- 2 (Chronic)

Flammability -- 3

Reactivity -- 0

PPE -- Depends on conditions

H <sub>2</sub> S TOXICITY CHART			
CONCENTRATION			PHYSICAL EFFECTS
Percent	Parts per Million	Grains per 100 scf	
0.001	10	0.63	Possible eye irritation
0.002	20	1.26	OSHA Ceiling level; safe for 8 hour exposure
0.005	50	3.14	OSHA Peak level; exposure to concentrations between Ceiling and Peak level acceptable only for a 10 minute period per 8-hours
0.01	100	6.29	NIOSH's IDLH level (Immediately Dangerous to Life or Health); coughing, eye irritation, loss of sense of smell in 3-15 minutes
0.02	200	12.58	Significant eye & respiratory irritation
0.05	500	31.45	Dizziness; breathing ceases within a few minutes
0.07	700	44.02	Breathing ceases; death will result if not rescued quickly
0.10	1,000	62.89	Death
1	10,000	628.93	

To the best of our knowledge, the information contained herein is accurate. However, neither ONEOK, Inc. nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.