



MATERIAL SAFETY DATA SHEET

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Crude Oil

MSDS Number: HP012

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CHEMICAL PRODUCT AND COMPANY IDENTIFICATION - SECTION 1

Company Identification: Hiland Crude
302 N. Independence, Suite 100
Enid, OK 73702

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

In the continental U.S., call: Daytime: (580) 242-6040

After Hours: (800) 495-0653

For additional non-emergency information, call: (580) 616-2024

Product Name: Crude Oil

CAS Number: 8002-05-9

Synonym(s): Crude Petroleum

Chemical Formula: Mixture

COMPOSITION/ INFORMATION ON INGREDIENTS - SECTION 2

<u>Chemical Name</u>	<u>OSHA PEL</u> <u>(ppm)</u>	<u>ACGIH TLV</u> <u>(ppm)</u>	<u>Other (ppm)</u>	<u>CAS</u> <u>Number</u>	<u>% By</u> <u>Weight</u>
Petroleum Crude Oil	500 ppm	350 mg/m ³	1100 ppm IDLH	8002-05-9	95 - 100
Benzene	10 ppm	0.5 ppm	2.5 STEL	71-43-2	0 - 2

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.

HEALTH EFFECTS SUMMARY - SECTION 3

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 ingestion.

Medical Conditions Which Might be Aggravated: Preexisting skin, eye and respiratory disorders may be aggravated by exposure.

Acute Exposure Effects:

1. **Skin:** Prolonged or repeated liquid contact can cause dermatitis, folliculitis or oil acne.
2. **Eyes:** Irritation.
3. **Inhalation:** Irritation
4. **Ingestion:** May be toxic.

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EMERGENCY AND FIRST AID PROCEDURES - SECTION 4

Skin: Remove contaminated clothing. Wash with soap and large amounts of water. If irritation develops, obtain medical attention.

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

Inhalation: Move to fresh air. Provide artificial respiration if not breathing. 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 PROTECTION INFORMATION - SECTION 5

Flash Point: 20 - 100° F

Auto ignition Temperature: Not Determined.

Combustibility: Not Determined

Flammable Limits in Air, % by Volume: LEL: Not determined UEL: Not determined

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

Special Fire Fighting Procedures: Avoid using water streams. Firefighters should wear proper protective equipment and self-contained breathing apparatus.

Unusual Fire and Explosive Hazards: Can be ignited by heat, spark, or flame. Do not expose to heat, sparks, flame, static, or other sources of ignition.

ACCIDENTAL RELEASE MEASURES - SECTION 6

Keep public away. Isolate and evacuate area. Shut off source if safe to do so. Notify appropriate local, state and federal agencies. Protect bodies of water.

HANDLING AND STORAGE PROCEDURES - SECTION 7

Handle as a flammable liquid. Keep away from heat, sparks, flame, and other sources of ignition. Bond and ground containers during product transfer.

OCCUPATIONAL CONTROL PROCEDURES - SECTION 8

Eye Protection: Wear chemical type goggles or face shield.

Skin Protection: Neoprene or nitrile gloves to prevent skin contact.

Respiratory Protection: Not required under normal conditions.

Ventilation: Use explosion-proof equipment to maintain adequate ventilation to meet occupational exposure limits.

PHYSICAL PROPERTIES - SECTION 9

Appearance: Clear colorless liquid

Odor: Similar to Gasoline

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

Vapor Density: 3.4 (Air = 1).

Viscosity: Not Determined

Specific Gravity: .5 to .75 (Water = 1)

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.

PHYSICAL PROPERTIES - SECTION 9

Appearance: Amber, black, brown to greenish black liquid

Odor: Hydrocarbon

Boiling Point: 100° to 1000° F

Vapor Density: 3 to 5 (Air = 1).

Viscosity: Not Determined

Specific Gravity: .7 to .9 (Water = 1)

Solubility in Water (wt. %): No

Solubility in Other Solvents: Not determined

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.

REACTIVITY DATA - SECTION 10

Stability: Stable under normal conditions.

Incompatibility: Strong oxidizers.

Hazardous Decomposition Products: Combustion may produce carbon monoxide, aldehydes, or other hydrocarbons.

Hazardous Polymerization: Polymerization will not occur.

TOXICOLOGY INFORMATION - SECTION 11

Toxicity: Skin – rabbit; >2 ml/kg
Inhalation – No data available
Oral – rat; >5 gm/kg

Teratogenicity: Not established.

Reproductive Toxicity: Not established.

Mutagenicity: Some crude oils have been positive.

Synergistic Products: Not established.

Sensitization to Product: Not established.

Carcinogenicity: Dermal carcinogenicity positive in mice:

NTP
No

IARC
No

OSHA
No

ECOLOGICAL INFORMATION - SECTION 12

Keep out of sewers, drainage and waterways.

DISPOSAL CONSIDERATIONS - SECTION 13

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

TRANSPORTATION INFORMATION - SECTION 14

DOT

Proper Shipping Name: Petroleum Crude Oil

Hazard Class/I.D. No./Packing Group: 3, UN 1267, I

Label: Flammable liquid

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REGULATORY INFORMATION - SECTION 15

TSCA Inventory: No

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): Yes

Section 313 Toxic Chemical(s): Yes - Benzene

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

OTHER INFORMATION - SECTION 16

Hazard Ratings:

NFPA

Fire -- 3

Health -- 1

Reactivity -- 0

Specific Hazard -- N/A.

HMIS

Health -- 1

Flammability -- 3

Reactivity -- 0

PPE -- Neoprene or nitrile gloves

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