

Material Safety Data Sheet



Emergency Medical Telephone (800) 441-3637

CONDENSATE

I. MATERIAL IDENTIFICATION

Name Condensate	CAS Registry Number Mixture; See Section XI
Synonyms Casinghead Gasoline; Natural Gasoline	Product Code 0230
Chemical Family Petroleum Hydrocarbon	Transportation Emergency Phone 1-(800) 424-9300 (Chemtrec)

II. OSHA HAZARD DETERMINATION

The material is hazardous as defined by OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Refer to Section XI of this MSDS for federal and state regulatory information.

Hazardous Ingredients	CAS Registry Number	Concentration
Hydrocarbons (Aromatic & Paraffinic)	Mixture	>99%
Benzene	71-43-2	0.1 - 1 wt. %

Hazardous Physical Properties
Class IA Flammable Liquid - NFPA 30-1987.

III. PHYSICAL DATA

Appearance and Odor Colorless liquid; Gasoline odor	Specific Gravity ($H_2O = 1$) 0.65 - 0.75
Boiling Point/Range 80° - 600°F	% Volatiles (by volume) Variable
Vapor Pressure (mmHg) @ 68°F 200 - 500	Solubility in Water Insoluble
Vapor Density (Air = 1.0) > 1	

IV. REACTIVITY DATA

Stable: X Unstable:

Hazardous Decomposition Materials: Carbon monoxide may be formed from incomplete combustion.

Conditions to Avoid: Oxidizing materials, heat, flame.

Hazardous Polymerization: Will not occur.

V. FIRE AND EXPLOSION HAZARD DATA

LEL: <1 UEL: 8

Flash Point (Method used): As low as -50°F (PMCC)

Autoignition Temperature: As low as 450°F

Handle and store in accordance with NFPA procedure for Class IA Flammable Liquid.

Extinguishing Media: Use dry chemical, CO₂ foam.

Special Fire Fighting Procedures: Water may be ineffective to extinguish, but water should be used to keep fire-exposed containers cool. If a leak or spill has not ignited, use water spray to disperse the vapors and to protect personnel attempting to stop a leak. Water spray may be used to flush spills away from areas of potential ignition.

Unusual Fire and Explosion Hazards: Highly flammable. Products of combustion may contain carbon monoxide, carbon dioxide and other toxic materials. Do not enter enclosed or confined space without proper protective equipment including respiratory protection.

National Fire Protection Association (NFPA) Classification

Health 1 Fire 3 Reactivity 0

HAZARD RATING

Least-0 Slight-1 Moderate-2
High-3 Extreme-4

VI. TRANSPORTATION AND STORAGE

Storage Conditions: Store in accordance with National Fire Protection Association regulations.

Shipping Information:

DOT:

Proper Shipping Name: Gasoline
Hazard Class: Flammable Liquid
UN/NA No.: UN 1203
DOT Label(s): Flammable Liquid
DOT Placard: Flammable

IATA/IMO:

Proper Shipping Name: Natural Gasoline
Hazard Class: 3 (IMO 3.1)
UN No.: UN 1257
IMO/ICAO Label: Flammable Liquid
Packaging Group: II

VII. HEALTH HAZARD INFORMATION

Exposure Limits for Condensate

PEL: None Established

TLV: None Established

Exposure Limits for Petroleum Distillates

PEL: 400 ppm; 1600 mg/m³ TWA

Exposure Limits for Benzene

TLV: 10 ppm, 30 mg/m³

Du Pont AEL: 1 ppm - 8 & 12 Hr. TWA

5 ppm - 15 Min. TWA

PEL: 1 ppm - 8 Hr. TWA

5 ppm - (Short-Term Exposure Limit)

0.5 ppm - Action Level

Primary Routes of Exposure/Entry: Skin, Inhalation.

Signs and Symptoms of Exposure/Medical Conditions Aggravated by Exposure:

A few studies have indicated that workers exposed many years to high concentrations of benzene have a slightly higher incidence of leukemia. Benzene can also be toxic to the blood and blood-forming tissues.

Studies with mice or rats have shown that some petroleum distillates have caused either damage or tumors of the kidneys or tumors of the liver. However, kidney effects were not seen in similar studies involving guinea pigs, dogs or monkeys. Also, the significance of the liver tumors in rodents is highly speculative.

Mouse skin painting studies have shown that petroleum middle distillates (boiling range of 100°-700°F; naphtha, jet fuel, diesel fuel, kerosene, etc.) can cause skin cancer when repeatedly applied and never washed from the animal's skin. The relative significance of this to human health is uncertain since the petroleum distillates were not washed from the skin and resulting skin effects (irritation, cell damage, etc.) may play a role in the tumorigenic response. A few studies have shown that washing the animal's skin with soap and water between treatments greatly reduces the carcinogenic effect of some petroleum oils.

The product contains petroleum hydrocarbons, and as with many petroleum products, it may cause irritation to the eyes, skin and lungs after prolonged or repeated exposure. Overexposure may cause weakness, headache, nausea, confusion, blurred vision, drowsiness and other nervous system effects; greater exposure may cause dizziness, slurred speech, flushed face, unconsciousness or convulsions.

Carcinogenicity:

The following components are listed by NTP, IARC, or OSHA as carcinogens.

	<u>NTP</u>	<u>IARC</u>	<u>OSHA</u>
Benzene	Yes	Category 1	Yes

VIII. EMERGENCY AND FIRST AID INFORMATION

Eyes: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

Skin: In case of contact, immediately wash skin with soap and plenty of water. If irritation develops, consult a physician.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

Ingestion: If swallowed, do not induce vomiting. Give large quantities of water. Never give anything by mouth to an unconscious person. Call a physician.

Notes to Physician: Gastric lavage by qualified medical personnel may be considered, depending on quantity of material ingested.

IX. SPILL, LEAK AND DISPOSAL INFORMATION

In Case of Spill or Leak: All sparks, flames and ignition sources must be restricted from the area. Contain spill immediately in smallest possible area. Recover as much of the product as possible by such methods as vacuuming, followed by recovering residual fluids by using absorbent materials. Nonrecoverable product, contaminated soil, debris and other materials should be placed in proper containers for ultimate disposal. Avoid washing, draining or directing material to storm or sanitary sewers.

NOTE: Review FIRE AND EXPLOSION HAZARDS before proceeding with clean up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean up.

Waste Disposal Method: Recycle as much of the recoverable product as possible. Treatment, storage, transportation and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations.

X. PRECAUTIONARY MEASURES

Respiratory Protection: Select appropriate NIOSH-approved respiratory protection where necessary to maintain exposure below acceptable limits in Section VII. Proper respirator selection should be determined by adequately trained personnel and based on the contaminant(s), the degree of potential exposure and published respirator protection factors.

Ventilation: Storage and use areas should be well ventilated. Use fans or blowers in enclosed areas.

Protective Gloves: Should be worn when any potential exists for skin contact. NBR or neoprene recommended.

Eye Protection: Chemical goggles or face shield for spray/mists or if splashing is probable.

Other Protective Equipment: Coveralls are recommended if splashing is probable; soiled clothing should be removed and laundered.

Safety Precautions: Avoid contact with eyes, skin, or clothing.

XI. REGULATORY INFORMATION

FEDERAL REGULATIONS

CERCLA, 40 CFR 302

Not Applicable

**SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986, TITLE III
SECTIONS 302, 304, 311, 312, 313**

SECTION 302/304 - Extremely Hazardous Substances (40 CFR 355)

The material does not contain extremely hazardous substances at greater than 1.0% concentration; however, it is possible that this material may contain extremely hazardous substances at a lower concentration so that a large enough spill could warrant an Emergency Release Report under Section 304.

SECTION 311/312 - MSDS and Chemical Inventory Reporting Requirements (40 CFR 370)

The material should be reported under the following EPA hazard categories:

☒ Immediate (Acute) Health Hazard	☐ Sudden Release of Pressure
☒ Delayed (Chronic) Health Hazard	☐ Reactive
☒ Fire	☐ Not Applicable

NOTE: See Section II for the concentration of any ingredients classified as hazardous by OSHA.

SECTION 313 - List of Toxic Chemicals (40 CFR 372)

The material contains the following chemical(s) at a level of 1.0% or greater (0.1% for carcinogens) on the list of Toxic Chemicals and is subject to toxic chemical release reporting requirements.

<u>Toxic Chemical</u>	<u>CAS Registry Number</u>	<u>Approx. Concentration (Upper Bound)</u>
Benzene	71-43-2	1%

TOXIC SUBSTANCES CONTROL ACT (TSCA), 40 CFR 710

This material is a mixture as defined by TSCA. The chemical ingredients in this material are in Section 8(b) Chemical Substance Inventory and/or are otherwise in compliance with TSCA. In the case of ingredients obtained from other manufacturers, Conoco relies on the assurance of responsible third parties in providing this statement.

RESOURCE CONSERVATION AND RECOVERY ACT (RCRA), 40 CFR 261, SUBPART C AND D
The material, when discarded or disposed of, is not specifically listed as a hazardous waste in Federal regulations; however, it could be considered hazardous if it meets criteria for being toxic, corrosive, ignitable or reactive according to U.S. EPA definitions (40 CFR 261). Additionally, it could be designated as hazardous according to state regulations. This material could also become a hazardous waste if it is mixed with or comes in contact with a listed hazardous waste. If such contact or mixing occurs, check 40 CFR 261 to determine whether it is a hazardous waste. If it is a hazardous waste, Regulations 40 CFR 262, 263, 264 and 268 may apply.

**FEDERAL WATER POLLUTION CONTROL ACT, CLEAN WATER ACT, 40 CFR 116,
SECTION 311**

The material contains the following ingredient(s) which is considered hazardous if spilled in navigable waters.

<u>Ingredient</u>	<u>Reportable Quantity</u>
Petroleum Hydrocarbon	Film or sheen upon or discoloration of the water surface or adjoining shoreline.

HAZARDOUS MATERIALS TRANSPORTATION REGULATIONS, 49 CFR 171-178
Not Applicable

FOREIGN REGULATION

CANADIAN HAZARDOUS PRODUCTS ACT (WHMIS)
The material is a WHMIS Controlled Product and a Canadian MSDS is available.

STATE REGULATIONS

**CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986
("PROPOSITION 65")**

The material contains ingredient(s) known to the State of California to cause cancer, birth defects or other reproductive harm. Read and follow label directions and use care when handling or using all petroleum products.

Ingredient
Benzene

PENNSYLVANIA WORKER AND COMMUNITY RIGHT TO KNOW ACT

The material contains the following hazardous substances:

Categories: S = Special Hazardous Substance ($\geq 0.01\%$)
H = Hazardous Substance ($\geq 1.0\%$)
E = Environmental Hazard ($\geq 1.0\%$)

<u>Ingredient</u>	<u>CAS Registry Number</u>	<u>Category</u>
Benzene	71-43-2	E,S
Petroleum Distillate	Mixture	H

Nonhazardous ingredient(s) information is withheld as trade secret in accordance with Section 11 of the Act.

MSDS Code: GASC0065

DATE OF LATEST REVISION/REVIEW:
DEPARTMENT RESPONSIBLE FOR MSDS:
PRODUCT INFORMATION CONTACT:

8/89 - Replaces MSDS dated 3/89
Environmental and Occupational Health Services
MSDS Analyst
Conoco Inc.
(713) 293-5550

The above data are based on tests, experience, and other information which Conoco believes reliable and are supplied for informational purposes only. However, some ingredients may have been purchased or obtained from third-party manufacturers. In these instances, Conoco, in good faith relies on information provided by those third parties. Since conditions of use are outside our control, CONOCO DISCLAIMS ANY LIABILITY FOR DAMAGE OR INJURY WHICH RESULTS FROM THE USE OF THE ABOVE DATA. NOTHING CONTAINED HEREIN SHALL CONSTITUTE A GUARANTEE, WARRANTY (INCLUDING WARRANTY OF MERCHANTABILITY) OR REPRESENTATION (INCLUDING FREEDOM FROM PATENT LIABILITY) BY CONOCO WITH RESPECT TO THE DATA, THE MATERIAL DESCRIBED, OR ITS USE FOR ANY SPECIFIC PURPOSE, EVEN IF THAT PURPOSE IS KNOWN TO CONOCO.

