

Material Safety Data Sheet



Emergency Medical Telephone (800) 441-3637

CLARIFIED OIL, SLURRY OIL

I. MATERIAL IDENTIFICATION

Name
Clarified Oil, Slurry Oil

CAS Registry Number
Mixture; Section XI

Synonyms
Catalytic Cracked Clarified Oil;
FCC Clarified; FCC Slurry

Product Code
0585/1072

Chemical Family
Petroleum Hydrocarbons

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
Clarified Oil
(Contains approximately 10%
Polynuclear Aromatic Hydrocarbons)

CAS Registry Number
64741-62-4

Concentration
100%

Hazardous Physical Properties
None

III. PHYSICAL DATA

Appearance and Odor
Black, viscous liquid;
Petroleum odor

Specific Gravity ($H_2O = 1$)
1.03 - 1.12

Distillation Range
>650°F

% Volatiles (by volume)
Nil

Vapor Pressure
Nil

Solubility in Water
Nil

Vapor Density (Air = 1.0)
Not Applicable

Evaporation Rate
Nil

IV. REACTIVITY DATA

Stable: X **Unstable:**

Hazardous Decomposition Materials: Hazardous gases/vapors produced are oxides of carbon, sulfur and nitrogen.

Conditions to Avoid: Strong oxidizing materials, heat, flame.

Hazardous Polymerization: Will not occur.

V. FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method used): >200°F (PMCC)

Handle and store in accordance with NFPA procedure for Class IIIB Combustible Liquid.

Extinguishing Media: Use water spray, dry chemical, CO₂, foam.

Special Fire Fighting Procedures: Use water to keep fire-exposed containers cool. If leak or spill has not ignited, use water spray to disperse the vapors and to provide protection for personnel attempting to stop a leak. Water spray may be used to flush spills away from exposures.

Unusual Fire and Explosion Hazards: Do not heat above flash point. 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 0 Fire 1 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: Not Regulated

IATA/IMO: Not Restricted

VII. HEALTH HAZARD INFORMATION

PEL: Not Established*

Du Pont AEL: Not Established

TLV: Not Established*

Ceiling Value: Not Established

*Refer to Coal Tar Pitch Volatiles; 0.2 mg/m³

Primary Routes of Exposure/Entry: Skin, inhalation.

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

Mouse skin painting studies have shown that petroleum distillates having a boiling point above 700°F, and which are similar to ingredients in this product, caused skin tumors. Rat skin painting 90-day studies have shown a clarified slurry oil to cause liver damage and death at doses as low as 8 mg/kg/day. Cabazole derivatives are thought to be the chemical component causing the liver damage.

The product may cause irritation to eyes, lungs or skin after prolonged or repeated contact. Intermittent or occasional skin contact with the material is not expected to have serious health effects as long as good personal hygiene measures, such as those outlined in this material safety data sheet, are followed.

Listed as Carcinogen or Potential Carcinogen by:

	<u>NTP</u>	<u>IARC</u>	<u>OSHA</u>
Material	No	No	No
Components--			
Polynuclear Aromatic Hydrocarbons, i.e., benzo(a)pyrene	Yes	Yes	No

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: Remove contaminated clothing as soon as possible. Wash exposed skin thoroughly with soap and water. If irritation develops, consult a physician.

If exposed to hot material, immediately cool with cold water. Do not attempt to remove material but continue to cool exposed areas and seek medical assistance immediately.

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. If vomiting begins, lower victim's head in an effort to prevent vomitus from entering lungs.

IX. SPILL, LEAK AND DISPOSAL INFORMATION

In Case of Spill or Leak: Contain spill immediately in smallest possible area. Allow hot oil to cool. Recover as much product as possible by such methods as vacuuming or, if in semisolid state, by mechanical means. Residual fluid should be recovered 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 protective equipment when exposed to oil sprays or mists. 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: Normal ventilation.

Protective Gloves: Should be worn when any potential exists for skin contact. Use insulated gloves where material is being handled hot. NBR or neoprene recommended.

Eye Protection: Chemical goggles when exposed to oil sprays and mists or if splashing is probable. Face shield is recommended where material is handled hot and splashing may occur.

Additional Protection: Coveralls if splashing is probable.

Other Precautions: Skin contact should be minimized. Clean exposed skin with waterless hand cleaner followed by soap and water. Complete protective clothing if material is being handled hot. Launder or discard contaminated clothing. Discard extremely contaminated leather shoes.

XI. REGULATORY INFORMATION

FEDERAL REGULATIONS

CERCLA, 40 CFR 261 and 302

The material contains the following hazardous substance which, when released in quantities equal to or exceeding the Reportable Quantity, triggers National Response Center notification requirements.

Hazardous Substance

Reportable Quantity

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
☒ Delayed (Chronic) Health Hazard
☐ Fire

☐ Sudden Release of Pressure
☐ Reactive
☐ 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.

Toxic Chemical
None

CAS Registry Number

Approx. Concentration
(Upper Bound)

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.

V

**FEDERAL WATER POLLUTION CONTROL ACT, CLEAN WATER ACT, 40 CFR 401.15,
40 CFR 116**

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

Ingredient

Petroleum Hydrocarbon

Reportable Quantity

Film or sheen upon or discoloration of the water surface or adjoining shoreline

HAZARDOUS MATERIALS TRANSPORTATION ACT, 49 CFR 172

The material contains the following ingredient(s) which is considered hazardous if spilled while being transported in commerce.

Ingredient

Not Applicable

Reportable Quantity

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

Polynuclear Aromatic Hydrocarbons, i.e., Benzo(a)pyrene

PENNSYLVANIA WORKER AND COMMUNITY RIGHT TO KNOW ACT

To the best of our knowledge the material is not sold or produced in Pennsylvania. Please notify us at the telephone number noted below if the material results in Pennsylvania commerce.

MSDS Code: RESC0012

DATE OF LATEST REVISION/REVIEW:

DEPARTMENT RESPONSIBLE FOR MSDS:

PRODUCT INFORMATION CONTACT:

2/89 - Replaces MSDS dated 8/88

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.