

December 1, 1960

Mr. Edward K. Daniels
Industrial Hygienist
Medical Department
Mobil Oil Company
612 South Flower Street
Los Angeles 54, California

Dear Ed:

If you desire any additional information after reviewing the attached, please let me know.

I am sorry that I didn't get to see you in Chicago.
I look forward to seeing you in Detroit.

Sincerely yours,

Elmer P. Wheeler
Assistant Director
Medical Department

EPW:dh
Attachments *

cc Mr. Arthur C. Pabst
Socony Mobil Oil Co., Inc.
150 East 42nd Street
New York 17, New York

*Completed forms on Pydraul AC, Pydraul F-9, Pydraul 625, Pydraul 150 and Pydraul A-200; all the Pydraul booklets; "Toxicity of Pydraul Fluids" (our mimeographed sheet); and "Discussion and Interpretation of Pydraul F-9 Toxicity Studies . (also sent to A. C. Pabst).

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TOXICOLOGICAL DATA SHEET FOR SAFE HANDLING OF MATERIALS

1. Product Name: PYDRAUL A-200
2. Manufacturer's Name and Address: Monsanto Chemical Company, 800 North Lindbergh Boulevard, St. Louis 66, Missouri
3. Chemical and Physical Properties:
- a. Specific gravity: 1.4
 - b. Flash Point °F: Fire resistant
200°F.
 - c. Vapor pressure (mm Hg @ 25°C): < 1.0mm @
 - d. Fire Point °F: Fire resistant
 - e. Vapor density (air = 1): > 1
 - f. pH: Neutral
 - g. Auto ignition temperature °F: > 1200°F.
 - Distillation Range:
 - h. ~~XXXXXXXXXXXX~~ 325-375°C.
 - i. Melting point °F: -----
 - j. Explosive limits (% vol. air): -----
 - k. Odor: Slight characteristic
 - l. Susceptibility to spontaneous heating: Not susceptible
 - m. Corrosiveness: Not corrosive
 - n. Stability: Stable
 - o. Reactivity: Non-reactive
 - p. Percentage Composition: CONFIDENTIAL - A phosphate ester base fluid containing chlorinated hydrocarbons

Compound	Percent	Compound	Percent

- q. Does the material decompose violently when exposed to air? Water? Heat? Strong Oxidizer? No.
- r. Products formed from decomposition or fire: CO, CO₂, phenolics, HCl

4. Physiological Properties:

- a. Acute oral toxicity: Rats - approx. LD₅₀ - 10,500 mg/kg

DSW 018778

- b. Local effects upon eyes: In animals - mild irritation. Mild irritant to humans but with pain out of proportion to degree of irritation.
- c. Local effects upon skin: Classed as mild skin irritant. Dissolves natural fats and oils on surface of skin.
- d. Estimate of acute hazard by inhalation: Low degree of hazard due to low volatility at normal temperature. Laboratory animals survived six hours exposure to atmosphere saturated with vapors.
- e. Estimated threshold limit: -----

5. First Aid Treatment:

- a. Skin contact: No serious immediate effect. Wash with soap and water to avoid prolonged and repeated skin exposure.
- b. Eye contact: Flush for at least 15 minutes with water. Get medical attention. Physicians have used 1% pontocaine solution and ophthalmic cortisone acetate solution to relieve smarting and irritation.
- c. Inhalation: See 4.d. above
- d. Ingestion: Induce vomiting and refer to physician

6. Precautions for Normal Use: Avoid repeated, prolonged vapor or mist inhalation. Avoid contact with eyes or prolonged contact with skin.

7. Recommended Protective Equipment: None should be required if Pydraul A-200 is used as recommended.

8. Procedure in Case of Breakage or Leakage: Clean up as with any lubricating oil or hydraulic fluid.

9. Transportation and Storage Requirements: -----

10. Information Furnished By: Mr. Elmer P. Wheeler

Title: Assistant Director, Medical Department

Company: Monsanto Chemical Company

Address: 800 North Lindbergh Boulevard, St. Louis 66, Missouri

Date: December 1, 1960

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