DATA SHEET P TOXICOLOGICAL AND SAFE HANDL INFORMATION

(Please Complete Applicable Sections)

1. Product name, number, synonym: PYDRAUL AC
2. Manufacturer's name: MONSANTO CHEMICAL COMPANY
3. Manufacturer's address: St. Louis, Missouri
4. Procedure in Case of Breakage or Leakage: Clean up as with lubricating oil.
5. Transportation and Storage Requirements: No special requirements.
6. First Aid Treatment:
   a. Skin contact: Wash with soap and water.
   b. Eye contact: Flush with copious quantities of water. Get medical attention. Physicians have used 1% pontocaine solution and ophthalmic ~~XXXXXXXXX~~ cortisone acetate solution to relieve smarting and irritation.
   c. Inhalation: Due to low volatility, inhalation is no hazard.
   d. Antidote in case of swallowing: Induce vomiting and refer to physician.
7. Physiological Properties:
   a. Acute oral toxicity: Rats - LD_{50} approximately 40,000 mg/kg. Rabbits - MLD 3500 to 4500 mg/kg.
   b. Local effects upon eyes: In animals - mild irritant. 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 - similar to paint thinner.
   d. Estimate of acute hazard by inhalation (volatile materials): Low degree of hazard due to low volatility at normal temperature. Laboratory animals survived six hrs. exposure to atmospheres saturated with vapors.

(See National Safety Council recommendations for toxicity evaluations)

   e. Warning Properties (Odor, irritation to eyes, nose, or throat): Mild pleasant odor. Massive exposure to mist, aerosol or vapors irritating to eyes.
   f. Estimated threshold limit value (if not on current list by American Conference of Governmental Industrial Hygienists): ----------
8. Chemical and Physical Properties:
   a. Specific gravity (water = 1) 1.340 to 1.360
   b. Vapor density (air = 1) 11.2
   c. Vapor pressure mm Hg at 25°C 2×10^{-5}
   d. PH Neutralization Nbr. 0.15 max. (PH not determined on fluid)

R-3700-R1

MONS 071293

e. Corrosive action on aircraft materials such as: aluminum; magnesium; plexiglass; rubber; lacquers; enamels; fabrics: Not corrosive. May soften some lacquers, enamels or other synthetic surfaces.

f. Does the material decompose violently when exposed to air? Water? Heat? Strong oxidizers? No.

g. For mixtures give the percentage composition of ingredients:

Compound	Percent
PYDRAUL AC is a proprietary product and we are under obligation not to disclose its composition.	

NOTE: For example, generalizations such as petroleum hydrocarbons, alcohols, ketones, chlorinated hydrocarbons, etc. are not adequate for toxicological evaluation. Proper chemical names must be known.

h. Does the material generate heat through polymerization or condensation? No

9. Precautions for Normal Conditions of Use: Avoid repeated, prolonged inhalation of vapors or mists. Avoid contact with eyes or prolonged contact with skin.

10. Recommended Protective Equipment: None should be required if Pydraul AC is used as recommended.

11. a. Flash point °F: Closed cup Not used; Open cup 470°F; If F.P. changes during evaporation, give data:

b. Explosive limits (% vol. air): Lower Unknown; Upper Unknown

c. Susceptibility to Spontaneous Heating: Yes ____; No X

d. Fire point °F 725°F; Auto ignition temperature °F 1080°F

e. Vapor density 11.2 compared to a value for air of 1.

f. What products might be formed in the event of fire or abnormal temperatures? CO, CO_2, phenolics, HCL.

g. Suitable extinguishing agents: Same as for any fire resistant synthetic material.

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

Title: Assistant Director, Medical Department

Company: MONSANTO CHEMICAL COMPANY

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

Date: January 15, 1963

NOTE: Information in regard to this material's composition will be treated as confidential and used only for the purpose of protecting the health and safety of Boeing employees and the safeguarding of its property. The completed form should be mailed to Industrial Hygiene, Boeing Airplane Company, Seattle 24, Washington. Disregard if previously accomplished.

K-2705-R3

MONS 071294