Gulf Oil Corporation

INDUSTRIAL HYGIENE LABORATORY

P.O. Box 608, San Diego, California 92112

PRODUCT HEALTH AND SAFETY DATA SHEET

1. PRODUCT NAME: Pydraul F 9
2. MANUFACTURER: Monsanto
   ADDRESS 800 N. Lindbergh Blvd St Louis Mo 63166
   EMERGENCY TELEPHONE NO. _____

3. CHEMICAL COMPOSITION: % BY WT. ☐ VOL. ☐
   Confidential
   Phosphate ester based Fluid
   Containing Chlorinated Hydrocarbons

4. CHEMICAL AND PHYSICAL PROPERTIES:
   a. SPECIFIC GRAVITY (WATER=1) 1.280 - 1.295
   b. VAPOR DENSITY (AIR=1) >1
   c. VAPOR PRESSURE (mm Hg.) _____
   d. BOILING POINT (°F) _____
   e. FLASH POINT (STATE METHOD) 430° Min (C.O.C.)
   f. FLAMMABLE LIMITS UEL _____ LEL _____
   g. pH _____
   h. PERCENT VOLATILE BY VOL. _____
   i. EVAPORATION RATE (_____=1) _____
   j. SOLUBILITY IN WATER Very slight
   k. HAZARDOUS POLYMERIZATION ☐ YES ☒ NO
   l. STABLE ☒ YES ☐ NO
   m. SHOCK SENSITIVE ☐ YES ☒ NO
   n. CONDITIONS TO AVOID: _____

5. PHYSIOLOGICAL PROPERTIES:
   a. ACUTE ORAL TOXICITY (LD50 IF AVAILABLE)
      ORAL LD_{50} IN RATS 10,500 MG/KG.
   b. LOCAL EFFECTS UPON EYES MILD - Causes pain out of proportion to degree of irritation
   c. LOCAL EFFECTS UPON SKIN MILD - Solvent Action can defat skin
   d. SENSITIZING EFFECT UPON SKIN None
   e. ABSORPTION THROUGH SKIN MLD (Rabbits) - 2000 - 2800 MG/KG
   f. INHALATION EFFECTS (VAPORS OR DUSTS) Lab animals (rats) survived 6 hr exposure to saturated atmosphere at room temp.

*PLEASE ATTACH ANY ADDITIONAL TOXICITY DATA ON ANIMALS OR HUMANS.

6. HEALTH HAZARD DATA:
   a. TLV(ACGIH) _____ ESTIMATED 1.0 mg/M3
   b. WARNING PROPERTIES (ODOR, IRRITATION, ETC.) _____
   c. FIRST AID TREATMENT:
      SKIN CONTACT Wash with soap & water
      EYE CONTACT [illegible]
      INHALATION _____
      INGESTION (INCLUDE ANTIDOTE) Induce vomiting & [illegible]

7. PROTECTIVE EQUIPMENT AND METHODS:
   NORMAL USAGE REQUIRES:
   a. PERSONNEL PROTECTIVE DEVICES: ☐ NO ☒ YES
      TYPE Gloves & Aprons
   b. SKIN PROTECTION-MATERIAL RATING:
      (E) EXCELLENT (G) GOOD (F) FAIR (P) POOR (NR) NOT RECOMMENDED

NEO-PREME RUBBER	NATURAL RUBBER	POLY-VINYL ALCOHOL	BUTYL RUBBER	POLY-ETHYLENE	POLY-VINYL CHLORIDE

   c. VENTILATION CONTROLS: ☐ NO ☒ YES
      TYPE exhaust to avoid vapor exposure
   d. DECONTAMINATION PROCEDURES: ☐ NO ☒ YES
      TYPE Clean up like petroleum oil
   e. EXTINGUISHING MEDIA: ☒ CO_2 ☒ FOAM ☐ WATER ☐ DRY CHEMICAL OTHER Fog
   f. PRECAUTION FOR STORAGE OR TRANSPORT: ☒ NO ☐ YES TYPE _____

DSW 586431

8. INFORMATION SUPPLIED BY
   NAME Jack T. Grant
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   DATE 29 Jun 1971
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