SPO 452

HAZARDOUS MATERIALS DATA SHEET

LEASE COMPLETE APPLICABLE SECTION

1. PRODUCT NAME, NUMBER, SYNONYM: Pydraul A-200

2. MANUFACTURER'S NAME: Monsanto Company, Organic Chemicals Division

3. MANUFACTURER'S ADDRESS: 800 North Lindbergh Boulevard, St. Louis, Missouri 63166

4. PROCEDURE IN CASE OF BREAKAGE OR LEAKAGE: Product water-insoluble. Soak up excess with rags or floor drying material; flush away and wash with detergent and water(hot if available). (Safety solvents may be used).

5. TRANSPORTATION AND STORAGE REQUIREMENTS: Shipping classification--hydraulic system fluid other than petroleum. Normal industrial procedures and methods satisfactory for handling. Drums stored outdoors should be placed in a horizontal position.

6. 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 pontocaine solution and ophthalmic cortisone eyedrops to relieve smarting and irritation.

C. INHALATION: Low degree of hazard due to low volatility at normal temperature.

D. ANTIDOTE IN CASE OF SWALLOWING: Induce emesis and refer to physician for symptomatic treatment.

7. PHYSIOLOGICAL PROPERTIES:

A. ACUTE ORAL TOXICITY: Oral LD_{50} in rats approximately 10,500 mg/kg

B. LOCAL EFFECTS UPON EYES: In animals, mild irritation. In humans causes mild irritation or inflammation but with pain out of proportion to degree of irritation.

C. LOCAL EFFECTS UPON SKIN: Classed as mild skin irritant. Solvent action may remove natural fats and oils from surface of skin.

D. ESTIMATE OF ACUTE HAZARD BY INHALATION (VOLATILE MATERIALS): Low vapor pressure results in low degree of acute hazard. Laboratory animals survived 6 hours exposure in atmosphere saturated with vapors.

E. WARNING PROPERTIES (ODOR, IRRITATION TO EYES, NOSE OR THROAT): Mild chlorinated hydrocarbon distinctive odor. High concentration irritating to eyes, nose and throat.

F. ESTIMATED THRESHOLD LIMIT VALUE (IF NOT ON CURRENT LIST BY AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS): Not established. Suggest 1 mg/cu meter.

8. CHEMICAL AND PHYSICAL PROPERTIES:

A. SPECIFIC GRAVITY (WATER=1) 1.415 - 1.430 B. VAPOR DENSITY (AIR=1) @ 11-12

C. VAPOR PRESSURE mm Hg AT 25°C. less than 0.1 mm Hg D. pH neutral

E. CORROSIVE ACTION ON COMMON MATERIALS SUCH AS: ALUMINUM, MAGNESIUM, PLEXIGLAS, RUBBER, LACQUERS, ENAMELS, FABRICS: No corrosive action on metals; can soften incompatible elastomers, paints, lacquers, enamels and plastics

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F. DOES THE MATERIAL DECOMPOSE WHEN EXPOSED TO AIR? WATER? HEAT? STRONG OXIDIZERS?

Does not decompose when exposed to air. Can be affected by strong oxidizers

G. FOR MIXTURES GIVE THE PERCENTAGE COMPOSITION OF INGREDIENTS:

COMPOUND	PERCENT
Pydraul A-200 is a proprietary product; formulation details can not be divulged. Pydraul A-200 is a blend of highly stable aromatic chlorinated hydrocarbon plus dye, defoamer, rust inhibitor additives.	

NOTE: GENERALIZATIONS SUCH AS PETROLEUM HYDROCARBONS, ALCOHOL, 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 and prolonged contact with the skin. Avoid inhalation of vapors if fluid is used at elevated temperatures.

10. RECOMMENDED PROTECTIVE EQUIPMENT: None should be required during normal handling at ambient temperatures.

11. A. FLASHPOINT °F: CLOSED CUP ----; OPEN CUP 390°F. min. F.P. CHANGES DURING EVAPORATION GIVE DATA:

B. EXPLOSIVE LIMITS (% VOL. AIR): LOWER ; UPPER

C. SUSCEPTIBILITY TO SPONTANEOUS HEATINGS: YES ; NO Safety fluid--oxidation resistance makes determination meaningless. No

D. FIRE POINT °F Greater than 725°F.; AUTO IGNITION TEMPERATURE °F 1220°F. Min.

E. VAPOR DENSITY Unknown -- not applicable to fire resistant fluids

F. WHAT PRODUCTS MIGHT BE FORMED IN THE EVENT OF FIRE OR ABNORMAL TEMPERATURES? Soot, carbon monoxide, carbon dioxide, phenolics, aldehydes, ketones, HCl vapor, etc.

G. SUITABLE EXTINGUISHING AGENTS: Carbon dioxide or dry foam extinguishing agents.

12. INFORMATION FURNISHED BY: R. Emmet Kelly, M. D.

TITLE: Medical Director

COMPANY: Monsanto Company

ADDRESS: 800 N. Lindbergh Blvd.
St. Louis, Missouri 63166

DATE: August 10, 1970

NOTE: INFORMATION IN REGARD TO A MATERIAL'S COMPOSITION WILL BE TREATED AS CONFIDENTIAL AND USED FOR THE PURPOSE OF PROTECTING THE HEALTH AND SAFETY OF MCDONNELL DOUGLAS CORP. EMPLOYEES AND THE SAFEGUARDING OF ITS PROPERTY. IT WILL ALSO BE USED FOR THE PURPOSE OF COMPLYING WITH LOCAL, PROVINCIAL AND FEDERAL STATUTES AND CODES, AND REQUIREMENTS OF GOVERNMENTAL AGENCIES.

THE COMPLETED FORM SHOULD BE RETURNED TO MATERIALS & PROCESS ENGINEERING DEPT. 255
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