# Monsanto MATERIAL SAFETY DATA

NOTE:
NO REPRESENTATION IS MADE AS TO THE ACCURACY OF THE INFORMATION AND RECOMMENDATIONS HEREIN. SEE PAGE 4 FOR CONDITIONS UNDER WHICH DATA ARE FURNISHED.

MONSANTO PRODUCT NAME

PYDRAUL 68S®the safety hydraulic fluid

MONSANTO COMPANY
800 N. LINDBERGH BLVD.
ST. LOUIS, MO. 63166
EMERGENCY PHONE NO.
(CALL COLLECT)

314-694-1000

## PRODUCT IDENTIFICATION

Chemical Family - organophosphate ester fluid

DOT PROPER SHIPPING NAME - Pydraul 68S
DOT HAZARD CLASS - None
DOT LABEL(S) - None

## WARNING STATEMENTS

CAUTION! This product may be toxic to fish. Prevent entry into the environment through spills, leakage, disposal or other discharge.

## PRECAUTIONARY MEASURES

This product should not contact or in any way contaminate food, animal feed, food or feed products, food or feed chemicals, food or feed packaging materials, pharmaceuticals or any items which may directly or indirectly be ultimately ingested by humans, animals, wildlife or aquatic life. Any such substance contaminated with this product should be destroyed.

## EMERGENCY AND FIRST AID PROCEDURES

This product is a slight skin and eye irritant. In case of skin contact, wash off with soap and water. In case of eye contact, flush with copious amounts of water.

At elevated temperatures, vapors may cause irritation of mucous membranes, headache, and nausea. In case of vapor inhalation at elevated temperature, remove to fresh air.





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## OCCUPATIONAL CONTROL PROCEDURES

Protective Equipment -

Eyes - Chemical goggles
Skin - Gloves impervious to chemicals should be used.

Inhalation - NIOSH/MSHA approved organic respirator if vapors are present because of elevated temperatures.

Ventilation - Local exhaust if fumes are present at elevated temperature.

TLV/TWA - None is established.

## FIRE PROTECTION INFORMATION

IGNITION TEMPERATURE °F * FLASH POINT °F (METHOD) 475 (Cleveland Open Cup)
FLAMMABLE LIMITS *

Extinguish with water, fog, foam or $CO_2$.

*Not applicable.



## PHYSIOLOGICAL EFFECTS SUMMARY:

When Pydraul 68S was administered to rats, the acute oral $LD_{50}$ was found to be greater than 7.94 grams/kilogram. All rabbits receiving a continuous 24-hour dermal application of Pydraul 68S survived the highest dosage tested (7.94 grams/kilogram). Thus, Pydraul 68S is considered to be practically non-toxic by ingestion in single doses and by single dermal applications.

When 0.1 ml. of undiluted Pydraul 68S was placed into the conjunctival sac of the rabbit eye, a slight degree of irritation resulted. The average maximum score, recorded 1 hour after treatment, was 6 on a scale of 110.0. All eyes had regained a normal appearance 24 hours after they were dosed.

A slight degree of irritation resulted when Pydraul 68S was held in continuous 24-hour contact with intact rabbit skin. The average maximum score, recorded 24 hours after treatment, was 2.6 on a scale of 8.0.

ORAL $LD_{50}$ (rats) >7,940 ml/kg "practically non-toxic"

DERMAL $LD_{50}$ (rabbits) >7,940 ml/kg "practically non-toxic"

SKIN IRRITATION Rabbit Mild Irritant PSNA 2.6

EYE IRRITATION Rabbit Slight Irritant PSNA 6.0

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## PHYSICAL DATA

Boiling Point - >500°F
Pour Point - -5°F
Solubility in water - negligible
Specific Gravity - 25/25°C 1.1 average
Vapor Pressure - 200°F 0.2 mmHg
Appearance - Clear to slightly hazy green liquid

## REACTIVITY DATA

MATERIALS TO AVOID - None

HAZARDOUS DECOMPOSITION PRODUCTS - Oxides of phosphorus, $CO_2$, CO, and soot.

HAZARDOUS POLYMERIZATION - Does not occur.

## SPILL, LEAK & DISPOSAL INFORMATION

Absorb spilled and leaked material on clay, sawdust, or other absorbent material, sweep up and dispose of in a secure Class I landfill.

Dispose of this product by incineration or in a secure Class I landfill. Do not rinse or reuse containers. Dispose of containers in a secure Class I landfill.

## ADDITIONAL COMMENTS

Refer to Monsanto Technical Bulletin 16/FP-3 for information on reclaiming Pydraul 68S.

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DATE March 1979 REVISED [X] SUPERCEDES April 1972

FOR ADDITIONAL NON-EMERGENCY INFORMATION, CONTACT:

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