DRAKENFELD DIVISION, IMPERIAL DEPARTMENT

HERCULES INCORPORATED

WASHINGTON, PENNSYLVANIA 15301

HAZARD DATA RECORD

I. PRODUCT DESCRIPTION

A. Commercial Name: Therminol FRO

B. Chemical Composition: Mixture chlorinated biphenyls and chlorinated benzenes

C. Molecular Weight: 200 average

D. Description: Colorless, oily liquid

II. FIRE OR EXPLOSION HAZARD

A. Flash Point: 575° F C.O.C. ASTM D-92

B. Autoignition Temperature: Above 1100° F

C. Flammability Limits: No fire point to 690° F

D. Fire and Explosive Characteristics: Will not support combustion within recommended use temperature--no explosion hazard.

E. Products of Combustion: Product will decompose releasing hydrogen chloride and forming higher boiling polymers.

III. STORAGE PRECAUTIONS

A. Temperature Limitations: None

B. Humidity Limitations: None

C. Containers (type and material): Plain steel.

D. Other Special Requirements: None

MONS 097858

IV. HEALTH HAZARDS

A. Ingestion:

Acute Product considered slightly toxic by oral ingestion.

Long Term

Lethal Dosage LD_{50} in rats 4200 Mg/Kg (3740 - 4700)

B. Inhalation:

Acute Rats exposed to saturated vapor at room temperature survived.

Long Term

Threshold Limits None proposed.

C. Eye Contact Product is moderate irritant to eyes (score of 41.6 out of a possible 110).

D. Skin Contact Product is a moderate skin irritant (with a score of 4.3 out of a possible 8). Skin absorption studies showed ~~an MLD in rabbits of 501 to 795 Mg/Kg. Product classed as~~ moderately toxic by skin absorption.

V. PERSONNEL PROTECTION

A. Eyes Use eye protection.

B. Skin Use skin protection

C. Respiratory System Avoid prolonged or repeated inhalation at elevated temperatures.

D. Hygiene Avoid eye or skin contact.

E. Other

VI. FIRST AID TREATMENT

A. Eyes Flush with copious quantities of fresh water for at least 20 minutes. If irritation persists see a physician.

B. Skin Wash with soap and water.

C. Respiratory System Should be no problem at room temperature. At elevated temperature mechanical exhaust ventilation should be provided.

D. Ingestion Induce emesis. Treat symptomatically.

E. Other

Department and individual in your organization to contact for information in case of medical emergency:

Name Dr. R. E. Kelly

Company Monsanto Company

Dept. Medical Department

Address 800 N. Lindbergh Blvd, St. Louis, Mo. 63166

Telephone:

Business OX 4-2191, Area Code 314

Home

Date filled in by Stanley Shaw

Title Product Specialist

Company Monsanto Company

Date March 25, 1969