Monsanto

FROM (NAME & LOCATION) J. R. Fallon - St. Louis General Office

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SUBJECT THERMINOL FR SYSTEMS -- CONTAINMENT AND DISPOSAL OF LEAKAGE

REFERENCE

TO
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J. Davidson - Los Angeles
G. F. Fague - Detroit
J. A. Heilala - Pittsburgh
R. F. Irwin - Houston
J. S. Pullman - New York
J. J. Roder - Chicago

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D. E. Roush - St. Louis
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We have always emphasized certain factors in Therminol FR systems to minimize or eliminate leakage so that operating personnel are not exposed to hot fluid or vapors.

This emphasis must be reenforced with the user, the OEM's and with the design people. Our objective is the elimination, or containment and collection of leakage from Therminol FR systems.

In addition we must control the disposal of any Therminol FR collected from leaks or from the change out of the fluid in the system.

The following is proposed as a means for eliminating the release of any Therminol FR from a system so that the fluid does not become an environmental containment.

Leakage

Generally there are four sources for leaks in a system

....Fittings -- weld all connections and flange those fittings where accessibility is desired.

....Pump Seals -- encourage use of canned pumps. Mechanical seals are a secondary choice. If they are used then enclose seal or provide drip pan with a drain to a collection sump.

....Seal at the heat using equipment -- stipulate that all drains be directed to a collection sump. Install drip pans at rotary joints.

....Expansion Tank Vent -- stipulate that vent be directed to a cold seal tank, or catch pot or drum to contain vapor condensation and contain light ends.

When a system is under design or Construction...

In reviewing drawings or systems specify check valves at selected points to minimize fluid discharge in the rare case of a rupture at the using equipment or in the heater coil.

Control

The control, collection and disposal of leakage is primarily the users responsibility. We must make him aware of this responsibility and of our desire to work with him.

Disposal of Collected Fluid — Fluid Disposal

If leakage does occur it should be collected and placed in drums. The same procedure should be followed if the user wishes to change out his fluid charge. In a fluid change-out the user may wish to reclaim under our regular policy. Material for disposal should be returned to:

Monsanto Company
W. G. Krummrich Plant
Saget, Illinois
Att: Supervisor, Department 246

Advise your sales correspondent and W. E. Gordon in Distribution that material is being returned for disposal. In this way the proper papers can be prepared and the user invoiced for this disposal service. The charge for this disposal is $.03/lb. The user pays the cost of the drums and the freight.

Leaks

The heat transfer system can generally be considered a closed system. Leakage can be easily controlled, collected and disposed. The user must be made aware of this.

General

The Therminol FR systems are usually the vital part of a process, and the user has decided to protect his investment and his personnel by using a fire resistant fluid.

There is a very strong cooperative atmosphere and working relationship with our Therminol FR users and prospects. They need and want the protection afforded by a fire resistant fluid, they want a leak free system and good labor relations and consequently will design a leak free system -- your customer will appreciate your interest and will know that he has and will continue to have the best possible protection with a fire resistant fluid.

J. R. Fallon

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