COPY

DATE June 17, 1970

JOB

HEAD: How To Keep Your Therminol FR System Leak-Free

COPY: Your Therminol FR heat transfer system operates under ambient pressure conditions. ~~Lack of any~~ ~~Will any pumping pressure to~~ ~~contend with fluid leakage is easy to control~~ ~~Thus fluid leakage is easily controlled~~. Here are some suggestions that will help you control leaks. If leakage has caused an accumulation of fluid please refer to our bulletin entitled "How to dispose of Therminol FR" ~~and dispose of any fluid taken out of your system~~

Check These Sources For Leakage

Generally, there are four sources of leaks in a system:

Fittings. Weld all connections. Flange fittings where accessibility is desired.

Pump Seals. Canned, or sealless, or glandless, pumps are the best protection against leakage. If mechanical seals are used, enclose them or provide a drip pan with a drain to a collection sump.

SEALS CONNECTING ROTATING OR VIBRATING HEAT USERS to the System ~~Rotary joint or~~ ~~User Seals~~. Direct all drains to a collection sump. Install drip pans at rotary joints.

Expansion

Tank Vent. Direct vent to either a cold seal tank, catch pot or drum to contain vapor condensation and light ends.

When your system is under design or construction, specify check valves at selected points. This will minimize fluid discharge in the rare case of a rupture at the using equipment or in the heater coil. ~~and will permit~~ Specify block valves so that repairs and changes can be made without excessive draining.

0408282

Monsanto

TOWOLDMON0031355

WATER_PCB-00015824

COPY

DATE June 17, 1970

JOB

HEAD: How To Dispose Of Therminol FR

COPY: If leakage does occur, collect the fluid and place it in durms. You have two choices. Fluid can be returned for ~~rehabilitation~~ recondition to our fluid recovery ~~unit~~ service center or can be returned for ~~disposal~~ destruction to our fluid disposal center.

If you elect to return the material for disposal ~~Return material for disposal to~~: ~~freight prepaid~~ Ship, fot prepaid to:

Monsanto

W. G. Krummrich Plant

Saget, Illinois

Attn: Supervisor, Department 246

Please advise your Monsanto fluid specialist that material is being returned for disposal so the proper papers can be prepared. The charge for this disposal is $.03/lb. (not including drums and freight costs).

If you elect to return the fluid for rehabilitation ~~Follow the same procedure for change-out of your fluid~~ please forward the drums as outlined in our ~~charge. Or, you may wish to reclaim this fluid under~~ separate bulletin on "How to reclaim fluid." ~~our regular policy.~~

Your investment in a heating system using Therminol FR fire-resistant fluid shows you care about safety; safety for personnel and equipment. The above suggestions are made to help you keep your system leak-free and protect this valuable investment.

If you have any questions about fluid leakage, disposal or reclamation, please contact your Monsanto fluid specialist.

0408283

Monsanto

COPY

DATE June 17, 1970

JOB

HEAD: How To Keep Your Therminol FR System Leak-Free

COPY: Your Therminol FR heat transfer system is a closed system. Thus fluid leakage can be ~~is~~ easily controlled. Here are some suggestions that will help you control leaks and dispose of any fluid taken out of your system.

Jack:
I think this is excellent as is. The only thing I would question is the $.03/lb disposal fee. The question is: how easy are we going to make it for someone to return used fluid. If we are trying to strongly encourage people to return dirty fluid to us, then I think the $.03/lb should be waived. Perhaps I would see it differently if I knew how much it cost us to ~~regen~~ recover or dispose of the dirty fluid.
Jerry

Check These Sources For Leakage

Generally, there are four sources of leaks in a system:

Fittings. Weld all connections. Flange fittings where accessibility is desired.

Pump Seals. Canned pumps are the best protection against leakage. If mechanical seals are used, enclose them or provide a drip pan with a drain to a collection sump.

User Seals. Direct all drains to a collection sump. Install drip pans at rotary joints.

Expansion Tank Vent. Direct vent to either a cold seal tank, catch pot or drum to contain vapor condensation and light ends.

When your system is under design or construction, specify check valves at selected points. This will minimize fluid discharge in the rare case of a rupture at the using equipment or in the heater coil.

0408284

Monsanto
TOWOLDMON0031357
WATER_PCB-00015826

COPY

DATE June 17, 1970

JOB

HEAD: How To Dispose Of Therminol FR

COPY: If leakage does occur, collect the fluid and place it in durms.

Return material for disposal to:

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

Please advise your Monsanto fluid specialist that material is being returned for disposal so the proper papers can be prepared. The charge for this disposal is $.03/lb. (not including drums and freight costs).

Follow the same procedure for change-out of your fluid charge. Or, you may wish to reclaim this fluid under our regular policy.

Your investment in a heating system using Therminol FR fire-resistant fluid shows you care about safety; safety for personnel and equipment. The above suggestions are made to help you keep your system leak-free and protect this valuable investment.

If you have any questions about fluid leakage, disposal or reclamation, please contact your Monsanto fluid specialist.

0408285

Monsanto

TOWOLDMON0031358
WATER_PCB-00015827

COPY

DATE June 17, 1970

JOB

HEAD: How To Keep Your Therminol FR System Leak-Free

COPY: Your Therminol FR heat transfer system is a closed system. Thus fluid leakage is easily controlled. Here are some suggestions that will help you control leaks and dispose of any fluid taken out of your system.

Check These Sources For Leakage

Generally, there are four sources of leaks in a system:

Fittings. Weld all connections. Flange fittings where accessibility is desired.

Pump Seals. Canned pumps are the best protection against leakage. If mechanical seals are used, enclose them or provide a drip pan with a drain to a collection sump.

User Seals. Direct all drains to a collection sump. Install drip pans at rotary joints.

Expansion Tank Vent. Direct vent to either a cold seal tank, catch pot or drum to contain vapor condensation and light ends.

When your system is under design or construction, specify check valves at selected points. This will minimize fluid discharge in the rare case of a rupture at the using equipment or in the heater coil.

0408286

Monsanto

TOWOLDMON0031359
WATER_PCB-00015828

COPY

DATE June 17, 1970

JOB

HEAD: How To Dispose Of Therminol FR

COPY: If leakage does occur, collect the fluid and place it in drums.

Return material for disposal to:

Monsanto

W. G. Krummrich Plant

Saget, Illinois

Attn: Supervisor, Department 246

Please advise your Monsanto fluid specialist that material is being returned for disposal so the proper papers can be prepared. The charge for this disposal is $.03/lb. (not including drums and freight costs).

Follow the same procedure for change-out of your fluid charge. Or, you may wish to reclaim this fluid under our regular policy. {Is everyone aware of this? Also, have we published any documents on reclaim methods which customers himself can use?

I would think we would only want to charge customer 3¢/lb for disposal after:
1) He has considered reclaim of fluid himself, and
2) Reclaim via Findett.
If fluid is beyond these limit it should be incinerated at WGK.

Your investment in a heating system using Therminol FR fire-resistant fluid shows you care about safety; safety for personnel and equipment. The above suggestions are made to help you keep your system leak-free and protect this valuable investment.

If you have any questions about fluid leakage, disposal or reclamation, please contact your Monsanto fluid specialist.

0406287

Monsanto

TOWOLDMON0031360
WATER_PCB-00015829