

# Safety Inspection Checklist

Month            20      

Date Revised Jan. 4, 2006

Revision Number:

11

page 1 of 3

Inspection Date																				
<b>Unit Operations Area</b>																				
<b>Safety Equipment</b>																				
HF-54 and HF-2 is on, switch by door to B003																				
Evacuation routes posted																				
All exits and fire doors clearly marked and unobstructed																				
Check inventory of spill kit supplies																				
Telephones accessible and labeled with emergency numbers																				
<b>Eyewash and Safety Showers</b>																				
Clearly marked and unobstructed																				
Eyewash inspection up to date with tag																				
Safety shower inspection up to date with tag																				
Water continued to flow when handle was released																				
Eyewash flushed out until water is clear																				
Safety shower flushed out until water is clear																				
<b>First Aid</b>																				
Adequate supplies stocked																				
Clearly marked and unobstructed																				
<b>Fire Extinguishers</b>																				
Clearly marked and unobstructed																				
Inspection up to date with tag																				
Correct extinguisher for hazards present																				
<b>Personal Protective Equipment</b>																				
Non-porous, ankle-high safety boots worn																				
Long pants worn																				
No loose clothing, hair, or jewelry																				
Appropriate eye wear and properly marked																				
Safety goggles worn when handling hazardous chemicals																				
Hard hat worn in designated areas																				
Earplugs available																				
Appropriate gloves worn and available																				
Dust masks available																				
<b>Electrical</b>																				
Extension cords away from traffic and water																				
3-pronged plugs on cords with ground																				
Cords without frays or splices																				
Make sure the overhead crane is locked and tagged.																				
<b>Chemicals</b>																				
Stored in the proper cabinet																				
Clearly and properly labeled																				
Storage cabinets labeled clearly																				
Transported properly																				
<b>Housekeeping</b>																				
Counters and floors clean and uncluttered																				
Ladders in good condition and chained when not in use																				
Cylinders labeled, upright, and secure																				
Waste containers provided and labeled																				
Make sure drain plugs are present																				
Drain is accessible																				



Inspection Date																				
<b>Membrane Separation</b>																				
Hazards of enriched N2 and O2 are understood																				
Air outlet valve is left open while running membrane unit																				
<b>non-Newtonian Flow</b>																				
Capillary viscometer pressure no greater than 20 psig																				
Tanks not overfilled																				
<b>PDMS Bench-Scale Reactor</b>																				
Goggles, rubber apron, and rubber gloves used to handle KOH																				
Pipes and hoses are in good condition and connections are tight																				
System inerted with nitrogen at all times																				
Experiment run in the hood																				
Main gas cylinder valve fully open																				
Glassware and thermometer transferred in proper container																				
<b>PDMS Jacketed Reactor</b>																				
Goggles, rubber apron, and rubber gloves used to handle KOH																				
Appropriate container used to weigh and transfer EB, 245 fluid, and low boilers																				
Pipes and hoses are in good condition and connections are tight																				
System inerted with nitrogen at all times																				
Glassware and thermometer transferred in proper container																				
Face shield, apron, and gloves worn when adding chemicals to reactor																				
<b>Polymer Extrusion</b>																				
Insulated gloves worn when needed																				
Heat Shield is on Extruder																				
Long sleeves are worn																				
Floor is free of water, pellets, & debris																				
Proper tools used for scraping polymer																				
<b>Pumping Part A</b>																				
Pump guards are in place and properly secured																				
Tanks are not overfilled																				
Water spills cleaned up immediately																				
<b>Pumping Part B</b>																				
Pump guards are in place and properly secured																				
Tanks are not overfilled																				
Water spills cleaned up immediately																				
Power supply is and pump start-up/shut-down is executed properly																				
<b>RSST</b>																				
Specific chemical hazards are known																				
Hood fan is operating and blast gate is open																				
Insulated gloves used to handle internal vessel																				
Operating pressure kept below 325 psig																				
Face shield worn when handling hazardous chemicals																				
Rupture disk discharge should be toward back of hood																				
<b>Solvent Recovery</b>																				
Gloves to be worn during sampling																				
System inerted with nitrogen at all times																				
Take precautions during sampling (i.e. dripping after sampling)																				
All manual valves are in correct position																				
<b>Vacuum Drying</b>																				
Vacuum pump guard properly secured																				
Insulated gloves used to operate steam valves																				
Dusk mask worn when screening sand																				
Ear plugs worn when using Ro-Tap																				