

## **Appendix A**

### **Chemicals and Quantities Required for Striping and Cleaning the 3-Meter Primary Mirror (amounts shown are sufficient for at least one cleaning and stripping operation)**

1. Orvus paste detergent, 7.5 pound jar (Manufactured by Procter & Gamble)
2. Hydrochloric Acid, 2.5- liter (Fisher Scientific #A144S-212)
3. Cupric Sulfate, 500 g. (Fisher Scientific #C493-500)
4. Calcium Carbonate, 500 g. (Fisher Scientific #C64-500)
5. Potassium Hydroxide, 500 g. (Fisher Scientific #P250-500)
6. Acetone, 2.5- liter (Fisher Scientific #A40-4)
7. 2-Propanol, 1-liter. (Fisher Scientific #A451-1, case of 4)
8. Ethyl Alcohol, 200 proof 1-liter (Fisher Scientific #AC615090010)
9. Distilled Water, 20 gallons
10. Nitrogen, UHP grade, 2 cylinders

## **Appendix B.**

### **Chemical dilutions required for Appendix A solutions**

1. Orvus dilution (not critical) 1 Tablespoon per gallon of distilled water
2. Hydrochloric acid solutions
  - 2.1 "Green River" consists of 1 part  $\text{CuSO}_4$ +16 parts HCl +16 parts distilled  $\text{H}_2\text{O}$
  - 2.2 Dilute HCl solution consists of 1 part HCl to 1 part  $\text{H}_2\text{O}$
3. See 2.1 above
4. As supplied
5. Potassium Hydroxide solution, 1 part KOH to 16 parts distilled  $\text{H}_2\text{O}$
6. As supplied
7. As supplied
8. As supplied
9. As supplied
10. As supplied

## **Appendix C.**

### **Needed Supplies for Stripping and Cleaning the 3-Meter Primary Mirror**

1. Chemical resistant Nitrile non-powdered gloves
2. Eye protection equipment
3. Face masks with ear loops (Kimberly-Clark 48100 or equivalent)
4. Tyvec suits with hood
5. Disposable booties
6. Kay-Dry Ex-L Wipes
7. Texwipe Technicloth II Wipes (992-11300-036 or equivalent Fisher Scientific #18-330A)
8. Freshly laundered all cotton bar towels (special for critical cleaning of mirrors)