

| Contents | Page |
|---|-------------|
| 1 Introduction..... | 1 |
| 2 Scope and purpose | 1 |
| 2.1 Scope | 1 |
| 2.2 Purpose | 1 |
| 3 Definitions..... | 2 |
| 3.1 Liquid oxygen | 2 |
| 3.2 Oxygen | 2 |
| 3.3 Small portable liquid oxygen system | 2 |
| 3.4 Transfilling | 2 |
| 4 Hazards of oxygen | 2 |
| 4.1 Transfilling hazards | 2 |
| 4.2 Oxidation hazards..... | 2 |
| 4.3 Cryogenic hazards..... | 2 |
| 4.4 Expansion—vaporization hazards..... | 3 |
| 5 Handling liquid oxygen | 3 |
| 5.1 Use of liquid oxygen systems | 3 |
| 5.2 Transfilling | 3 |
| 5.3 Sources of ignition | 4 |
| 5.4 Patient instructions | 4 |
| 5.5 Storage of liquid oxygen systems..... | 4 |
| 5.6 Maintenance of liquid oxygen systems..... | 5 |
| 6 Safety | 5 |
| 6.1 Fire prevention..... | 5 |
| 6.2 Prevent high concentrations of oxygen | 5 |
| 6.3 Warning signs..... | 5 |
| 6.4 First aid for frostbite and cryogenic burns | 6 |
| 6.5 Fire extinguisher/sprinklers..... | 6 |
| 6.6 Emergency procedures | 6 |
| 7 References | 6 |
| Appendix | |
| Appendix A—Use of liquid oxygen systems in health care facilities—precautions at a glance (Informative) | 7 |