

## **1. Selection of Refrigerants**

## **2. Anhydrous Ammonia**

- 2.1 Physical Properties
- 2.2 Physiological Properties (Exposure Limits)
- 2.3 Chemical Properties

## **3. Potential Hazards**

- 3.1 Refrigeration Systems
- 3.2 Refrigerant Storage
- 3.3 Emergency Treatment

## **4. On Site Safety Precautions**

- 4.1 Personnel Protection
- 4.2 Plant Room Requirements
- 4.3 Ventilation
- 4.4 Emergency Procedures
- 4.5 Alarm Systems

## **5. Personnel Protective Equipment**

- 5.1 Personnel Protection Regulations
- 5.2 Respiratory Equipment
- 5.3 Recommended Personnel Safety Equipment

## **6. COSHH**

## **7. Environmental Issues**

- 7.1 Environmental Protection Act 1990
- 7.2 Hazards to the Environment

## **8. Pressure Testing Procedures**

## **9. Decanting from Systems and Filling Containers**

- 9.1 Cylinder Safety and Inspection
- 9.2 Guidance on Decanting Ammonia
- 9.3 Supply of Empty Cylinders for Decanting Purposes

## **10. Charging Systems**

- 10.1 Manufactures Data
- 10.2 Operating Parameters for Efficiency

## **11. Notes on Draining Oil from an Ammonia Refrigeration Systems**

- 11.1 Safe Procedures
- 11.2 Storage of Waste

## **12. Documentation**

- 12.1 Safe Systems of Works
- 12.2 Risk Assessments
- 12.3 Method Statements
- 12.4 Obtaining Permission

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