



## **REFEX INDUSTRIES LIMITED.**

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### **Material Safety Data Sheet**

#### **1) product & Company Identification**

product: Dichlorofluoroethane (HCFC-141b)

Molecular formula: CH<sub>3</sub>CCL<sub>2</sub>F

#### **2) Composition/ Information on ingredients Chemical Characterization:**

Dichlorofluoroethane

CAS number: 001717-00-6

H.S. CODE: 29034910

#### **3) Hazards Identification**

Designation : No specific hazard

Risk Phrases

#### **4) First Aid Measures**

Inhalation

Remove to fresh air. seek medical advise if symptoms persist.

Eye Contact

Flush with copious amounts of water for at least 15 minutes.

Skin Contact

Wash affected area with soap and water. Rinse thoroughly.

## **Ingestion**

**Rinse out mouth and Drink lots of water. If unusual symptoms are observed, seek medical advice.**

## **5) Fire Fighting Measures**

### **Extinguishing Medium**

**Use fire fighting measures which suit the environment and take into account other materials which may be involved. In general, water-based extinguishers should not be used for fires involving organic materials. Use carbon dioxide or dry powder.**

### **Protective Equipment**

**Wear self-contained breathing apparatus and protective clothing.**

## **6) Accidental Release Measures**

### **Personal protection**

**Wear protective equipment including rubber gloves, and eye protection. Keep unprotected persons away.**

### **Environmental protection**

**Take precautions to ensure product does not enter the drainage system.**

## **7) Handling and Storage**

### **Handling**

**The packing (Iron drum) of HCFC-141b, People shall be careful of not bumping, dragging, throwing.**

### **Storage**

**The HCFC-141b shall be packed in the clean and dry iron drum, The iron drum shall be stored in the cool place.**

## **8) Exposure Controls And Personal Protection**

### **Eye**

**Avoid eye contact . wear safety spectacles or goggles.**

### **Hands and Body**

**Avoid skin contact.**

### **9)Physical And Chemical Properties**

**Appearance: Clear, transparent, colorless liquid.**

**Applications: Foaming agent as alternative to CFC 11, and precision cleaning agent to substitute CFC-113.**

**Boiling Point: 32.05°C      Freezing Point: -103.5°C**

**Density of Liquid at 25°C: 1.227**

**Specific heat (25°C, aqua, kJ/kg): 1.16      Critical Temperature °C: 204.15**

**Critical Density, g/cm<sup>3</sup>: 0.433**

**Latent Heat of Vaporization at bp, KJ/Kg : 223.0      Solubility in water : not solubility in water.**

**ODP: 0.11      GWP: 0.09**

### **10) Stability And Reactivity**

**Low acids. No corrosive, It keeps stability in the normal temperature.**

### **11) Toxicological Information**

**Low toxicity, It will not harm the people health.**

### **12) Ecological Effects**

**General**

**Take care to prevent chemical from entering the ground, water courses or drainage systems.**

### **13) Disposal Considerations**

**Disposal should be via an approved contractor and should take full account of local regulations.**

### **14) Transport Information**

**Land Transport ADR/RIC Code/Class: Not Restricted**

**Maritime Transport IMDG Code/Class: Not Restricted**

**Air Transport IATA Code/Class: Not restricted**

**15) Regulatory Information**

**Hazard indication: No specific hazard**

**16) Others**

**Risk and Safety phrases**

**None specified –Exercise all due in use**