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## Safety Data Sheet

This safety data sheet is prepared in accordance with 91/155/EEC.

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### 1. Identification of the substance/preparation and company

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#### 1.1 Product details

Trade name : ACTIVATED CARBON

#### 1.2 Supplier details

Name of distributor

Ingersoll Rand – Charlotte Distribution & Logistics Center

Address

10000 Twin Lakes Parkway, Suite C, Charlotte, NC 28269

Telephone No.

1.3 Emergency telephone number : +1-636-532-6613

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### 2. Composition/information on ingredients

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Chemical Name and Synonyms	: Activated Carbon
Formula	: C
Ingredients	: Carbon
CAS No.	: 7440-44-0
UN No.	: Non-corresponding-matter
Percent	: Carbon above 98 %
	: Ash : less than 1 % including SiO <sub>2</sub> as the main components.
	: water : less than 1 %

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### 3. Hazards identification

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Not categorized as hazardous or harmful material.

TLV(ACGIH) : N/A

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### 4. First aid measures

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Eye Contact	: Flush with plenty of water for at least 15 minutes and medical care immediately.
Skin Contact	: Wash with soap and large quantities of water.
Inhalation	: Keep the fresh air and warm condition and emergency care.
If Swallowed	: In case of cyanosis, immediate artificial breathing.
Effect of Overexposure	: When inhale the dust of Activated Carbon, rinse mouth with water.
	: Vomit immediately and wash out the mouth completely, Emergency medical care should be required.
	: Avoid exposure to dust levels above 2.9 mg per cubic meter.
	: Long-term and low-level exposure to the dust may bring about the pneumoconiosis.

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5. Fire-fighting measures

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Extinguishing Media : Foam, Multipurpose Dry Chemical and water Type  
Special Fire Fighting Procedure : Extinguishers.  
Unusual Fire and Explosion Hazards : None  
: Contact with Strong oxidizers such as Ozone, Liquid Oxygen, Permanganate, etc. may result in fire.

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6. Accidental release measures

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Environmental precautions  
Methods for cleaning up/taking up  
Sweeping or Vacuuming (Spills can create nuisance dust and house keeping problems.)

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7. Handling and storage

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Ventilation : Local exhaust is recommended,  
Storage precaution : Packaged activated carbon is not resistant to weather or outside storage and requires indoor storage facilities.

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8. Exposure controls/personal protection

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Protective equipment : no special requirements  
Protective gloves : Rubber gloves recommended  
Eye protection : Goggles recommended  
Respiratory protection : NIOSH Approved particular filter respirator is recommended if excessive dust is generated.

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9. Physical and chemical properties

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Boiling point (°C) : N/A  
Vapor pressure (mmHg) : N/A  
Vapor density (Air=1) : N/A  
Solubility in water : Insoluble  
Specific gravity (H<sub>2</sub>O=1) : 1.8 - 2.1  
Percent volatile by volume (%) : N/A  
Flash point : N/A  
Auto-Ignition Point (°C) : Above 400 °C.  
Appearance and Odor : Black particulate solid

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10. Stability and reactivity

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Stability : Stable  
Incompatibility(Materials to Avoid) : Strong Oxidizers such as Ozone, Liquid Oxygen, Permanganate, Nitric Acid etc.  
Hazardous Polymerization : May not occur.  
Conditions to Avoid : Wet activated carbon removes oxygen from air causing a severe hazard to workers inside carbon vessels and enclosed or confined spaces.  
Hazardous Decomposition Products : Contact with strong inorganic acids such as Nitric Acid and Sulfuric Acid may generate hazardous gases such as NO<sub>2</sub> and SO<sub>2</sub>.

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11. Toxicological information

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Acute toxicity : —

TLV(ACGIH) : N/A

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12. Ecological information

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Recommended disposal : Activated carbons that have adsorbed organic liquids and gases may lower the ignition point and must be checked for ignition point before disposal.

Disposal of in accordance with local, state, and federal regulation.

Pay special attention not to flow out to the river, water supply system, sewerage, sea.

If possible, regeneration is recommended.

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13. Disposal considerations

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In case of landfill, ask for permission in accordance with regulations of industrial discharges and clean in your country.

In case of incineration on the conventional way, adapt to the regulations on air pollution.

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14. Transport information

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Cover the product with a hood or a sheet to avoid rain.

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15. Regulatory information

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Follow all regulations in your country.

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16. Other information

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All data presented herein is based on actual measurements performed by the manufacturer.

All information contained herein is presented in good faith and without any warranty, including a warranty of the fitness of the information for a particular purpose.

Holtec Gas Systems, LLC accepts no liability for damages or losses resulting from the use or misuse of this information.

Date prepared : May 10, 2007

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