

# MATERIAL SAFETY DATA SHEET

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## 1. Chemical Product Identification

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Product name : R55  
Common Chemical Name : Adsorbent

## 2. Composition / Information on ingredients

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Chemical name	<u>% Compound</u>	<u>CAS Number</u>
Predominately C	100 %	7440-44-0

## 3. Hazard Identification

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3.1 Occupational Exposure : 10mg/Nm<sup>3</sup> 8h Time weight average  
(there is no OES for activated carbon, the given value is applicable as a Nuisance Dust Limit)

## 4. First aid measures

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Medical Attention: Not immediately required.

### *Effects and Symptoms*

4.1 Ingestion : Wash mouth and give two glasses of water to drink  
4.2 Inhalation : Fresh air, Rest  
4.3 Skin Contact : Take off contaminated clothes, rinse skin with water and soap.  
4.4 Eye Contact : Immediately flush with copious amounts of water.

## 5. Fire fighting measures

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*Prevention* Keep away from sources of heat or naked flame

*Extinguish* Spray jet of water

## 6. Accidental release measures

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6.1 Personal precautions : See 8  
6.2 Instructions for removal : See 13

## 7. Handling and Storage

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- 7.1 Handling : Wet activated carbon depletes oxygen from the air and therefore, dangerously low levels of oxygen may be encountered. Whenever workers enter a vessel containing activated carbon, the vessel's oxygen content should be determined and work procedures for potentially low oxygen areas be followed. Appropriate protective equipment should be worn.
- 7.2 Storage : Keep separated from oxidising substances, unsaturated oils, metal salts, sources of direct heat or naked flames.

## 8. Exposure controls / personal protection

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- TLV/STEL (USA) : Exposure Limits (TWA in mg/m<sup>3</sup>)
- |  | <u>ACGIH TVL</u> | <u>OSHA</u>                    |
|--|------------------|--------------------------------|
|  | 10               | 15 (total dust) 5 (respirable) |
- 8.1 Inhalation : Local exhaust ventilation system or breathing protection
- 8.2 Skin : Gloves
- 8.3 Eye protection : A pair of goggles

## 9. Physical and chemical properties

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1. Appearance : Black granules
2. Odour : None
4. Boiling point : N/A
5. Melting point : N/A
6. pH : N/A
- Solubility*
7. Water : Insoluble
8. Oil and Solvents : Insoluble
9. Vapour density : N/A
10. Flash point : N/A
11. Auto-ignition temperature : N/A
12. Lower explosion limit : N/A
13. Upper explosion limit : N/A
14. Viscosity (mpa.sec.) : N/A

## 10. Stability and reactivity

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- 10.1 Stability : Stable under normal conditions
- 10.2 Hazardous decomposition products : Carbon dioxide and Carbon Monoxide

## 11. Toxicological Information

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Inhalation	: NRS Carbon EA 3-4 is not regarded as a harmful product
Ingestion	: A once intake of 50 grams gives no side effects
Eyes	: Irritation is possible, no side effects
Skin Contact	: No detrimental effects are known. It is not taken up by the skin

## 12. Ecological information

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BOD	: 1 to 2 mg O <sub>2</sub> /gram carbon
COD	: 2000 mg O <sub>2</sub> /gram carbon
Biodegradability	: Non biodegradable
Toxicity	: Non toxic.

## 13. Disposal considerations

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1. Methods of disposal	: Vacuum up spilled product and flush remaining product with plenty of water.
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## 14. Other information

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This information herein is based on present knowledge. However, no warranty, expressed or implied, is made

Date first issue	: May 1997
Date of current issue	: January 2003
Version	: 1

## 15. Specification

CTC Activity	min 60%
Moisture Content	max 5%
Total Ash Content	max 12%
Ball-Pan Hardness	min 98%

## 16 Typical Properties

Surface Area	1000m <sup>2</sup> /g
Butane Activity	25%
Apparent Density	470-530kg/m <sup>3</sup>
Pellet diameter tolerance	±10%

