

MATERIAL SAFETY DATA SHEET

Company Name: Hi-line Industries Limited
Address: 5 Crown Industrial Estate, Oxford Street, Burton on Trent,
Staffs.
DE14 3DT
Phone: +441283533377
Fax: +441283533367

1. Chemical Product Identification

Product name : R55
Common Chemical Name : Adsorbent

2. Composition / Information on ingredients

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

3. Hazard Identification

3.1 Occupational Exposure : 10mg/Nm3 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

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

Prevention Keep away from sources of heat or naked flame

Extinguish Spray jet of water

6. Accidental release measures

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

7. Handling and Storage

- 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

- TLV/STEL (USA) : Exposure Limits (TWA in mg/m³)
- | | <u>ACGIH TLV</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

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

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

11. Toxicological Information

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

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

13. Disposal considerations

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

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 ² /g
Butane Activity	25%
Apparent Density	470-530kg/m ³
Pellet diameter tolerance	±10%

