

MATERIAL SAFETY DATA SHEET

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1. IDENTIFICATION OF THE PRODUCT.

Product name:

Steam activated and non-impregnated granular, pellet or powder activated carbon, used principally to absorb organic contamination from gaseous & liquid media.

2. COMPOSITION / INFORMATION ON INGREDIENTS

Description: Activated Carbon (100% by weight dry basis)
EINECS Number: 231-153-3 (or 264-846-4)
CAS Number: 7440-44-0 (or 64365-11-3)
HS Customs code: 3802

3. HAZARDS IDENTIFICATION

Caution - Wet activated carbon removes oxygen from air causing severe hazard to workers inside carbon vessels and enclosed or confined spaces. Before entering such an area, sampling and work procedures for low oxygen levels should be taken to ensure ample oxygen availability, observing all local and national regulations.

Black powder

Contact with airborne dust may be slightly irritating to eyes and respiratory tract.

4. FIRST AID MEASURES

Inhalation: Not applicable
Skin contact: Wash with soap and water
Eye contact: Flush with plenty of water for at least 15 minutes
Ingestion: Not applicable

5. FIRE-FIGHTING MEASURES

Prevention: Keep away from sources of heat, strong oxides or naked flames
Suitable extinguishing media: Flood with plenty of water, water spray, CO₂ foam or dry chemical
Special exposure hazards: Carbon monoxide and carbon dioxide may be generated in the event of a fire

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6. ACCIDENTAL RELEASE MEASURES

<i>Personal precautions:</i>	See section 8, measure for personal protection
<i>Environmental precautions:</i>	None known
<i>Methods of cleaning up:</i>	Sweep up carefully and shovel into a container for disposal / removal from the spill location. If released, report in accordance with local and national regulation

7. HANDLING AND STORAGE

<i>Handling:</i>	Avoid contact with skin and eyes. Avoid inhalation of dust. Handle in well ventilated work space. Smoking in area should be prohibited.
<i>Storage:</i>	Store in a cool, dry, ventilated storage and in closed containers. Keep away from oxidisers, heat or flames. Store away from ignition sources.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<i>Respiratory protection:</i>	Local exhaust ventilation system or an approved particulate filter is recommended if excessive dust is generated
<i>Hand protection:</i>	Protective gloves recommended
<i>Eye protection:</i>	Safety glasses or goggles recommended
<i>Skin and body protection:</i>	Long sleeved clothing recommended
<i>Hygiene measures:</i>	Keep an eye wash fountain available. Wash hands at breaks and at end of shift. Launder contaminated clothing before use
<i>Exposure limit values:</i>	None

9. PHYSICAL AND CHEMICAL PROPERTIES

<i>Appearance:</i>	Particulate solid, pellet, granular or powder
<i>Colour:</i>	Black
<i>Odour:</i>	None
<i>pH (if in a water based slurry):</i>	6-11
<i>Boiling point / melting range:</i>	Not applicable
<i>Melting point / Melting range:</i>	Not applicable
<i>Flash point:</i>	Not applicable
<i>Flammability (solid, gas):</i>	Not applicable
<i>Auto flammability:</i>	Not applicable
<i>Upper explosion limit (UEL):</i>	Not applicable
<i>Lower explosion limit (LEL):</i>	Not applicable
<i>Vapour pressure:</i>	Not applicable
<i>Solubility:</i>	Insoluble in water, ethanol & hydrocarbons
<i>Partition coefficient : n-octanol/water:</i>	Not applicable

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10. STABILITY AND REACTIVITY

<i>Conditions to avoid:</i>	Aoid dust generation, naked flames and ignition sources
<i>Materials to avoid:</i>	Strong oxidisers such as ozone, liquid oxygen, chlorine & permanganate
<i>Hazardous decomposition products:</i>	Combustion of this material may result in the generation of carbon monoxide, carbon dioxide and nitrogen oxides.

11. TOXICOLOGICAL INFORMATION

<i>Effects & hazards of eye contact:</i>	The physical nature of the product may produce eye irritation
<i>Effects & hazards of skin contact:</i>	The product is not a primary skin irritant. The primary skin irraitaion index (Rabbit) is 0
<i>Effects & hazards of inhalation:</i>	The product is practically non-toxic through inhalation. The accute inhalation LC50 (Rat) is >64.4mg/l (normal concentration)
<i>Effects & hazards of ingestion:</i>	The product is non-toxic through ingestion. The accute oral LD50 (Rat) is >10g/kg
<i>Chronic effects:</i>	The effects of long-term, low-level exposures to this product have not been determined. Safe handling of this material on a long-term basis should emphasize the avoidance of all effects from repetitive acute exposures

12. ECOLOGICAL INFORMATION

<i>BOD / COD:</i>	No information available
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13. DISPOSAL CONSIDERATIONS

<i>Disposal:</i>	In accordance with local and national regulations
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14. TRANSPORT INFORMATION

<i>Transport:</i>	Steam activated carbons have been tested according to the United Nations Transport of Dangerous Goods test protocol for spontaneously combustible material. It has been specifically determined that they are non hazardous for transortation with UN 1362, class 4.2 Propper Shipping name "Activated Carbon"
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15. REGULATORY INFORMATION

Steam activated carbons are not classified as dangerouse (European Directive 67/548/EEC and 1999/45/EC)

Labelling information:

<i>Product name:</i>	Activated Carbon
<i>Classification:</i>	Non Hazardous
<i>S Phrases:</i>	S14 Keep away from oxidizers S16 Keep away from sources of ignition

16. OTHER INFORMATION

This Safety Data Sheet has been written to comply with the preparation directive 1999/45/EC

R52 Harmful to aquatic organisms
R53 May cause long term adverse effects in the aquatic environment

Whilst every effort has been made to be as accurate as possible, CACTUS CARBON PROVIDES NO WARRANTY WITH RESPECT TO THIS INFORMATION AND DISCLAIMS ALL LIABILITY ASSOCIATED WITH IT'S USE.

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication.

The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release, and is not to be considered a warranty of quality specification.

The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process unless specified in the text.