
MATERIAL SAFETY AND DATA SHEET

Section 1: Identification of the substance and company

Product Name: Charcoal, Activated

Chemical Formula: C

Company Identification:

Acorn Chemicals Ltd. Emergency Tel No:
T/A Acorn Water
Glasslyn Rd. (023) 43466
Bandon,
Co. Cork.
Rep. Of Ireland.
Tel: (023) 43466
Fax: (023) 43467

Section 2: Composition/Information on ingredients

	CAS No	%(w/w)	Hazardous
Steam Activated Carbon	7440-44-0	90 - 100%	
	Yes		

Section 3: Hazards Information

Emergency Overview: Caution! Activated carbon affects the respiratory and cardiovascular systems.

Inhalation: No adverse effects expected. May cause mild irritation to the respiratory tract.

Ingestion: No adverse effects expected. May cause mild irritation to the gastrointestinal tract.

Skin Contact: Not expected to be a health hazard from skin exposure. May cause mild irritation and redness.

Eye Contact: No adverse effects expected. May cause mild irritation, possible reddening.

1

Chronic Exposure: Prolonged inhalation of excessive dust may produce pulmonary disorders.

Aggravation of Pre-existing Conditions:
No information found.

Section 4: First Aid Measures

Inhalation: Remove to fresh air. Get medical attention for any breathing difficulty.

Skin Contact: Not expected to require first aid measures. Wash exposed area with soap and water. Get medical advice if irritation develops.

Eye Contact: Wash thoroughly with running water. Get medical advice if irritation develops.

Ingestion: Give several glasses of water to drink to dilute. If large amounts were swallowed, get medical advice.

Section 5: Fire fighting measures

Fire: As with most organic solids, fire is possible at elevated temperatures or by contact with an ignition source. Activated carbon is difficult to ignite and tends to burn slowly (smolder) without producing smoke or flame. Wet activated carbon depletes oxygen from the air. Materials allowed to smolder for long periods in enclosed spaces, may produce amounts of carbon monoxide which may reach the lower explosive limit for carbon monoxide of 12.5% in air. Contact with strong oxidizers such as ozone or liquid oxygen may cause rapid combustion.

Explosion: Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Minimum explosible concentration 0.140 g/l.

Fire Extinguishing Media: Water spray, dry chemical, alcohol foam, or carbon dioxide.

Special Information: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

Section 6: Accidental release measures

Remove all sources of ignition. Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Clean up spills in a manner that does not disperse dust into the air. Use non-sparking tools and equipment. Reduce airborne dust and prevent scattering by moistening with water. Pick up spill for recovery or disposal and place in a closed container. Warning! Spent product may have absorbed hazardous materials.

Section 7: Handling and Storage

Handling: Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Keep away from moisture and oxidizers. Avoid dust dispersal.

Storage: Wet activated carbon depletes oxygen from the air and therefore dangerously low levels of oxygen may be encountered in confined spaces. Work procedures for potentially low oxygen areas should be followed. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

Section 8: Exposure Controls/Personal Protection

Airborne Exposure Limits:

- OSHA Permissible Exposure Limits (PELs):
activated carbon (graphite, synthetic): total particulate = 15 mg/m³Fe

Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.

Personal Respirators:

For conditions of use where exposure to the dust or mist is apparent, a half-face dust/mist respirator may be worn. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection:

Wear protective gloves and clean body-covering clothing.

Eye Protection:

Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

Section 9: Physical and Chemical properties

Colour: Black Powder
Odour: Odourless
Boiling point: Sublimes
Solubility: Insoluble
Melting point: 3550°C
Specific gravity: 1.8 – 2.1
Vapor Density (Air=1): 0.4
Vapor Pressure (mm Hg): 1 @ 3586C (6487F)
% Volatiles by volume @ 21C (70F): 0

Section 10: Stability and Reactivity

Stability: Stable under ordinary conditions of use and storage.

Conditions to Avoid: Incompatibilities; Strong oxidizers such as ozone, liquid oxygen, chlorine, permanganate, etc. may result in rapid combustion. Avoid contact with strong acids. Moisture and incompatibles.

Hazardous Decomposition Products: Involvement in a fire causes formation of carbon dioxide and carbon monoxide.

Section 11: Toxicological Information

Ingredient	Known	Anticipated	IARC Category
Steam Activated Carbon (7440-44-0)	No	No	None

Section 12: Ecological Information

No ecological problems are expected when the product is handled and used with due care.

Section 13: Disposal Considerations

Disposal Method Product: Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options.

Disposal Method Packaging: Dispose of container and unused contents in accordance with local requirements.

Section 14: Transport Information

Not regulated.

Section 15: Regulatory Information

Section 16: Other Information

This data sheet was prepared in accordance with Directive 91/155/EEC.

This information is given without any warranty or representation. We do not assume any legal responsibility for same, nor do we give permission, inducement, or recommendation to practice any patented invention without a license. It is offered solely for your consideration, investigation and verification. Before using any product, read its label.