

Material Safety Data Sheet

Product name: ACF-500FR
Chemical name: Activated Carbon
Chemical family: Carbon
Formula: C

Composition/Information on ingredients

Chemical Characterisation: Steam Activated Carbon, black, granular impregnated with approx 5-10% wt. Phosphoric acid and Carbamide

Components:	CAS number	UN number
Carbon	7440-44-0	1362
Phosphoric acid	7664-38-2	1805
Carbamide	57-13-6	

Hazards Identification

This product is an odourless black granule or extruded pellet. Never enter a confined space containing carbon as it will adsorb oxygen and asphyxiation may result.

Prolonged or repeated exposure to dust may cause eye and respiratory tract irritation.

First Aid Measures

Eyes:	Promptly flush with running water for 15 minutes including water under eyelids. Obtain medical attention.
Skin:	Wash affected area well with water. Remove clothing, clean and dry thoroughly before re-use. Get medical help if irritation develops.
Ingestion:	Give ½ pint of warm water to drink. Seek medical help urgently. Do not induce vomiting.
Inhalation:	Remove to fresh air. Get medical help if irritation develops.

Fire Fighting Measures

Flammable properties:

Hazardous combustion Products:

Material will burn in a fire, releasing combustion products of carbon monoxide, carbon dioxide and phosphorus oxide.

General hazards: Other material adsorbed on to the carbon may also be released.

Extinguishing media: Water fog, foam, dry chemical.

Fire fighting equipment: Self-contained breathing apparatus and full body protective clothing.

Accidental Release Measures

Notify safety personnel for large spills. Avoid generation of dust. Collect solid for recovery or disposal. Personnel involved in clean up need protection against skin and eye contact and inhalation of dust or mist.

Handling and Storage

Handling:	Follow good handling and housekeeping procedures, avoid spills, accumulation of dust and generation of airborne dust. Avoid prolonged contact with skin and eyes. Avoid inhalation of dust. Wear protective gloves and safety glasses or goggles. Use in a well ventilated area.
Storage:	Store in a sealed container in a clean, dry, well ventilated area away from strong oxidisers, strong acids, ignition sources, combustible materials and heat.

Exposure Controls and Personal Protection

Eye protection: Wear safety glasses with side shields, safety goggles or a face shield, especially in dusty conditions. Provide eye wash station nearby.

Skin protection: Gloves and overalls should be worn when handling this product.

Respiratory protection: A dust mask meeting CEN or NIOSH regulations should be worn when handling this product.
Maximum permissible exposure limit for inert dust: 6mg m3. When exceeded, an irritation of respiratory tract is possible.

Physical and Chemical Properties (typical)

Form	Solid
Colour	Black
Smell	Typical
Danger of explosion	Under normal conditions no danger of explosion In unfavourable conditions may form an explosive dust/air mixture approx 630gl-1
Bulk density:	insoluble (the acid impregnation is water soluble)
Solubility	strong acid/suspension with water forms potassium hydroxide solution
pH value	>350°C
Ignition Temperature	none
Auto-ignition	

Stability and Reactivity

Chemical stability: Stable.

Conditions to avoid: Heat and ignition sources, strong oxidisers and combustible materials.

Hazardous decomposition Products: CO, CO₂, phosphorous oxide, ammonia

Hazardous polymerisation: None.

Toxicological Information

No toxicological properties

Ecological Information

Slightly hazardous

Disposal Considerations

In accordance with local regulations.

Transport Information

Land transport ADR/RID	Class: 8, corrosive substances UN - Number 3244
Maritime transport IMDG	Class: 8, corrosive substances UN - Number 3244
Air transport IATA	Class: 8, corrosive substances UN - Number 3244

Corrosive solid, activated carbon containing phosphoric acid

Regulatory Information

Hazardous component	corrosive = C
R-phrases	R 36/38 irritates the eyes and skin
S-phrases	S 20 when using so not eat or drink S 26 In case of contact with eyes flush carefully with water and consult a physician S 45 In case of accident or indisposition consult a physician immediately

Other information

The above information is base on our present knowledge. A guarantee of specific properties is not given.

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