**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:**
- Carbon: CAS number 7440-44-0, UN number 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.

**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**
  - 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.

**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 m⁻³. When exceeded, an irritation of respiratory tract is possible.
Material Safety Data Sheet

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
- Bulk density: approx. 630 g/l
- Solubility: insoluble (the acid impregnation is water soluble)
- pH value: strong acid/suspension with water forms potassium hydroxide solution
- Ignition Temperature: >350 °C
- Auto-ignition: none

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.