

Material Safety Data Sheet

Identification of the substance:

Product Name		Charcoal Filter
Product Code		BF002, BF004, BF008, BF012, BF019, BF030
Usage		Air, Water and Liquid Applications
Appearance		Black

Composition/Information on Ingredients:

Component Name		Carbon Element - Group
CAS No		74440.44.0
Cone. (3/4w/w)		Carbon (90 to 100%), Inert Ingredients (0 to 100)

Hazard Identification:

Not Hazardous according to criteria of NOHSC

Risk Phrase		No Data Available
Safety Phrases		No Data Available
Classification		No Data Available

HSNO Hazard

Potential Health Effects: Emergency Overview

Eyes		Not, Corrosive, but like Most particulate Materials may cause mild physical irritation
Skin		Not corrosive and not a primary skin irritant. Mild irritation is possible due to abrasive action of dust
Ingestion		No known deleterious effects
Inhalation		Overexposure may cause irritation to respiratory system due to drying and abrasive action of dust
Ecological		No information found

First Aid Measures:

Eyes	Immediately flush eyes with plenty of water. Seek Medical attention if irritation persists
Skin	Wash with water to avoid drying and chapping of skin
Ingestion	Give one or two glasses of water to drink. Seek medical attention if Gastrointestinal symptoms develop
Inhalation	Remove victims to fresh air. Apply resuscitation if victim is not breathing. Seek Medical attention if irritation Persists

Fire Fighting Measures:

Flash Point: 500 to 600 Deg.c

Extinguishing Media: Dry chemical, Foam, Carbon dioxide, Water fog etc.

Special Exposure Hazards:

Steam Activated Carbon is combustible but not easily ignitable below 300C and self-ignition in air is at well above 500C. Activated carbon is an electrical conductor and should therefore not be allowed to accumulate as dust on open electrical circuits. Electrical outlets, lights and motor in dry carbon feed and storage areas should be of such construction as to preclude the entrance of carbon dust. Suspension of powdered Activated Carbon may explode if exposed to strong source of ignition. Upon Combustion this product may emit carbon monoxide and low molecular weight of hydrocarbons. Other materials adsorbed on activated carbon are also released during Combustion.

Protective Equipment for Fire Fighting:

In the event of fire, wear full protective clothing and NIOSH- approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive code.

Firefighting guidance: Fire fighters should wear full protective clothing including self-contained breathing apparatus. Avoid direct stream at pressure on the carbon to prevent dispersal of shouldering particles, which could spread the fire.

Hazchem Code: N/A

Accident Release Measures:

Emergency Procedures: Personnel involved in clean up should wear full protective clothing. Eliminate all sources of ignition. Stop leak if safe to do so. Increase ventilation avoids generating dust. Do not allow products to reach drains, sewers or waterways. If the product does not enter the waterway, advise the environmental protection authority or your local waste management. Use clean non- Sparking tools and equipment.

Method and Materials for containment and cleanup: Contain and sweep/ shovel up spills with dust binding material or use an industrial vacuum cleaner. Transfer to a suitable labelled container and hold for safe disposal. Avoid contact between spattered carbon and water.

Personal Precautions: Wet Activated carbon removes oxygen from air causing a severe hazard to all 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, state and federal regulations.

Environmental Precautions: Keep away from heat, sparks and flame. Avoid contact with eyes, skin and clothing. Avoid breathing dust, keep container closed. Use adequate ventilation. Wash thoroughly after handling.

Handling and Storage:

Precautions for safe handling: Ensure an eye bath and safety shower are available and are ready to use. Observe good personal hygiene practices and recommended procedures wash thoroughly after handling. Take precautionary measures against static discharges by bonding and grounding equipment. Avoid contact with eyes, skin and clothing. Do not inhale product dust/fumes. In common with many organic chemicals may form explosive dust cloud in air.

Storage: Protect against damage. Store in cool, dry well-ventilated location and away from hot areas where fire hazard may be acute. Outside or detached storage is preferred separate from incompatibles. Containers should be bonded and grounded from transfers to avoid static sparks. Storage and use areas should be no smoking areas. Use non sparking tools and equipment including explosion proof ventilation. Containers of this material may be hazardous when they retain product residues (Dust, solids): observe all warning and precautions listed in the product.

Exposure Control/ Personal protection:

National Exposure Standards: No exposure standard has been established for this product by the international health, safety and environmental council. However, the exposure standards for the not otherwise specified is 10 mg/m³ (for inspirable dust) and 3mg/m³ (for respirable dust).

Now the exposure level at the TWA is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5-day working week. These exposure standards are a guide to be used in the control of occupational health hazards. All atmosphere contamination should be kept to as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. These are not a measure of relative toxicity.

Biological limit values: No Information available on biological limit values for this procedure.

Engineering Controls: A system of local and /or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at this source, preventing dispersion of it into the generated area.

Respiratory Protection: Wear an effective dust mask where dust/ vapors are generated, and engineering controls are inadequate. Warning: Air purifying respirators do not protect workers in oxygen deficient atmospheres.

Eye Protection	Safety Glasses with side shields.
Hand Protection	Wear rubber or PVC gloves
Clothing	Long sleeved protective clothing and safety footwear
Ingestion	No adverse effects expected. May cause mild irritation to gastrointestinal troubles
Eye Contact	No adverse expected. May cause mild irritation, possible reddening
Flammability rating	Product is nonflammable
Lab protective Equipment	Goggles, Lab coat, Class- B Extinguishers
Strong color code	Orange (General Code)

Physical and chemical properties:

Appearance	Black particulate solid pellet or powder
Physical state	Granular or powder
Color	Black
Odor	Odorless
Solubility	Insoluble in water
Specific gravity at 23 deg C	-0.45 to 0.55
Melting point	3550deg.C
Vapor Pressure at 20 deg	3586 deg.C
Vapor density	0.4

Stability And Reactivity:

Stability: Stable under ordinary condition of usage and storage.

Hazard decomposition Product: Involvement in a fire causes formation of carbon dioxide and carbon monoxide.

Hazard Polymerization: Will not occur.

Incompatibilities: Liquid air oxidizing materials, strong oxidizers such as ozone, liquid oxygen, chlorine, permanganate etc.

Conditions to avoid: Avoid excessive heat, direct sunlight, generating dust, moisture, static discharges and high temperature.

Hazardous Decomposition products: On Burning, this product will emit toxic fumes including those of oxides of carbon.

Toxicological Information:

Toxicity Data: No adverse health effects expected if the product is handled in accordance with the material safety data sheet and the product label. No Toxicological LD50 data is available for this product.

Health Effects - Acute

Eyes		Immediately flush eyes with plenty of water, seek medical attention if irritation persists.
Skin		Wash with soap and water to avoid drying and chapping of skin.
Ingestion		Give one or two glasses of water to drink. Seek medical attention if gastrointestinal symptoms develop.
Inhalation		Remove victim to fresh air. Apply resuscitation if the victim is not breathing
Long Term Studies		No Information Found
Carcinogenicity		No Information Found

Ecological Information:

Ecotoxicity: No data available.

Persistence and degradability: No information available on persistence/ degradability for this product.

Mobility: Insoluble in aqueous environment, the product is separable by filtration or sedimentation.

Environmental Fate (Exposure): Avoid Contaminating waterways, drain and Sewers.

Bio accumulative Potential: No Information available on bioaccumulation for this product.

Disposal Considerations:

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

Container Disposal: Dispose of container and unused contents in accordance with federal, state and local requirements.

Transport Information:

Land Transport

Regulation Name: ADG

UN Number: Not Applicable.

Shipping Name: Activated Carbon

Dangerous Goods Class: Not Applicable

Subsidiary Risk: Not Applicable.

Pack Group: Not Applicable.

Precaution for User: No Data Available.

Hazchem Code: *N/A*

Sea Transport

Regulation Name: IMDG

UN Number: Not Applicable.

Shipping Name: Activated Carbon

Dangerous Goods Class: Not Applicable

Subsidiary Risk: Not Applicable

Pack Group: Not Applicable.

Precaution for User: No Data Available.

Hazchem Code: *N/A*

Air Transport

Regulation Name: IATA

UN Number: Not Applicable.

Shipping Name: Activated Carbon

Dangerous goods Class: Not Applicable.

Subsidiary Risk: Not applicable.

Pack Group: Not applicable.

Precaution For User: No Data available.

Hazchem Code: *N/A*

Regulatory Information's:

Technical CAS No: 7440-44-0

Poisons Schedule: *N/A*

EPG: *N/A*

AICS Name: Carbon

HSNO Hazard Classification: NO data available.

This Product has been tested according to the UN transport of dangerous goods test these materials are spontaneously combustible materials. It has been specifically determined that this product does not meet the definition of a self - heating substance or any hazard class and therefore these are hazardous material and not regulated. This material is classified as nonhazardous according to the international health safety and environment council.

Other Information:

Each user should read the MSDS and consider the information in the context of how the selected substance will be handled and used in the workplace including its use in conjunction with all substances.