

MATERIAL SAFETY DATA SHEET

SECTION 1 - CHEMICAL PRODUCT and COMPANY IDENTIFICATION

PRODUCT NAME: TRAMFLOC® Anthracite Filter Media

DATE ISSUED: 06/01/03
SUPERSEDES: 08/25/99

DESCRIPTION: Anthracite Coal

TRAMFLOC, INC.

P. O. Box 350

Tempe, AZ, 85280-0350

480-491-6895

EMERGENCY TELEPHONE: 24 hours a day, 7 days a week, CHEMTREC: 800-424-9300

SECTION 2 - COMPOSITION and INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NUMBER	OCCUPATIONAL EXPOSURE
Anthracite Coal	8029-10-5	OSHA/PEL ACGIH/TLV 2mg/M ³ (<5% silica)
* 10 mg/M ₃ / [(1% Si) 2 + 2]		*(>5% silica)

SECTION 3 - PHYSICAL AND CHEMICAL CHARACTERISTICS

BOILING POINT: N/A VAPOR PRESSURE: N/A VAPOR DENSITY: N/A MELTING POINT: N/A
SOLUBILITY IN WATER: N/A APPEARANCE: Finely ground black powder. ODOR: None SPECIFIC
GRAVITY: 1.37 +/- 0.2 EVAPORATION RATE: (Butyl Acetate = 1) N/A

SECTIONS 4 - FIRE FIGHTING MEASURES

FLASHPOINT: NA; FLAMMABLE LIMITS - LEL: NA: FIRE AND EXPLOSION HAZARD: Releases carbon dioxide and, in oxygen deficiency, carbon monoxide. DUST EXPLOSION HAZARD.

EXTINGUISHING MEDIA: Water, foam, dry chemical. SPECIAL FIRE FIGHTING PROCEDURES: No special procedures, except to smother.

SECTION 5 - REACTIVITY DATA

STABILITY: Stable CONDITIONS TO AVOID: None INCOMPATIBILITY (MATERIALS TO AVOID):
Oxidizers HAZARDOUS DECOMPOSITION/BYPRODUCTS: Carbon dioxide, carbon monoxide. HAZARDOUS
POLYMERIZATION: Will not occur. CONDITIONS TO AVOID: None

SECTION 6 - HEALTH HAZARD DATA

ROUTE OF ENTRY: Inhalation HEALTH HAZARDS: May contain greater than 0.1% free silica, CAS 14808-60-7,
which is suspected to be a carcinogen. ACUTE: Excessive dust exposure may cause coughing. CHRONIC: Chronic
exposure to anthracite coal dust may cause pneumoconiosis

(Anthracosilicosis; anthracosis). Chronic exposure to dust containing silica above the PEL may cause cancer.

CARCINOGENICITY: Silica - yes. PA SPECIAL HAZARDS: N/A PA ENVIRONMENTAL HAZARDS: N/A

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SIGNS AND SYMPTOMS OF OVEREXPOSURE: Coughing MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Normal procedures for dust.

SECTION 7 - HANDLING AND STORAGE

STEPS TO TAKE IN CARE OF SPILL OR RELEASE: Sweep up. Avoid breathing excess dust.
WASTE DISPOSAL METHOD: Dispose as combustible solid. PRECAUTIONS TO TAKE IN HANDLING AND STORING: Do not store near oxidizers or excessive heat. OTHER PRECAUTIONS: None known.

SECTION 8 - EXPOSURE CONTROLS and PERSONAL PROTECTION

RESPIRATORY PROTECTION: Use a dust mask for exposure above the PEL or TLV. VENTILATION: Local exhaust - yes. GENERAL: Yes. SPECIAL: No OTHER: No.

PROTECTIVE GLOVES: Not necessary. EYE PROTECTION: Safety glasses with side shields are always recommended for industrial exposures. OTHER PROTECTIVE CLOTHING OR EQUIPMENT: None
WORK/HYGIENE PRACTICES: Do not eat or drink anywhere that chemicals are handled or stored.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE, COLOR AND ODOR: Black free flowing dry powder with little or no odor.

pH as is: NA; MELTING POINT/RANGE: NA; SPECIFIC GRAVITY: 1.47

WATER SOLUBILITY: Completely soluble; DENSITY: 50-60 lb/ft³

SECTION 10 - STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable. CONDITIONS TO AVOID: None.

MATERIALS TO AVOID: None.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon.

SECTION 11 - TOXICOLOGICAL INFORMATION

ACUTE TOXICITY: Not listed as a carcinogen by IARC, NTP, OSHA or ACGIH.
The OSHA 8-hour TWA for total dust is 15 mg/M³ (5 mg/M³ for the respirable fraction).
The ACGIH TLV-TWA is 10 mg/m³.

IRRITANCY AND CORROSIVENESS: May be slightly irritating to skin and eyes on prolonged exposure. No evidence of corrosiveness.

SENSITIZATION: None known.

SUBACUTE, SUBCHRONIC AND PROLONGED TOXICITY: No information available.

EMPIRICAL DATA ON EFFECTS ON HUMANS: Considered non-toxic in normal use.

SECTION 12 - ECOLOGICAL INFORMATION: N/A

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SECTION 13 - DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Recycle if possible. If not, absorb spilled material on inert absorbent and dispose of solidified material in accordance with federal, state, local or other applicable laws and regulations.

SECTION 14 - TRANSPORTATION INFORMATION: Non-Hazardous, Non-Regulated

SECTION 15 - REGULATORY INFORMATION

U. S FEDERAL REGULATIONS: CERCLA-SARA Hazard Category:

No SARA Section 313 components exist in this product.

INVENTORY INFORMATION:

EEC EINECS: All components of this product are included on the European Inventory of Existing Chemical Substances (EINECS) in compliance with Council Directive 67/548/EEC as amended.

US TSCA: This product is manufactured in compliance with all provisions of the Toxic Substances Control Act, 15 U.S.C.

CANADA DSL: Components of this product have been reported to Environment Canada in accordance with subsection 25 of the Canadian Environmental Protection Act and are included on the Domestic Substances List.

SECTION 16 - OTHER INFORMATION

HMIS RATINGS: HEALTH: 1; FLAMMABILITY: 1; REACTIVITY: 0; PROTECTION: F

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