



Material Safety Data Sheet

Filter Ag

Last Update: Feb 1, 2004

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: FILTER AG
GENERAL USE: Filter Media
PRODUCT DESCRIPTION: Off-white powder

MANUFACTURER'S NAME: Northern Filter Media
ADDRESS: 2509 Pettibone Ave
CITY, STATE AND ZIP: Muscatine, IA 52761
TELEPHONE: (563) 263-2711
EMERGENCY TELEPHONE: CHEM-TEL (800) 255-3924
Outside USA (813) 248-0573
DATE PREPARED: May 6, 2002

SECTION 2: HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENTS: Silica, crystalline quartz (a, b)

CAS# 14808-60-7

% (by weight) 100

OSHA PELL

PPM

MG/MG3 0.1

ACGIH TWA

PPM

MG/MG3 0.06

SARA TITLE III

RQ LBS

- (a) California Prop 65. Safe Drinking Water and Toxic Enforcement Act of 1986, chemicals known to the state to cause cancer or reproductive toxicity. A person in the course of doing business must warn others who may consume, come in contact with, or otherwise be exposed to this chemical.
- (b) Indicates substance appears on National Toxicology Program (NTP) list of carcinogens, International Agency for Research on Cancer (IARC) list of carcinogens or is regulated by the Occupational Safety and Health Administration (OSHA) as a possible carcinogen.

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Granular powder, airborne dust particles are harmful and irritating to respiratory tract. Contact with eyes may cause irritation. Silica, crystalline quartz indicates carcinogenic classification – NTP: Anticipate Carcinogen, IARC Monographs: Group 1, “Carcinogenic to Humans”. Hazard symbols: Xn. Risk Phrases: R20, 36/37, 40



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POTENTIAL HEALTH EFFECTS:

INHALATION: may cause breathlessness, wheezing, cough and sputum production.

Pulmonary function may be reduced by inhalation of respirable crystalline silica.

SKIN: None expected, however, prolonged contact may cause irritation.

EYES: Contact with eyes may cause irritation.

INGESTION: May cause gastric distress, stomach pains, vomiting and diarrhea.

CARCINOGENICITY: Silica, crystalline quartz indicates carcinogenic classification – NTP: Anticipate Carcinogen, IARC Monographs: Group 1, “Carcinogenic to Humans”.

SECTION 4: FIRST AID MEASURES

INHALATION: Remove affected person to fresh air; if symptoms persist seek medical attention

SKIN: Remove contaminated clothing; wash affected area with soap and water; launder contaminated clothing before reuse; if irritation persists, seek medical attention.

EYES: Remove contact lenses. Flush eyes with clear running water for 15 minutes while holding eyelids open; if irritation persists seek medical attention.

Ingestion: Give two glasses of water for dilution; do not induce vomiting; seek medical attention.

SECTION 5: FIRE FIGHTING MEASURES

FLASH POINT (METHOD USED): Non-flammable

FLAMMABLE LIMITS

LEL: Not applicable

UEL: Not applicable

AUTOIGNITION TEMP: Not determined

NFPA CLASS: None

GENERAL HAZARD: Product is not considered flammable or combustible. Products of combustion include compounds of carbon, hydrogen and oxygen, including carbon monoxide.

EXTINGUISHING MEDIA: Carbon dioxide, water, water fog, dry chemical, chemical foam

FIRE FIGHTING PROCEDURES: None

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

HAZARDOUS COMBUSTION PRODUCTS: Smoke, fumes, oxides of carbon

SECTION 6: ENVIRONMENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Small spills – wash to sanitary sewer with plenty of water. Large spills – recover and segregate product for reuse; shovel product into approved container for disposal.



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SECTION 7: HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Keep container closed when not in use; protect containers from abuse; store containers in cool, dry area. Keep this and other chemicals out of reach of children.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: The use of local exhaust ventilation and airborne particle collection is recommended. No other special controls are indicated.

PERSONAL PROTECTION

RESPIRATORY PROTECTION (SPECIFY TYPE): NIOSH approved respirator with HEPA cartridge designed to remove airborne particulate present in excess of maximum allowable concentration due to operations such as mixing, spraying, sanding, buffing, etc. Refer to 29 CFR 1910.134 for regulations.

PROTECTIVE GLOVES: Neoprene or rubber gloves

EYE PROTECTION: Safety goggles with side shields

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Safety eyebath nearby

WEEK/HYGIENIC PRACTICES: Practice safe workplace habits. Minimize body contact with this, as well as all chemicals in general.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

VAPOR PRESSURE (MM Hg): Not applicable

VAPOR DENSITY (AIR = 1): Not applicable

SPECIFIC GRAVITY (WATER = 1): 2.4 – 2.6

EVAPORATION RATE (n – Butyl Acetate = 1): Not applicable

SOLUBILITY IN WATER: Insoluble

FREEZING POINT: Not applicable

pH: Not applicable

APPEARANCE AND ODOR: Off white powder; no odor

BOILING POINT: F (C)

PHYSICAL STATE: Powder

VISCOSITY: Not applicable

VOLATILE ORGANIC COMPOUNDS (Total VOC's): Not applicable

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID: Store in cool dry area

INCOMPATIBILITY (MATERIALS TO AVOID): Dissolves in hydrofluoric acid to produce corrosive gas – silicone tetra fluoride

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: None



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SECTION 11: TOXICOLOGICAL INFORMATION

HAZARDOUS INGREDIENTS: Silica, crystalline quartz
CAS #: 14808-60-7
EINECS #: 238-878-4
LD50 of Ingredient: Not established
LC50 of Ingredient: Not established

SECTION 12: ECOLOGICAL INFORMATION

No data are available on the adverse effects of this material on the environment. Neither COD nor BOD data are available. Based on the chemical composition of this product it is assumed that the mixture can be treated in an acclimatized waste treatment plant system in limited quantities. However, such treatment should be evaluated and approved for each specific biological system. None of the ingredients in this mixture are classified as a Marine Pollutant.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose of in accordance with Local, State and Federal Regulations. Products classified as non-hazardous may become hazardous waste upon contact with other products. Refer to "40 CFR Protection of Environmental Parts 260 – 299" for complete waste disposal regulations. Consult your local, state or Federal Environmental Protection Agency before disposing of any chemicals.

SECTION 14: TRANSPORT INFORMATION

PROPER SHIPPING NAME: Not regulated
HAZARD CLASS / PACK GROUP: None / none
IATA HAZARD CLASS / PACK GROUP: NONE
REFERENCE: Not applicable
IMDG HAZARD CLASS: None
IDENTIFICATION NUMBER: None
RID/ADR Dangerous Goods Code: None
LABEL: None
HAZARD SYMBOLS: None

Note: Transportation information provided is for reference only. Client is urged to consult CFR 49 parts 100 – 177, IMDG, IATA EC and United Nations TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.



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SECTION 15: RESPIRATORY INFORMATION

TSCA (Toxic Substance Control Act): All components of this product are listed on the U.S. Toxic Substances Control Act Chemical Inventory (TSCA Inventory) or are exempted from listing because of Low Volume Exemption has been granted in accordance with: 40 CFR 723.50.

SARA TITLE III (Superfund Amendments and Reauthorization Act):

311/312 Hazard Categories: None

313 Reportable Ingredients: None

CERCLA (Comprehensive Response Compensation and Liability Act): None

CPR (Canadian Controlled Products Regulations): This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and MSDS contains all the information required by the Controlled Products Regulation.

IDL (Canadian Ingredient Disclosure List): Components of this product identified by CAS number and listed on the Canadian Ingredient Disclosure List are shown in Section 2.

DSL / NDSL (Canadian Domestic Substances List / Non-Domestic Substances List): Components of this product identified by CAS number are listed on the DSL or NDSL and may or may not be listed in Section 2 of this document. Only ingredients classified as “hazardous” are listed in Section 2 unless otherwise indicated.

EINECS (EUROPEAN INVENTORY OF EXISTING COMMERCIAL CHEMICAL SUBSTANCES): Components of this product identified by CAS number are on the European Inventory of Existing Commercial Chemical Substances Components.

EC RISK PHRASES:

R20	Harmful by inhalation
R36/37	Irritating to eyes and respiratory system
R40	Limited evidence of a carcinogenic effect

EC SAFETY PHRASES:

S22	Do not breathe dust
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S36	Wear suitable protective clothing

SECTION 16: OTHER INFORMATION

Prolonged exposure to respirable crystalline quartz may cause delayed lung injury (silicosis). Acute or rapidly developing silicosis may occur in heavy exposure conditions.

HIMS RATINGS:

Health:	1	0 = insignificant	3 – high
FLAMMABILITY:	0	1 = slight	4 - extreme
REACTIVITY:	0	2 – moderate	

PERSONAL PROTECTIVE EQUIPMENT: E safety glasses, gloves, dust respirator

REVISION SUMMARY: This MSDS has been revised in the following sections – “Risk & Safety Phrases”