

# MATERIAL SAFETY DATA SHEET

## MSDS

Page 1 of 6  
Date Issued 09/22/1997  
MSDS Ref No RAQU05845  
Date Revised 09/24/1997  
Revision No New MSDS

### Aqua Chem D.E. Filter Aid

---

#### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Aqua Chem D E Filter Aid  
GENERAL USE: Pure diatomaceous earth filter powder.  
CHEMICAL FAMILY: Silica  
GENERIC NAME: Diatomaceous Silica

##### MANUFACTURER

Recreational Water Products  
Aqua Chem  
PO Box 887  
Scottdale, GA 30079  
Customer SERVICE: (800) 949-7946

##### 24 HR. EMERGENCY TELEPHONE NUMBERS

CHEMTREC (Transportation) (800) 424-9300  
Poison Control Center (Medical)(877) 800-5553

---

#### 2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>CAS#</u>	<u>Wt.%</u>
Flux-Calcined Diatomaceous Earth	68855-54-9	100

##### COMMENTS:

Diatomaceous Earth contains Crystalline Silica which is composed of:  
(Quartz, CAS # 14808-60-7 - up to 5%)  
(Cristobalite, CAS # 14464-46-1 - up to 70%)

---

#### 3. HAZARDS IDENTIFICATION

##### EMERGENCY OVERVIEW

##### PHYSICAL APPEARANCE:

White to off-white odorless powder

##### IMMEDIATE CONCERNS.

CAUTION: CONTAINS CRYSTALLINE SILICA which is considered a hazard by inhalation and has been classified as a carcinogen by IARC and NTP. Prolonged breathing of excessive concentration of dust from this product may cause lung damage (silicosis). Causes skin and eye irritation. Avoid contact with eyes, skin or clothing. Wear goggles or safety glasses, rubber gloves and respirator when handling this product. May be irritating to nose and throat. Avoid breathing dust. Remove and wash contaminated clothing before reuse. Do not mix with other chemicals.

##### POTENTIAL HEALTH EFFECTS

##### EYES:

CAUTION Causes eye irritation. Avoid contact with eyes

---

# MATERIAL SAFETY DATA SHEET

## MSDS

Page 2 of 6  
Date-issued 09/22/1997  
MSDS Ref No RAQU05845  
Date-Revised 09/24/1997  
Revision No New MSDS

### Aqua Chem D.E. Filter Aid

---

#### SKIN:

CAUTION: Causes skin irritation. Avoid contact with skin

#### INGESTION:

May be harmful if swallowed

#### INHALATION

May be irritating to nose and throat. Avoid breathing dust or vapors.

#### CHRONIC:

Long term inhalation of crystalline silica dusts may cause lung disease (silicosis)

#### ROUTES OF ENTRY:

Skin Contact, Inhalation, Ingestion, Eye Contact.

---

## 4. FIRST AID MEASURES

#### EYES.

If contact with eyes occurs. Immediately flush with cold water for at least 15 minutes. Then get immediate medical attention

#### SKIN.

If contact with skin: Rinse off excess chemical and flush skin with cold water for at least 15 minutes. If skin irritation develops, seek immediate medical attention

#### INGESTION.

If swallowed. Drink large amounts of water. Avoid Alcohol. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. Call a physician or poison control center immediately.

#### INHALATION

If inhaled. Remove to fresh air. If breathing is difficult, have trained person administer oxygen. If not breathing, give artificial respiration. Call a physician immediately

---

## 5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD. Non-Flammable

#### GENERAL HAZARD:

There are no unusual fire and explosion hazards known

#### EXTINGUISHING MEDIA:

Appropriate to surrounding fire.

---

# MATERIAL SAFETY DATA SHEET

## MSDS

Page 3 of 8  
Date-Issued 09/22/1997  
MSDS Ref No RAQU05845  
Date-Revised 09/24/1997  
Revision No New MSDS

### Aqua Chem D.E. Filter Aid

---

#### FIRE FIGHTING EQUIPMENT

Firefighters should wear full protective clothing and self contained breathing apparatus (SCBA). Thoroughly decontaminate fire fighting equipment including all fire fighting wearing apparel after the incident.

---

#### 6. ACCIDENTAL RELEASE MEASURES

##### SMALL SPILL:

Vacuum clean or wet sweep, avoid dusting, use a dust suppressant when sweeping.

---

#### 7. HANDLING AND STORAGE

##### GENERAL PROCEDURES:

Avoid contact with eyes, skin or clothing. Avoid breathing dust.

##### HANDLING:

Use safe chemical handling procedures for the hazards presented by this material

##### STORAGE:

Keep this product in its original container when not in use. Store in cool, dry, well-ventilated area. Keep this product and all other chemicals out of children's reach

---

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

##### EXPOSURE GUIDELINES:

##### OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)

		EXPOSURE LIMITS					
		OSHA PEL		ACGIH TLV		SUPPLIER OEL	
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Flux-Calcined Diatomaceous Earth	TWA		0.069				

##### ENGINEERING CONTROLS:

General room ventilation plus local exhaust should be used to maintain exposure below TLV.

##### PERSONAL PROTECTIVE EQUIPMENT:

##### EYES AND FACE:

Wear goggles or safety glasses with side shields when handling this product.

---

# MATERIAL SAFETY DATA SHEET

## MSDS

Page 4 of 6  
Date Issued 09/22/1997  
MSDS Ref No RAQU05845  
Date Revised 09/24/1997  
Revision No New MSDS

### Aqua Chem D.E. Filter Aid

---

#### SKIN:

Wear rubber gloves when handling this product. Avoid contact with skin

#### RESPIRATORY:

A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

#### WORK HYGIENIC PRACTICES:

Remove and wash contaminated clothing before reuse.

#### OTHER USE PRECAUTIONS:

Facilities storing or utilizing this material should be equipped with an eyewash and safety shower

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Solid  
ODOR: Odorless  
APPEARANCE: Powder  
COLOR: White to off-white  
SOLUBILITY IN WATER: Slight  
SPECIFIC GRAVITY: 2.35 (water=1)

---

## 10. STABILITY AND REACTIVITY

#### CONDITIONS TO AVOID:

High temperature. Poor ventilation. Contamination. Moisture/high humidity.

#### STABILITY:

This product is stable under normal conditions

#### POLYMERIZATION:

Hazardous polymerization will not occur under normal conditions.

#### HAZARDOUS DECOMPOSITION PRODUCTS:

Reacts with hydrofluoric acid to form toxic silicon tetrafluoride gas.

#### INCOMPATIBLE MATERIALS:

Hydrofluoric acid. Other swimming pool/spa chemicals in their concentrated forms.

---

## 11. TOXICOLOGICAL INFORMATION

#### EYE EFFECTS:

This product is an eye irritant.

---

# MATERIAL SAFETY DATA SHEET

MSDS

Page 5 of 6  
Date Issued 09/22/1997  
MSDS Ref No RAQU05845  
Date Revised 09/24/1997  
Revision No New MSDS

## Aqua Chem D.E. Filter Aid

---

### SKIN EFFECTS.

This product is a skin irritant.

### CARCINOGENICITY

Crystalline silica has been classified as a probable human carcinogen (Group 2A) by IARC, a unit of the World Health Organization.

Quartz (CAS # 14808-60-7) and Cristobalite (CAS # 14464-46-1), components of this product, are listed as anticipated carcinogens by NTP.

This product is not listed as a carcinogen by OSHA.

---

## 12. ECOLOGICAL INFORMATION

### ECOTOXICOLOGICAL INFORMATION:

This product may be toxic to fish and aquatic organisms. Keep product from entering waterways and watersheds.

---

## 13. DISPOSAL CONSIDERATIONS

### PRODUCT DISPOSAL:

Not considered as hazardous wastes by RCRA (40 CFR Part 261) Place waste and spillage in closed containers. Dispose of if approved landfill.

---

## 14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Not Regulated.

OTHER SHIPPING INFORMATION: Filter Aids, Diatomaceous, Earth Mixed, In Boxes (NMFC 69000).

---

## 15. REGULATORY INFORMATION

### UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

313 REPORTABLE INGREDIENTS: This product or its components are not listed

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

CERCLA REGULATORY: This product or its components are not listed

---

# MATERIAL SAFETY DATA SHEET

## MSDS

Page 6 of 6  
Date-Issued 09/22/1997  
MSDS Ref No RAQL05845  
Date-Revised 09/24/1997  
Revision No New MSDS

### Aqua Chem D.E. Filter Aid

---

#### TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA REGULATORY: This product or its components are not subject to export notification.  
TSCA STATUS: This product or its components are listed on the TSCA Inventory

#### OSHA HAZARD COMM. RULE:

Product is hazardous by definition of the Hazardous Communication Standard.

#### FIFRA (FEDERAL INSECTICIDE, FUNGICIDE, AND RODENTICIDE ACT):

This product is not a registered pesticide.

#### STATE REGULATIONS

##### PROPOSITION 65 STATEMENT:

NOTICE: This product contains crystalline silica, a chemical known to the State of California to cause cancer.

---

## 16. OTHER INFORMATION

#### REVISION SUMMARY

New MSDS

#### NFPA CODES

HEALTH: 1 FIRE: 0 REACTIVITY: 0

#### HMS CODES

HEALTH: \* 1 FIRE: 0 REACTIVITY: 0 PROTECTION: E

#### MANUFACTURER DISCLAIMER:

IMPORTANT: This information is given without a warranty or guarantee. No suggestions for use are intended or shall be construed as a recommendation to infringe any existing patents or violate any Federal, State or local laws. Safe handling and use is the responsibility of the customer. Read the label before using this product. This information is true and accurate to the best of our knowledge.

---