

Material Safety Data Sheet

SECTION 1 – CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name: AQUIT™

Chemical Family: Aromatic Ketone

Manufacturer's Name: Siemens Water Technologies Corp.

Address: 2650 Tallevast Road, Sarasota, FL 24243

Product/Technical Information Phone Number: 1.941.355.2971

Medical/Handling Emergency Phone Number: CHEMTREC 1.800.424.9300
24 hours a day

Transportation Emergency Phone Number: CHEMTREC 1.800.424.9300
24 hours a day

Issue Date: March 17, 2000

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SECTION 2 – COMPOSITION INFORMATION

<u>Chemical Name</u>	<u>Percent by Weight</u>	<u>CAS#</u>
Anthraquinone	50%	84-65-1
Water	48%	7732-18-5
Inert Ingredients	2%	

SECTION 3 – HAZARDS IDENTIFICATION

Appearance & Odor: Light tan slurry, weak aromatic odor.

Emergency Overview: Anthraquinone may cause skin and eye irritation and sensitization. It may be harmful by inhalation, ingestion or skin absorption.

Fire & Explosion Hazards: Minimal.

Primary Route(s) of Exposure: Skin contact and eye contact.

Inhalation – Acute Effects: Anthraquinone may be harmful by inhalation.

Skin Contact – Acute Effects: On the basis of animal toxicity testing we expect this product to be non-irritating to the skin. However, neat Anthraquinone may cause skin irritation and skin allergy and may be harmful by skin absorption. If allergy develops, very low future exposure can cause itching and a skin rash.

Eye Contact – Acute Effects: On the basis of animal toxicity testing we expect this product to be non-irritating to the eyes. However, neat Anthraquinone may cause eye irritation.

Ingestion – Acute Effects: May cause a laxative effect and produce greenish or bluish colored urine. On the basis of animal toxicity testing we expect this product to be essentially non-toxic by ingestion. However, neat Anthraquinone may be harmful by ingestion. Severe poisoning by Anthraquinone may cause seizures and coma.

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SECTION 4 – FIRST AID MEASURES

Inhalation First Aid: Remove affected person from area to fresh air and have qualified person provide oxygen if breathing is difficult. Give artificial respiration ONLY if breathing has stopped. Obtain medical attention if individual shows symptoms of exposure.

Skin Contact First Aid: Immediately remove clothing from affected area and wash skin vigorously with flowing water and soap. Clothing must be washed before reuse. DO NOT instruct person to neutralize affected skin area. Obtain medical attention if irritation occurs.

Eye Contact First Aid: Immediately irrigate eyes with flowing water continuously for 15-20 minutes while holding eyes open. Contacts should be removed before or during flushing. DO NOT instruct person to neutralize. OBTAIN MEDICAL ATTENTION IMMEDIATELY.

Ingestion First Aid: If victim is alert and not convulsing rinse mouth with water and give water to drink. If spontaneous vomiting occurs, have affected person lean forward with head down to avoid breathing in of vomitus. Rinse mouth again and give more water to drink. OBTAIN MEDICAL ATTENTION IMMEDIATELY.

Medical Conditions Aggravated: None known

Note to Physician: Treat patient symptomatically.

SECTION 5 – FIRE FIGHTING MEASURES

Flash Point/Method: Not applicable.

Auto Ignition Temperature: Not applicable.

Upper/Lower Explosion Limits: Not applicable.

Extinguishing Media: Water Spray. Foam. Dry Chemicals. CO₂. Halon.

Fire Fighting Procedures: Wear self-contained breathing apparatus. Wear full protective equipment. Use water spray. Cool tank/container with water spray. If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase area contaminated.

Fire & Explosion Hazards: Minimal.

Hazardous Products of Decomposition and/or Combustion: Fires involving Anthraquinone may produce toxic fumes of carbon monoxide and carbon dioxide

NFPA Ratings:

HEALTH-1 FLAMMABILITY-1 REACTIVITY- 0 OTHER-None

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Spill/Leak Procedures: Mop up and containerize, or dilute to acceptable level with water.

Cleanup: Recover for recycling or landfill. Triple rinse containers with water, then recycle or landfill.

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Regulatory Requirements: All disposal methods must be in compliance with all Federal, State, Local, and Provincial laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.

Disposal: DO NOT DUMP ON THE GROUND OR INTO ANY BODY OF WATER. All disposal methods must be in compliance with all Federal, State, Local, and Provincial laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.

SECTION 7 – HANDLING AND STORAGE

Handling: Rinse containers with water only.

Storage: Store in dry place at ambient temperatures apart from food, beverage, and excessive heat. Reseal containers immediately after use.

General Comments: Wash thoroughly after handling, immediately remove and dispose of any spillage. Immediately rinse contaminated clothing thoroughly with water.

SECTION 8 – PERSONAL PROTECTION/ EXPOSURE CONTROL

Respiratory Protection: None required under normal use conditions.

Skin Protection: Wear rubber protective gloves and other protective clothing as appropriate to prevent skin contact.

Eye Protection: Safety glasses or goggles are recommended.

Ventilation Protection: Adequate general or mechanical exhaust ventilation.

Other Protection: Safety showers, with quick opening valves which stay open, and eye wash fountains, or other means of washing the eyes with a gentle flow of cool to tepid tap water should be readily available in all areas where this material is handled or stored. Water should be supplied through insulated and heat-traced lines to prevent freeze-ups in cold weather. Employees should wash their hands and face before eating, drinking, or using tobacco products. Educate and train employees on the safe use and handling of this product.

Exposure Limits:

No occupational exposure limits have been established for this material.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance & Odor: Light tan solution, weak aromatic odor.

Vapor Pressure: Not applicable

Vapor Density (Air=1): Not applicable

Boiling Point: Not applicable

Melting Point: Not applicable

Specific Gravity: at 20 C 1.20

Solubility in Water: Miscible

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Volatile Percentage: (water) 48

pH: 6.8-7.5

Flash Point/method: Not applicable

Auto Ignition Temperature: Not applicable

Upper/Lower Explosion Limits: Not applicable **Other:** None

SECTION 10 – STABILITY AND REACTIVITY

Stability: This material is stable under normal use conditions.

Incompatibilities: Anthraquinone is incompatible with strong oxidizing agents.

Polymerization: Hazardous polymerization will not occur.

Decomposition: Thermal decomposition >518° F may produce potentially toxic and/or hazardous gases including carbon dioxide and carbon monoxide.

Conditions to Avoid: Avoid evaporation to dryness; heating to >518° F.

SECTION 11 – TOXICOLOGICAL INFORMATION

Inhalation – Acute: Neat Anthraquinone may be harmful by inhalation.

Inhalation – Chronic: No chronic inhalation effects for this product are known.

Skin Contact – Acute: This product is non-irritating to rabbit skin. Neat Anthraquinone may cause skin irritation and skin allergy and may be harmful by skin absorption. If allergy develops, very low future exposure can cause itching and a skin rash.

Skin Contact – Chronic: No chronic dermal effects for this product are known.

Eye Contact – Acute: This product is non-irritating to rabbit eyes. Neat Anthraquinone may cause eye irritation.

Ingestion – Acute: The acute LD50 (rat) for this product is 1,000 mg/kg. The oral LDLo (rat) for neat Anthraquinone is 15 gm/kg. Severe poisoning by Anthraquinone may cause seizures and coma.

Ingestion – Chronic: No chronic ingestion effects for this product are known.

Carcinogenicity/Mutagenicity: No carcinogenic properties of this product are known. The mutagenic effects of Anthraquinone are as follows:

Mutation Test / Lowest Dosage

Mutation in Microorganisms-Salmonella typhimurium - 2 ug/plate

DNA Damage-Mouse-Intraperitoneal - 250 mg/kg

Microsomal Mutagenicity Assay- Salmonella typhimurium - 333 ug/plate

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Reproductive Effects: No reproductive effects of this product are known.

Neurotoxicity: No neurotoxic effects of this product are known.

Other Effects: The intraperitoneal LD50 (rat) for Anthraquinone is 3500 mg/kg.

Target Organs: Target organs include the skin and eyes.

SECTION 12 – ECOLOGICAL INFORMATION

Aquatic Toxicity LC30: 5,300 mg/l (Pimephales promelas)

SECTION 13 – DISPOSAL CONSIDERATIONS

Contains no hazardous substances as listed in 40 CFR 302.

Material that cannot be used, or reprocessed for use, and empty containers should be disposed of in accordance with all applicable regulations. Product containers should be thoroughly emptied before disposal. Generators of waste material are required to evaluate all waste for compliance with RCRA and any local disposal procedures and regulations. NOTE: State and local regulations may be more stringent than federal regulations.

SECTION 14 – TRANSPORTATION INFORMATION

DOT Shipping Description: Non-Regulated

SECTION 15 – REGULATORY INFORMATION

CERCLA SECTION 103 (40CFR302.4): No RQ: None

SARA SECTION 302 (40CFR355.30): No

SARA SECTION 304 (40CFR355.40): No

SARA SECTION 313 (40CFR372.65): No

SARA HAZARD CATEGORIES, SARA SECTIONS 311/312 (40CFR370.21):

ACUTE: Yes CHRONIC: No FIRE: Yes REACTIVE: No SUDDEN RELEASE: No

OSHA PROCESS SAFETY (29CFR1910.119): No

CALIFORNIA PROPOSITION 65: No

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of the MSDS may also be applicable for state requirements. For details on regulatory requirements you should contact the appropriate agency in your state. New Jersey: Anthraquinone is contained on the New Jersey Hazardous Substance List, NJ1

Pennsylvania: Anthraquinone is considered Pennsylvania Non-hazardous, PA3

California Proposition 65: To the best of our knowledge, this product contains no levels of listed substances, which the state of California has found to cause cancer, birth defects, or other reproductive effects.

Massachusetts Substance List (MSL): Hazardous substances and extraordinary hazardous substances on the MSL must be identified when present in products. To the best of our

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knowledge, this product contains no substances at a level which could require reporting under the statute.

SECTION 16 – OTHER INFORMATION

Disclaimer: The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the user thereof. It is the buyer's responsibility to ensure that its activities comply with federal, state, provincial and local laws.

Revision Indicator: Legal Entity name change 04/01/11