

## Material Safety Data Sheet

### SECTION 1 – CHEMICAL PRODUCT AND COMPANY INFORMATION

**Product Name:** VA FLOC 808

**Manufacturer's Name:** Siemens Industry, Inc. - Water Technologies Business Unit

**Address:** 2650 Tallevast Road, Sarasota, FL 34243

**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:** December 2010

**Revision Number / Date:** Rev 1 April 2011

### SECTION 2 – COMPOSITION INFORMATION

<u>Chemical Name</u>	<u>Percent by Weight</u>	<u>CAS#</u>
Cationic polymer in solution		

### SECTION 3 – HAZARDS IDENTIFICATION

**Appearance & Odor:** Amber in color with slight odor

**Emergency Overview:** Spills produce extremely slippery surfaces.

**Fire & Explosion Hazards:** None

**Primary Route(s) of Exposure:** Eye exposure

**Eye Contact – Acute Effects:** The product may cause mild eye irritation.

### SECTION 4 – FIRST AID MEASURES

**Inhalation First Aid:** No hazards which require special first aid measures.

**Skin Contact First Aid:** Wash with water and soap as a precaution. In case of persistent skin irritation, consult a physician.

**Eye Contact First Aid:** Wash immediately and thoroughly with running water, keeping eyelids raised, for 15 - 20 minutes. In case of persistent eye irritation OBTAIN MEDICAL ATTENTION.

**Ingestion First Aid:** The product is not considered toxic based on studies on laboratory animals.

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### SECTION 5 – FIRE FIGHTING MEASURES

**Flash Point:** NA

**Auto ignition Temperature:** NA

**Decomposition temperature:** Not available

**Upper/Lower Explosion Limits:** NA

**Extinguishing Media:** Use water, water spray, foam, dry powder, or Carbon dioxide (CO<sub>2</sub>).

**Fire Fighting Procedures:** As with any fire, fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

**Fire & Explosion Hazards:** None

**Hazardous Products of Decomposition and/or Combustion:** Burning of the dried material can produce: hydrogen chloride gas, nitrogen oxides (NO<sub>x</sub>), carbon oxides.

**NFPA Ratings:** HEALTH - 1 FLAMMABILITY - 1 REACTIVITY - 0

### SECTION 6 – ACCIDENTAL RELEASE MEASURES

Spilled material may cause a slip hazard. DO NOT FLUSH WITH WATER. Spilled material should be adsorbed with an inert material and scooped up. If liquid has spilled in large quantities clean up promptly by scoop or vacuum. After cleaning flush away traces with water.

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:** Avoid contact with skin, eyes, and clothing. When preparing the working solution ensure there is adequate ventilation. Do not breathe vapors or spray mist. Do not smoke when using this product. Wash hands before breaks and at the end of workday. Handle in accordance with good industrial hygiene and safety practice.

**Storage:** Keep in a dry, cool place (0 - 35 °C). Keep away from heat and sources of ignition. Freezing will affect the physical condition and may damage the material.

### SECTION 8 – PERSONAL PROTECTION/ EXPOSURE CONTROL

**Respiratory Protection:** Use local exhaust if misting occurs. Natural ventilation is adequate in absence of mists.

**Skin Protection:** Rubber gloves. Wear chemical resistant apron or protective suit if splashing or repeated contact with solution is likely.

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**Eye Protection:** Safety glasses with side-shields. Do not wear contact lenses where this product is used.

**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 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.

### SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

**Appearance & Odor:** Amber in color with slight odor

**pH:** 5 - 7

**Specific Gravity:** 1.08 - 1.09

**Melting point/range:** Not applicable

**Freezing point (°C):** -3

**Water solubility:** Completely miscible

**LogPow:** 0

### SECTION 10 – STABILITY AND REACTIVITY

**Conditions to avoid:** Stable under normal conditions. Avoid overheating and keep away from ignition sources.

**Substances to avoid:** Oxidizing agents may cause exothermic reactions.

**Hazardous decomposition products:** No decomposition if stored and applied as directed. Burning of the dried material can produce: hydrogen chloride gas, nitrogen oxides (NO<sub>x</sub>), carbon oxides.

### SECTION 11 – TOXICOLOGICAL INFORMATION

#### Acute toxicity

**Inhalation:** The product is not expected to be toxic by inhalation.

**Eyes:** May cause slight eye irritation.

**Sensitization:** The results of testing on human volunteers (Human Insult Patch Test) showed this material to be non-sensitizing.

**Chronic toxicity:** A one-year feeding study on rats did not reveal adverse health effects. A one-year feeding study on dogs did not reveal adverse health effects.

#### Other information:

Not mutagenic in AMES Test

Not mutagenic in micronucleus test on mice

Not teratogenic, NOEL = 25 mg/kg

A multi-generation study in rats showed no reproductive/developmental toxicity at a dose of 125 mg/kg/day

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### SECTION 12 – ECOLOGICAL INFORMATION

#### Aquatic toxicity

**Toxicity to fish:** LC50/96 hours > 10 mg/l (OECD 203).

**Toxicity to daphnia:** EC50/48 hours > 10 mg/l (OECD 202).

**Toxicity to algae:** Algal inhibition tests are not appropriate. The flocculation characteristics of the product interfere directly in the test medium preventing homogenous distribution which invalidates the test.

#### Environmental fate

**Persistence and degradability:** Not readily biodegradable.

**Hydrolysis:** Does not hydrolyse.

**LogPow:** 0

**Bioaccumulation:** Does not bioaccumulate.

#### Other ecological information:

The effects of this product on aquatic organisms are rapidly and significantly mitigated by the presence of dissolved organic carbon in the aquatic environment.

### SECTION 13 – DISPOSAL CONSIDERATIONS

Material that cannot be used or chemically reprocessed 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.

Empty Containers: Rinse empty containers with water. Can be landfilled or incinerated, when in compliance with local, state, and federal regulations.

### SECTION 14 – TRANSPORTATION INFORMATION

**DOT Shipping Description:** Not regulated for domestic transportation.

**IMDG/IMO:** Not classified as dangerous in the meaning of IMO/IMDG regulations.

**ICAO/IATA:** Not classified as dangerous in the meaning of ICAO/IATA regulations.

### 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

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

ACUTE: No

CHRONIC: No

FIRE: No

REACTIVE: No

SUDDEN RELEASE: No

OSHA PROCESS SAFETY (29CFR1910.119): No

CALIFORNIA PROPOSITION 65: No

**State Regulations:** Not regulated.

### International Inventories

**European Union (EINECS/ELINCS):** All components of this product are either listed on the inventory or are exempt from listing.

**USA (TSCA):** All components of this product are either listed on the inventory or are exempt from listing.

**Canada (DSL):** All components of this product are either listed on the inventory or are exempt from listing.

**Australia (AICS):** All components of this product are either listed on the inventory or are exempt from listing.

**Japan (ENCS):** All components of this product are either listed on the inventory or are exempt from listing.

**Korea (ECL):** All components of this product are either listed on the inventory or are exempt from listing.

### 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