

Material Safety Data Sheet

SECTION 1 – CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name: VA Flocc 4494

Chemical Family: Cationic Polymer in
Water-in-Oil Emulsion

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: April 2006

Revision Number / Date: Rev 2 April 2011

SECTION 2 – COMPOSITION INFORMATION

<u>Chemical Name</u>	<u>Percent by Weight</u>	<u>CAS#</u>
Petroleum Distillate	20 – 25	64742-47-8
Surfactants	4 – 8	Mixture
Water	Balance	7732-18-5

SECTION 3 – HAZARDS IDENTIFICATION

Appearance & Odor: Odorless, opaque, off-white emulsion

Emergency Overview: Causes eye and skin irritation. Mist may be harmful if inhaled. Contact with water may form a gel which is very slippery.

Fire & Explosion Hazards: No unusual hazards. Use foam, dry chemical, or water spray to extinguish fire.

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

Inhalation – Acute Effects: Irritating to eyes and respiratory tract in high concentrations. Repeated and prolonged overexposure to oil mists may result in droplet deposition, oil granuloma formation, inflammation, and increased incidence of infection.

Skin Contact – Acute Effects: Low order of toxicity. Irritating.

Eye Contact – Acute Effects: Irritating and may injure eye tissue if not removed promptly.

Ingestion – Acute Effects: Low order of toxicity. Small amounts of the liquid aspirated into the respiratory system during ingestion, or from vomiting, may cause bronchopneumonia or pulmonary edema.

Material Safety Data Sheet

SECTION 4 – FIRST AID MEASURES

Inhalation First Aid: Remove affected person to fresh air and provide oxygen if breathing is difficult. Give artificial respiration ONLY if breathing has stopped and give CPR ONLY if there is no breathing and no pulse. Obtain medical attention.

Skin Contact First Aid: Immediately remove clothing from affected area and wash skin for 15 minutes with flowing water. Clothing should be discarded or washed before reuse.

Eye Contact First Aid: Immediately irrigate eyes with flowing water continuously for 15 minutes while holding eyes open. Contacts should be removed before or during flushing. Obtain immediate medical attention.

Ingestion First Aid: DO NOT induce vomiting. If spontaneous vomiting occurs, have affected person lean forward with head down to maintain the breathing passage open. Obtain prompt medical attention.

Medical Conditions Aggravated: No data available.

Note to Physician: This product is a low order of toxicity.

SECTION 5 – FIRE FIGHTING MEASURES

Flash Point/Method: > 200° F Setaflash CC

Auto Ignition Temperature: Not established

Upper/Lower Explosion Limits: 1.4 – 8.1 % at 25⁰ C (for petroleum distillate component)

Extinguishing Media: Use foam, dry chemical, or water spray to extinguish fire.

Fire Fighting Procedures: Use water spray to cool fire exposed surfaces and to protect personnel. Isolate 'fuel' supply from fire. Firefighters should wear full protective clothing and positive pressure self-contained breathing apparatus. Contact with water may form a gel which is extremely slippery and difficult to clean up.

Fire & Explosion Hazards: No unusual hazards.

Hazardous Products of Decomposition and/or Combustion: Carbon monoxide, oxides of nitrogen.

NFPA Ratings: HEALTH - 2 FLAMMABILITY - 1 REACTIVITY - 0

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Spilled product should be scooped up as much as possible and the remaining thin layer absorbed with a solid material such as a sweeping compound. Washing the area should only be attempted after most of the polymer has been removed. Do not place spill materials back in their original container.

Material Safety Data Sheet

DO NOT DUMP INTO ANY SEWERS, 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: Do not get in eyes, on skin, or clothing. Do not taste or swallow. Avoid breathing mists or fumes. Do not handle with bare hands. Mix well before using. Upon standing product may stratify (as noted by a clear upper layer of oil). Mild agitation will restore uniformity.

Storage: Store in closed, properly labeled tanks or containers. Store in a cool, well ventilated area away from incompatible materials. DO NOT pressurize, cut, heat, or weld containers. Empty product containers may contain product residue. DO NOT reuse empty containers without commercial cleaning or reconditioning. DO NOT use aluminum, copper, or mild steel tanks, pumps, or piping with this product. Store in glass, stainless steel, plastic, or epoxy lined containers.

Shelf Life: At least six months in unopened containers when stored at the recommended storage temperature. During prolonged storage, this product may require periodic mixing or circulation.

Storage Temperature: 40° F minimum to 90° F maximum. Short term exposure to higher or lower temperatures will not normally harm this product. If frozen, it should be warmed to 40° F - 90° F and agitated before use.

SECTION 8 –PERSONAL PROTECTION/ EXPOSURE CONTROL

Respiratory Protection: None required under normal use conditions. When engineering, work practice, or other means of exposure reduction are not adequate, NIOSH approved respirators with mist canisters may be necessary to prevent overexposure by inhalation.

Skin Protection: Wear chemical resistant gloves and long sleeves. Wear a rubber apron if splashing is likely.

Eye Protection: Chemical goggles. Wear a face shield if splashing or aerosol generation is likely.

Ventilation Protection: Ventilations should be provided to control worker exposures and prevent health risk and as necessary to reduce, prevent, and control aerosol generation.

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.

Exposure Limits: Exposure limits have not been established for this product. However, for petroleum distillate, a component, the petroleum distillate supplier recommends:

OEL TWA = 165 ppm

Material Safety Data Sheet

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance & Odor: Odorless, opaque, off-white emulsion

Boiling Point: about 212° F initial

Freezing Point: about 0° F

Specific Gravity: 1.019-1.049 at 77°

Solubility in Water: Soluble with vigorous agitation

Volatile Percentage: 24% (calculated)

pH: Not established

Viscosity: 500 – 1000 cP at 81° F, Brookfield RVT (sp # 3, 50 rpm)

SECTION 10 – STABILITY AND REACTIVITY

Stability: Stable

Incompatibilities: Strong oxidizing agents.

Hazardous Polymerization: Will not occur

Hazardous Decomposition Products: Carbon monoxide and carbon dioxide

Conditions to Avoid: Strong oxidizing agents.

SECTION 11 – TOXICOLOGICAL INFORMATION

Toxicological Data: No data are available for this product or its components.

Potential Effects of Skin Contact: In animal studies, the undiluted surfactant in this product caused the development of inflammatory changes in the animal's lungs when in sustained occluded contact with the skin.

Potential Effects on Ingestion: At high oral doses, the petroleum distillate in this product caused reversible change in the liver and kidneys of male rats.

Carcinogenicity/Mutagenicity: This product or any component at a concentration of 0.1% or greater is not listed by NTP, IARC, OSHA, EPA or any other authority as a carcinogen. No data available for mutagenicity

Reproductive Effects: No data available.

Neurotoxicity: No data available.

Other Effects: No data available.

SECTION 12 – ECOLOGICAL INFORMATION

No data available.

Material Safety Data Sheet

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: Empty containers retain product residue including liquid and vapor. Although the residue is a low fire hazard, it can burn upon heating to temperatures at or above the flashpoint and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, flames, sparks, static electricity, or other sources of ignition as they may explode and cause injury or death. Empty drums should be completely drained and returned to a drum reconditioner or properly disposed.

SECTION 14 – TRANSPORTATION INFORMATION

DOT Shipping Description: Not regulated.

SECTION 15 – REGULATORY INFORMATION

OSHA Hazard Communication: Health hazard

CERCLA Hazardous Substance: no

RQ: no

SARA Hazard Categories:

Acute Health Hazard: yes
Chronic Health Hazard: no
Fire Hazard: no
Pressure Release Hazard: no
Reactivity Hazard: no:

OSHA Process Safety: no:

California Proposition 65: no

Clean Water Act: yes. This product is considered an oil under Section 311 and the Oil Pollution Act of 1990. Discharges that produce a visible sheen on surface waters or on waterways or sewers that lead to surface water must be reported to the National Response Center, 800-424-8802.

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