MATERIAL SAFETY DATA SHEET

Product(s): ACCO PolyFloc-C

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product
Product Name: ACCO PolyFloc-C
Synonyms: None
Product Description: Polyquaternary amine in water
Chemical Family: Cationic polyamine
Molecular Formula: Mixture
Intended/Recommended Use: Flocculant
Issue Date: March 24, 2011

Company Identification
Supplier
ACCO Unlimited Corporation
5300 NW 55 Avenue
Johnston, IA 50131
(515) 278-0487

FOR CHEMICAL EMERGENCY, CALL CHEMTREC (24 HOURS): 1-800-424-9300

SECTION 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

APPEARANCE AND ODOR:
- Color: colorless to amber
- Appearance: liquid
- Odor: amine

STATEMENTS OF HAZARD: IMPORTANT! SPILLS OF THIS PRODUCT ARE VERY SLIPPERY.

POTENTIAL HEALTH EFFECTS
EFFECTS OF EXPOSURE:
The estimated acute oral (rat) LD50, acute dermal (rabbit) LD50 and 4-hour inhalation LC50 (rat) values for this material are >5,000 mg/kg, >2,000 mg/kg and >2,500 ppm, respectively. Sub-chronic feeding studies in rats and dogs did not produce any significant adverse effects when the active ingredient of this product was evaluated at a dietary concentration of 1 or 4 percent.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

OSHA REGULATED COMPONENTS
No Permissible Exposure Limits (PEL/TLV) have been established by OSHA or ACGIH.

SECTION 4: FIRST AID MEASURES

Ingestion:
Material is not expected to be harmful by ingestion. No specific first aid measures are required.

Skin Contact:
Wash immediately with plenty of water and soap.

Eye Contact:
Rinse immediately with plenty of water for at least 15 minutes.

Inhalation:
Remove to fresh air. Material is not expected to be harmful if inhaled.

SECTION 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Use water spray, carbon dioxide or dry chemical.

Protective Equipment:
Firefighters, and others exposed, wear self-contained breathing apparatus.

Special Hazards:
Keep containers cool by spraying with water if exposed to fire.

Mechanical/Static Sensitivity Statements: None.
SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Refer to Section 8 (Exposure Controls/Personal Protection) for appropriate personal protective equipment.

Methods for Cleaning Up: Spilled material should be absorbed onto an inert material and scooped up. Product may cause a slip hazard. If slipperiness remains, apply more dry-sweeping compound. Flush spill area thoroughly with water and scrub to remove residue.

SECTION 7: HANDLING AND STORAGE

HANDLING
Precautionary Measures: Spills should be scooped up or wiped up immediately, and the spill area flushed with water.
Special Handling Statements: None.

STORAGE
To avoid product degradation and equipment corrosion, do not use iron, copper or aluminum containers or equipment.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Measures: Engineering controls are not usually necessary if good hygiene practices are followed.

Respiratory Protection: None recommended.

Eye Protection: Wear eye/face protection.

Skin Protection: Wear impermeable gloves. Avoid skin contact.

Additional Advice: Before eating, drinking or smoking, wash face and hands thoroughly with soap and water.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Color</td>
<td>colorless to amber</td>
</tr>
<tr>
<td>Appearance</td>
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</tr>
<tr>
<td>Odor</td>
<td>amine</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>~100°C (212°F)</td>
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<tr>
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<tr>
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<tr>
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<tr>
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<td>Evaporation Rate</td>
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<tr>
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<tr>
<td>Decomposition Temperature</td>
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<tr>
<td>Partition coefficient</td>
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<tr>
<td>Odor Threshold</td>
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</tbody>
</table>

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable.

Conditions To Avoid: None known.

Polymerization: Will not occur.

Conditions To Avoid: None known.

Materials To Avoid: Contact with copper, aluminum, or iron may cause corrosion and/or product degradation. Strong oxidizing agents.

Hazardous Decomposition Products: Ammonia (NH3); Carbon dioxide; Carbon monoxide (CO); Hydrogen chloride; Oxides of nitrogen

SECTION 11: TOXICOLOGICAL INFORMATION

Toxicological information for the product is found under Section 2 (Hazards Identification).

Toxicological information on the regulated components of this product is as follows:

This product contains no OSHA regulated (hazardous) components.

This product contains no WHMIS regulated (hazardous) components.

California Proposition 65 Warning (applicable in California only) - This product contains (a) chemical(s) known to the State of California to cause cancer and birth defects or other reproductive harm.
SECTION 12: ECOLOGICAL INFORMATION

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. All ecological information provided was conducted on a structurally similar product. Acute toxicity tests conducted using environmentally representative water gave the following results:

ALGAE TEST RESULTS
Test: Growth Inhibition (OECD 201)  
Duration: 72 hr.  
Species: Green Algae (Selenastrum capricornutum)  
> 10 – 11 mg/l IC50

FISH TEST RESULTS
Test: Acute toxicity, freshwater (OECD 203)  
Duration: 96 hr.  
Species: Zebra Fish (Brachydanio rerio)  
> 10 – 100 mg/l LC50

INVERTEBRATE TEST RESULTS
Test: Acute Immobilization (OECD 202)  
Duration: 48 hr.  
Species: Water Flea (Daphnia magna)  
> 10 – 100 mg/l EC50

DEGRADATION
Test: CO2 Evolution: Modified Sturm (OECD 301B)  
Duration: 28 day  
Procedure: Ready biodegradability. The large polymer size is incompatible with transport across biological membranes and < 70% diffusion; the bioconcentration factor is therefore considered to be zero. This material is not readily biodegradable (OECD 301B).

SECTION 13: DISPOSAL CONSIDERATIONS

The information on RCRA waste classification and disposal methodology provided below applies only to the product, as supplied. If the material has been altered or contaminated, or it has exceeded its recommended shelf life, the guidance may be inapplicable. Hazardous waste classification under federal regulations (40 CFR Part 261 et seq) is dependent upon whether a material is a RCRA “listed hazardous waste” or has any of the four RCRA “hazardous waste characteristics.” Refer to 40 CFR Part 261.33 to determine if a given material to be disposed of is a RCRA “listed hazardous waste”; information contained in Section 15 of this MSDS is not intended to indicate if the product is a “listed hazardous waste.” RCRA Hazardous Waste Characteristics: There are four characteristics defined in 40 CFR Section 261.21-61.24: Ignitability, Corrosivity, Reactivity, and Toxicity. To determine Ignitability, see Section 9 of this MSDS (flash point). For Corrosivity, see Sections 9 and 14 (pH and DOT corrosivity). For Reactivity, see Section 10 (incompatible materials). For Toxicity, see Section 3 (composition). Federal regulations are subject to change. State and local requirements, which may differ from or be more stringent than the federal regulations, may also apply to the classification of the material if it is to be disposed. The Company encourages the recycle, recovery and reuse of materials, where permitted, as an alternate to disposal as a waste. The Company recommends that organic materials classified as RCRA hazardous wastes be disposed of by thermal treatment or incineration at EPA approved facilities. The Company has provided the foregoing for information only; the person generating the waste is responsible for determining the waste classification and disposal method.

SECTION 14: TRANSPORT INFORMATION

This section provides basic shipping classification information. Refer to appropriate transportation regulations for specific requirements.

US DOT
Proper Shipping Name: Not applicable/Not regulated  
Hazardous Substances:  
Not applicable

TRANSPORT CANADA
Proper Shipping Name: Not applicable/Not regulated
CONTINUED SECTION 14: TRANSPORT INFORMATION

ICAO / IATA
Proper Shipping Name: Not applicable/Not regulated
Packing Instructions/Maximum Net Quantity Per Package:
Passenger Aircraft: -
Cargo Aircraft: -

IMO
Proper Shipping Name: Not applicable/Not regulated

SECTION 15: REGULATORY INFORMATION

INVENTORY INFORMATION

United States (USA): All components of this product are included on the TSCA Chemical Inventory or are not required to be listed on the TSCA Chemical Inventory.

Canada: All components of this product are included on the Domestic Substances List (DSL) or are not required to be listed on the DSL.

European Union (EU): All components of this product are included on the European Inventory of Existing Chemical Substances (EINECS) or are not required to be listed on EINECS.

Australia: All components of this product are included in the Australian Inventory of Chemical Substances (AICS) or are not required to be listed on AICS.

China: All components of this product are included on the Chinese inventory or are not required to be listed on the Chinese inventory.

Japan: All components of this product are included on the Japanese (ENCS) inventory or are not required to be listed on the Japanese inventory.

Korea: All components of this product are included on the Korean (ECL) inventory or are not required to be listed on the Korean inventory.

Philippines: All components of this product are included on the Philippine (PICCS) inventory or are not required to be listed on the Philippine inventory.

OTHER ENVIRONMENTAL INFORMATION
The following components of this product may be subject to reporting requirements pursuant to Section 313 of CERCLA (40 CFR 372), Section 12(b) of TSCA, or may be subject to release reporting requirements (40 CFR 307, 40 CFR 311, etc.). See Section 13 for information on waste classification and waste disposal of this product. This product does not contain any components regulated under these sections of the EPA.

PRODUCT HAZARD CLASSIFICATION UNDER SECTION 311 OF SARA
• Not applicable

SECTION 16: OTHER INFORMATION

NFPA Hazard Rating (National Fire Protection Association)
Health: 0 - Materials that under emergency conditions, would offer no hazard beyond that of ordinary combustible materials.
Fire: 1 - Materials that must be preheated before ignition can occur.
Reactivity: 0 - Materials that in themselves are normally stable, even under fire exposure conditions.

The information contained herein is provided in good faith and is believed to be correct as of the date hereof. However, ACCO Unlimited Corporation makes no representation as to the comprehensiveness or accuracy of the information. It is expected that individuals receiving the information will exercise their independent judgment in determining its appropriateness for a particular purpose. Accordingly, ACCO Unlimited Corporation will not be responsible for damages of any kind resulting from the use of or reliance upon such information. No representations, or warranties, either express or implied, or merchantability fitness for a particular purpose or of any other nature are made hereunder with respect to the information set forth herein or to the product to which the information refers.