EXHIBIT S115 TO DECLARATION OF STEPHEN G. SCHWARZ IN SUPPORT OF PLAINTIFFS' MOTION FOR CLASS CERTIFICATION

Material Safety Data Sheet

Trada Nama

Industrial Chemical Products Division

3M Center

3M

Document Number: 10-3808-2

St. Paul, Minnesota 55144-1000 612/733-1110 Duns No.: 00-617-3082

FC-143 FLUORAD Brand Fluorochemical Surfacta	nt		
Chemical Family Anionic Fluorochemical Surfactant	3M I.D. Number 98-0211-03	67-0 (5	lb. unit)
. Ingredients	CAS #	%	Exposure Limits
Ammonium Perfluoroalkyl Carboxylates	Mixture#	100	0.1 mg/m3 (3)
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Exposure limit data source: 1) ACGIH Threshold Limit Values, 2) Federal OSHA Permissible Exposure Limit, 3) 3M Exposure Guidelines, 4) Chemical Manufacturer Recommended Guidelines and 5) None established.

29 CFR 1910.1200

Tiecommended dudelines and of None established.			
2. Physical Data			
Boiling Point	NA	Solubility in Water	Appreciable
Vapor Pressure	NA	Specific Gravity (H ₂ O = 1) (Bulk)	0.4-0.5
Vapor Density (Air = 1)	NA	Percent Volatile	NA
Evaporation Rate	NA	рн (0.5% Aqueous)	~5

Appearance and Odor

Light colored powder; slight odor.

3. Fire and Explosion Hazard Data

= Not Hazardous per

Flash Point (Test Method)
Non-Flammable
Flammable Limits: LEL = NA UEL = NA

Extinguishing Media

Water, Foam, CO2, Dry Chemical

Special Fire Fighting Procedures

None Known

Unusual Fire and Explosion Hazards

Heat of fire may release ammonia and HF.

4. Environmental Information

Spill Response

Observe precautions from other sections. Use toxic dust mask. Use wet sweeping compound, or wet down with water to avoid dusting. Collect spilled material. Place in a closed container.

Recommended Disposal M1X With flammable material and incinerate in an industrial or commercial facility. Combustion products will include HF. Disposal alternative: Dispose of waste product in a facility permitted to accept chemical wastes. Since regulations vary, consult applicable regulations or authorities before disposal. U.S. EPA Hazardous Waste No.: None

Environmental Data Chemical Oxygen Demand (COD): Nil; 20-Day Biochemical Oxygen Demand (BOD20): Nil; 96-Hr. LC50, Bluegill Sunfish (Lepomis macrochirus): >500 mg/L; 96-Hr. LC50, Fathead Minnow(Pimephales promelas): >700 mg/L.

					Issue Date	Supersedes
Form 15593-2-D (11/85)	NA = Not A	Applicable	ND = Not	Determined	Nov-1986	Jan-1986
					3	M_NDNY00000488

5. Health Hazard Data

Eve Contact

FC-143 can be irritating to the eyes upon direct contact. Animal studies indicate FC-143 is moderately irritating ocularly.

Skin Contact

FC-143 may be absorbed through the skin. Slightly toxic dermally. Care should be taken to avoid skin contact. FC-143 is non-irritating dermally.

Inhalation

FC-143 may cause respiratory irritation upon inhalation of the dust. Care should be taken to avoid dust inhalation.

Ingestion

FC-143 is moderately toxic on an acute oral basis. The acute oral LD50 (rat) is 540 mg/kg. FC-143 is not teratogenic (rats or rabbits). Non-mutagenic in the Ames Assay.

Suggested First Aid

EYE CONTACT: Immediately flush with plenty of water. Continue for 10 minutes.

Call a physician.

SKIN CONTACT: Wash affected area with soap and water.

INHALATION: Remove to fresh air.

INGESTION: Give two glasses of water. Call a physician or Poison Control

Center.

6. Reactivity Data		
	Unstable	Stable
Stability	Conditions To Avoid Not Applicable	
Incompatibility	Materials To Avoid Not Applicable	
	May Occur	Will Not Occur
Hazardous Polymerization	Conditions To Avoid Not Applicable	

Hazardous Decomposition Products

Thermal decomposition may produce toxic materials including HF.

7. Special Protection Information

Eye Protection	Skin Protection
Safety Goggles	Rubber gloves, protective clothing.

Ventilation

Local exhaust ventilation should be used to control airborne dust.

Respiratory and Special Protection

Toxic dust or supplied air respirator if dust is not well controlled.

8. Precautionary Information

Avoid eye contact and breathing of dust. Prevent moisture contamination to keep powder free flowing. Do not take internally. Wash hands thoroughly before eating food. Launder clothing before re-use. Avoid skin contact.