

EXHIBIT G.

Facsimile Cover Sheet

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From: Jean Ackerman

Company: 3M Company

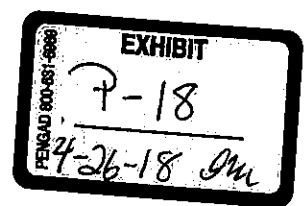
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Date: 1-3-97

Pages including this

cover page: 8



MATERIAL SAFETY
DATA SHEET

3M
3M Center
St. Paul, Minnesota
55144-1000
(612) 733-1110

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DIVISION: SPECIALTY CHEMICALS DIVISION

TRADE NAME:

FC-118 FLUORAD Brand Fluorochemical Surfactant

ID NUMBER/U.P.C.:

98-0211-4832-9 00-51135-02697-7 98-0211-4885-7 00-51135-02745-5
98-0211-8012-4 00-51135-10863-5 98-0211-8083-5 00-51135-10918-2
98-0211-8858-0 00-51135-10971-7

ISSUED: August 23, 1996

SUPERSEDES: May 20, 1996

DOCUMENT: 10-4221-7

1. INGREDIENT

	C.A.S. NO.	PERCENT	
WATER.....			
AMMONIUM PERFLUOROCTANOATE.....	7732-18-5		80
AMMONIUM PERFLUROHEPTANOATE.....	3825-26-1	18	- 21
AMMONIUM PERFLUROHEXANOATE.....	6130-43-4	0.1	- 1.0
AMMONIUM PERFLUROPENTANOATE.....	21615-47-4	0	- 0.1
	68259-11-0	0.1	- 1.0

2. PHYSICAL DATA

BOILING POINT:..... 100 C
(Typical)
VAPOR PRESSURE:..... 18 mmHg
Calc @ 20C
VAPOR DENSITY:..... 0.62 Air=1
Calc @ 20C
EVAPORATION RATE:..... < 1.0 BuOAc=1
SOLUBILITY IN WATER:..... complete
SPECIFIC GRAVITY:..... 1.12 Water=1
PERCENT VOLATILE:..... 80 %
PH:..... ca. 5
VISCOSITY:..... N/D
MELTING POINT:..... N/A

Abbreviations: N/D - Not Determined N/A - Not Applicable

MSDS: FC-118 FLUORAD Brand Fluorochemical Surfactant
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2. PHYSICAL DATA (continued)

APPEARANCE AND ODOR:
Light colored liquid; slight odor.

3. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:..... > 100 C Setflash
FLAMMABLE LIMITS - LEL:..... N/A
FLAMMABLE LIMITS - UEL:..... N/A
AUTOIGNITION TEMPERATURE:..... N/A

EXTINGUISHING MEDIA:
Water, Carbon dioxide, Dry chemical, Foam

SPECIAL FIRE FIGHTING PROCEDURES:
Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
See Hazardous Decomposition section for products of combustion.

4. REACTIVITY DATA

STABILITY: Stable

INCOMPATIBILITY - MATERIALS/CONDITIONS TO AVOID:
Not Applicable

HAZARDOUS POLYMERIZATION: Hazardous polymerization will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS:
Carbon Monoxide and Carbon Dioxide, Oxides of Nitrogen, Hydrogen Fluoride, Ammonia.

5. ENVIRONMENTAL INFORMATION

SPILL RESPONSE:
Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment. In the U.S.A., call (612) 733-1110 or (612) 733-6100 for 24-hour spill assistance. Contain spill. Cover with absorbent material. Collect spilled material.

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5. ENVIRONMENTAL INFORMATION (continued)

For spills to ground: Collect contaminated soil. Pump contaminated water from puddles or stagnant storm sewers. Place collected waste in approved containers, and seal. For spills to ground or surface water: Notify appropriate authorities. Contact 3M to evaluate further needs.

RECOMMENDED DISPOSAL:

Incinerate in an industrial or commercial facility in the presence of a combustible material. Combustion products will include HF.

Pass contaminated water through anion exchange resin. If necessary, contact 3M for assistance.

ENVIRONMENTAL DATA:

Data for product solids: Chemical Oxygen Demand (COD): Nil (.000700g/g). Biochemical Oxygen Demand (BOD20): Nil; 96-Hr. LC50, Bluegill Sunfish (*Lepomis macrochirus*): 569 mg/L; 96-Hr. LC50, Fathead Minnow (*Pimephales promelas*): 766 mg/L; 48-Hr EC50, *Daphnia magna*: 632 mg/L; 14-Day EC50 (cell dry weight), Green Algae (*Selenastrum capricornutum*) 73 mg/L. Soil Adsorption Coefficient (Koc): 17, indicates very high mobility. (Study used a sandy loam soil).

REGULATORY INFORMATION:

Volatile Organic Compounds: N/A.
VOC Less H2O & Exempt Solvents: N/A.

Since regulations vary, consult applicable regulations or authorities before disposal. U.S. EPA Hazardous Waste Number = None (Not U.S. EPA Hazardous).

The components of this product are in compliance with the chemical registration requirements of TSCA, EINECS, CDSL and AICS.

EPCRA HAZARD CLASS:

FIRE HAZARD: No PRESSURE: No REACTIVITY: No ACUTE: Yes CHRONIC: Yes

6. SUGGESTED FIRST AID

EYE CONTACT:

Immediately flush eyes with large amounts of water for at least 15 minutes. Get immediate medical attention.

SKIN CONTACT:

Immediately wash skin with soap and large amounts of water. Remove contaminated clothing. If signs/symptoms occur, call a physician. Wash contaminated clothing before reuse and dispose of contaminated shoes.

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6. SUGGESTED FIRST AID (continued)

INHALATION:

If signs/symptoms occur, remove person to fresh air. If signs/symptoms continue, call a physician.

IF SWALLOWED:

Do not induce vomiting. Drink two glasses of water. Call a physician.

7. PRECAUTIONARY INFORMATION

EYE PROTECTION:

Avoid eye contact. Wear vented goggles.

SKIN PROTECTION:

Avoid skin contact. Wear appropriate gloves when handling this material. A pair of gloves made from the following material(s) are recommended: butyl rubber. Use one or more of the following personal protection items as necessary to prevent skin contact: head covering, coveralls. Protective garments (other than gloves) should be made of either of the following materials: polyethylene/polyvinylidene chloride (Saranex)

Coverall made of Tyvek(r). Wear rubber boots when cleaning up spills.

RECOMMENDED VENTILATION:

Use with appropriate local exhaust ventilation. Provide sufficient ventilation to maintain emissions below recommended exposure limits. If exhaust ventilation is not adequate, use appropriate respiratory protection.

RESPIRATORY PROTECTION:

Avoid breathing of vapors, mists or spray. Avoid breathing of airborne material. Select one of the following NIOSH approved respirators based on airborne concentration of contaminants and in accordance with OSHA regulations: full-face high-efficiency filter respirator, full-face supplied air respirator.

PREVENTION OF ACCIDENTAL INGESTION:

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Wash hands after handling and before eating.

RECOMMENDED STORAGE:

Do not store containers on their sides. Store at room temperature. Keep container closed when not in use.

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7. PRECAUTIONARY INFORMATION (continued)

FIRE AND EXPLOSION AVOIDANCE:

Keep container tightly closed. No smoking while handling this material.

HMIS HAZARD RATINGS: HEALTH: 2 FLAMMABILITY: 1 REACTIVITY: 0
PERSONAL PROTECTION: X (See precautions, section 7.)

EXPOSURE LIMITS

INGREDIENT	VALUE	UNIT	TYPE	AUTH	SKIN*
WATER.....	NONE	NONE	NONE	NONE	
AMMONIUM PERFLUOROOCTANOATE.....	0.01	MG/M3	TWA	ACGIH	Y
AMMONIUM PERFLUOROHEPTANOATE.....	0.1	MG/M3	TWA	3M	Y
AMMONIUM PERFLUOROHEXANOATE.....	0.1	MG/M3	TWA	3M	Y
AMMONIUM PERFLUOROPENTANOATE.....	0.1	MG/M3	TWA	3M	Y

* SKIN NOTATION: Listed substances indicated with 'y' under SKIN refer to the potential contribution to the overall exposure by the cutaneous route including mucous membrane and eye, either by airborne or, more particularly, by direct contact with the substance. Vehicles can alter skin absorption.

SOURCE OF EXPOSURE LIMIT DATA:

- ACGIH: American Conference of Governmental Industrial Hygienists
- 3M: 3M Recommended Exposure Guidelines
- NONE: None Established

8. HEALTH HAZARD DATA

EYE CONTACT:

No toxicity data for the solution. Ammonium perfluoroalkyl carboxylate can be irritating to the eye and may cause eye injury from airborne exposure.

SKIN CONTACT:

May be absorbed through the skin and persist in the body for an extended time.

No toxicity data for the solution. Ammonium perfluoroalkyl carboxylate is slightly toxic when absorbed through the skin; it is non-irritating to the skin.

INHALATION:

May be absorbed by inhalation and persist in the body for an extended time.

No toxicity data for the solution. Ammonium perfluoroalkyl carboxylate may cause respiratory system irritation from inhalation;

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8. HEALTH HAZARD DATA (continued)

can be considered moderately toxic by inhalation on a single exposure; a median lethal concentration for a 4-hour exposure in the albino rat is 980 milligrams per cubic meter. Repeated inhalation exposure produced liver changes and elevated blood organofluoride levels in rats.

IF SWALLOWED:

Ingestion is not a likely route of exposure to this product.

No toxicity data for the solution Ammonium perfluoroalkyl carboxylate is considered moderately toxic from a single oral exposure; acute oral LD50 (rat) is 540 mg. per kg. of body weight.

CANCER:

A mixture of ammonium perfluorooctanoate, ammonium perfluoroheptanoate, ammonium perfluoropentanoate and ammonium perfluorohexanoate, that was 93 to 97% AMMONIUM PERFLUOROOCTANOATE (3825-26-1) was fed to albino rats for 2 years, no compound induced carcinogenicity was found in the study. There were statistically significant compound related benign testicular tumors. In a second two-year study there were statistically significant compound related benign tumors in the liver, pancreas, and testis when compared to ad libitum and pair-fed controls. Based on the current knowledge, these findings have no human health implications. (1983 and 1993 studies conducted jointly by 3M and DuPont).

MUTAGENICITY:

Ammonium perfluoroalkyl carboxylate was not mutagenic in invitro mutagenicity assays. Did not cause cell transformation in a mammalian cell transformation assay.

REPRODUCTIVE/DEVELOPMENTAL TOXINS:

Ammonium perfluoroalkyl carboxylate was not teratogenic in rabbits by oral administration and was not teratogenic to rats by gavage and inhalation exposures.

SECTION CHANGE DATES

HEADING

SECTION CHANGED SINCE May 20, 1996

ISSUE

Abbreviations: N/D - Not Determined N/A - Not Applicable

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Lot Number 287897

Customer

Retail Value

Product Code A 824

Fiberglass Vendor CR/BGF/IPS

Roll Number 828700106-285461

Start yards 731

Finish Yards

Roll Width 51

Glass Style 7620-508-512 or 212 or heat cleaned

Bare Glass Weight

Finished Weight 0.88 - 1.02 Lbs / Sq Yd

Finished Thickness 0.0098 - 0.00102 inches

4 Passes Wrinkle Bars - Over, Over, Over Dip bar

Covered and turning Unwind 49-\$0.50 PSI Take Up 50 - 60 PSI

Wiper Bars SBS - Smooth Bars Slaggered

Fans Set at 100%

Pass #	Rear type/gravity	SPM	Zone 4 Temp	Zone 3 Temp	Zone 2 Temp	Zone 1 Temp	wipe Bars	Date	Time Start	Time Finish	Disp. Mix	Open top	Roll Pos	Yards per Shift
1	3379 / 1350	8	OFF	200	650	670 +/-	SBS		AM 7:30	9:24 AM	1249	AT	C	3720
2	AD 1030 / 1450	10	OFF	200	650	670 +/-	SBS	9/26/01	AM 7:30	9:24 AM	1403	AT	C	600
3	Inspect / Calendar 1X	10	OFF	200	650	670 +/-	SBS	9/26/01	AM 7:30	9:24 AM	1403	AT	C	1210
4	AD 1030 / 1450	10	OFF	200	650	670 +/-	SBS	9/27/01	AM 7:30	9:24 AM	1403	AT	C	720
5	Inspect / Calendar 2X	10	OFF	200	650	670 +/-	SBS	9/27/01	AM 7:30	9:24 AM	1403	AT	C	720
6	AD 1030 / 1450	10	OFF	200	650	670 +/-	SBS	9/27/01	AM 7:30	9:24 AM	1403	AT	C	720
7	AD 1030 / 1450	10	OFF	200	650	670 +/-	SBS	9/27/01	AM 7:30	9:24 AM	1403	AT	C	720
8	AD 1030 / 1450	10	OFF	200	650	670 +/-	SBS	9/27/01	AM 7:30	9:24 AM	1403	AT	C	720
9	AD 1030 / 1450	10	OFF	200	650	670 +/-	SBS	9/27/01	AM 7:30	9:24 AM	1403	AT	C	720
10	AD 1030 / 1450	10	OFF	200	650	670 +/-	SBS	9/27/01	AM 7:30	9:24 AM	1403	AT	C	720
11	AD 1030 / 1450	10	OFF	200	650	670 +/-	SBS	9/27/01	AM 7:30	9:24 AM	1403	AT	C	720
12	AD 1030 / 1450	10	OFF	200	650	670 +/-	SBS	9/27/01	AM 7:30	9:24 AM	1403	AT	C	720
13	AD 1030 / 1450	10	OFF	200	650	670 +/-	SBS	9/27/01	AM 7:30	9:24 AM	1403	AT	C	720
14	AD 1030 / 1450	10	OFF	200	650	670 +/-	SBS	9/27/01	AM 7:30	9:24 AM	1403	AT	C	720

Engineering Timothy Hylano Date 11/5/01 Rev E
 Production 230yds stand to 6ft due to 5000 from Zone 3 & 4. 60yds stand to 4ft for same
 Stand back at 39.8 for 518 in back Right side 12" dia. roll starting to look nasty
 10/- due to on back off of broken Al, work



Mixing Procedures

Mix Number 1030

1.0 Title: Dispersion Mix 1030 (1.200 SG PFA Ludox)

2.0 Ingredients:

	Ingredient	Full Mix
2.1	HS – 30 Ludox	700 ml
2.2	1.200 PFA Dispersion	1732 ml
2.3	FC-143 mix (or FC – 118)	100 ml
2.4	Distilled Water	832 ml

3.0 Mixing Procedure

3.1 In 1000 ml graduated cylinder measure out [LINK Word.Document.8 "TPNT1\USERS\eng\tom\IPD coating stuff\COPY of IPD mixes\MIX1030C.doc" OLE_LINK18 \a \h] of [LINK Word.Document.8 "TPNT1\USERS\eng\tom\IPD coating stuff\COPY of IPD mixes\MIX1030C.doc" OLE_LINK3 \a \h] (from [LINK Word.Document.8 "TPNT1\USERS\eng\tom\IPD coating stuff\COPY of IPD mixes\MIX1030C.doc" OLE_LINK4 \a \h])

and pour into a clean container

3.2 In 1000 ml graduated cylinder measure out [LINK Word.Document.8 "TPNT1\USERS\eng\tom\IPD coating stuff\COPY of IPD mixes\MIX1030C.doc" OLE_LINK5 \a \h] of [LINK Word.Document.8 "TPNT1\USERS\eng\tom\IPD coating stuff\COPY of IPD mixes\MIX1030C.doc" OLE_LINK7 \a \h] (from [LINK Word.Document.8 "TPNT1\USERS\eng\tom\IPD coating stuff\COPY of IPD mixes\MIX1030C.doc" OLE_LINK6 \a \h]).

3.3 With mixing, add to the [LINK Word.Document.8 "TPNT1\USERS\eng\tom\IPD coating stuff\COPY of IPD mixes\MIX1030C.doc" OLE_LINK3 \a \h] (from [LINK Word.Document.8 "TPNT1\USERS\eng\tom\IPD coating stuff\COPY of IPD mixes\MIX1030C.doc" OLE_LINK19 \a \h])

3.4 In 1000 ml graduated cylinder measure out [LINK Word.Document.8 "TPNT1\USERS\eng\tom\IPD coating stuff\COPY of IPD mixes\MIX1030C.doc" OLE_LINK20 \a \h] of [LINK Word.Document.8 "TPNT1\USERS\eng\tom\IPD coating stuff\COPY of IPD mixes\MIX1030C.doc" OLE_LINK21 \a \h] (from [LINK Word.Document.8 "TPNT1\USERS\eng\tom\IPD coating stuff\COPY of IPD mixes\MIX1030C.doc" OLE_LINK22 \a \h]).

3.5 With mixing, add to the [LINK Word.Document.8 "TPNT1\USERS\eng\tom\IPD coating stuff\COPY of IPD mixes\MIX1030C.doc" OLE_LINK3 \a \h] and [LINK Word.Document.8 "TPNT1\USERS\eng\tom\IPD coating stuff\COPY of IPD mixes\MIX1030C.doc" OLE_LINK7 \a \h] mix (from [LINK Word.Document.8 "TPNT1\USERS\eng\tom\IPD coating stuff\COPY of IPD mixes\MIX1030C.doc" OLE_LINK23 \a \h]).

3.6 In 1000 ml graduated cylinder measure out [LINK Word.Document.8 "TPNT1\USERS\eng\tom\IPD coating stuff\COPY of IPD mixes\MIX1030C.doc" OLE_LINK24 \a \h] of [LINK Word.Document.8 "TPNT1\USERS\eng\tom\IPD coating stuff\COPY of IPD mixes\MIX1030C.doc" OLE_LINK25 \a \h] (from [LINK Word.Document.8 "TPNT1\USERS\eng\tom\IPD coating stuff\COPY of IPD mixes\MIX1030C.doc" OLE_LINK26 \a \h]).

With mixing, add to the [LINK Word.Document.8 "TPNT1\USERS\eng\tom\IPD coating stuff\COPY of IPD mixes\MIX1030C.doc" OLE_LINK3 \a \h], [LINK Word.Document.8 "TPNT1\USERS\eng\tom\IPD coating stuff\COPY of IPD mixes\MIX1030C.doc" OLE_LINK7 \a \h], and [LINK Word.Document.8 "TPNT1\USERS\eng\tom\IPD coating stuff\COPY of IPD mixes\MIX1030C.doc" OLE_LINK21 \a \h] mix (from [LINK Word.Document.8 "TPNT1\USERS\eng\tom\IPD coating stuff\COPY of IPD mixes\MIX1030C.doc" OLE_LINK27 \a \h]) and let mix for 15 – 30 minutes.

4.0 Labeling the Mix

Ex. 107

- 4.1 Example LX – A01 – 1
 - 4.1.1 LX = Ludox
 - 4.1.2 A = Month (A = January, B = February, C = March. ...)
 - 4.1.3 1 = Sequential Mix Number within each month

5.0 Adjustments

- 5.1 If any questions arise at all, contact Engineering.
- 5.2 Shelf Life of the mix is 3 days.

6.0 Acceptance of this Procedure

Engineering : _____ Date _____ Production : _____ Date: _____

Rev C
11/30/01

Rev. B – Reviewing Constructions – 9/24/01
Rev. C - Second review of Mix procedure – 11/30/01