

(Material) Safety Data Sheet

Section 1 - Product and Company Identification

Material Name	▪ CF-1
Chemical Category	▪ Mixture
Chemical Category	▪ Mineral oil (mist), Oil mist, mildly refined containing PAHs
Product Description	▪ Amber grease with slight odor.
Product Use	▪ Exclusion of moisture, waterproofing
Manufacturer	▪ AFL Telecommunications 170 Ridgeview Circle Duncan, SC 29334 United States
Telephone	
General	▪ 1-864-433-0333
<u>Emergency</u>	▪ 1-800-866-3941 Ext. 5577 - USA
<u>Emergency</u>	▪ 1-864-433-5577
Preparation Date	▪ 12/06/2011
Last Revision Date	▪ 12/06/2011

Section 2 - Hazards Identification

Emergency Overview

Causes eye irritation. Causes skin irritation. May cause respiratory irritation. May cause drowsiness or dizziness.

Prevention	Avoid breathing dust, fume, gas, mist, vapours and/or spray. Keep container tightly closed. Wear protective gloves and eye/face protection -Safety Glasses. Wash thoroughly after handling.
Response	IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Storage/Disposal	Store in a well-ventilated place. Keep container tightly closed. Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.



This product is not considered flammable or combustible but will burn if ignited. Can cause irritation of eyes and skin. If heated, vapors can cause irritation of respiratory tract and central nervous system effects.

Physical Form

- Color
 - Liquid
 - Amber
- Odor
 - Slight odor.
- Flash Point
 - 464 F(240 C)
- OSHA
 - Irritant
- WHMIS
 - Class D - Poisonous and Infectious Materials - Division 2 - Subdivision B



EU

- Irritant - Xi
R67, R36/37/38



GHS

- Specific Target Organ Toxicity Single Exposure - Category 3:
Narcotic Effects, Specific Target Organ ToxicitySingleExposure-Category3:
Respiratory Tract Irritation, Skin Corrosion/Irritation-Category2, Serious Eye
Damage, Eye Irritation - Category 2A
- Skin rashes, and, if overheated, asthma and chronic lung disease.

Medical Conditions Aggravated by Exposure

NFPA:



Potential Health Effects

Inhalation

Acute (Immediate)

- If heated, vapors can cause irritation of respiratory tract, headache, nausea and other health effects listed below.

Chronic (Delayed)

- No chronic effects expected.

Skin

Acute (Immediate)

- May cause irritation.

Chronic (Delayed)

- Dermatitis may result from prolonged or repeated exposure.

Eye

Acute (Immediate)

- May cause irritation.

Chronic (Delayed)

- No chronic effects expected.

Ingestion

Acute (Immediate)

- May cause gastrointestinal distress ranging from diarrhea to constipation.

Chronic (Delayed)

- No chronic effects expected.

- Mutagenic Effects**
- Mutagenic effects not expected.
- Carcinogenic Effects**
- Material is not considered to have carcinogenic effects but the clay thickener used within the product does contain a component which is considered a carcinogen (R45) according to EU Annex I - 1302-78-9.
- Reproductive Effects**
- No reproductive effects expected.
- Other Acute Effects**
- No other effects expected.
- Other Chronic Effects**
- No chronic effects expected.
- Potential Environmental Effects**
- No information available for product.
- Other Information**
- If the product is heated well above ambient temperatures, oil vapor or mist may be generated. Oil vapor and mist can cause irritation of respiratory tract. Acute overexposures can cause bronchitis, asthma, headache, central nervous system effects (nausea, dizziness and loss of coordination) and drowsiness. Petroleum hydrocarbons can cause irritation of skin. Prolonged or repeated skin contact can cause dermatitis.

See Section 12 for Ecological Information.

Section 3 - Composition/Information on Ingredients

Hazardous Components					
Chemical Name	Identifiers	%(weight)	LD50/LC50	Classifications According to Regulation/Directive	Comments
Polymeric additive in petroleum oil	NDA	5.9%	NDA	EU DSD/DPD:Not classified	NDA
Bentonite	CAS:1302-78-9 EC Number:215-108-5	45%	NDA	EU DSD/DPD:Not classified	NDA
Hydrotreated heavy paraffinic petroleum distillate (highly refined)	CAS:64742-54-7 EC Number:265-157-1	3%	NDA	EU DSD/DPD:Carc.Cat.2; R45	NDA
Tall-oil fatty acids reaction products with Polyethylenepolyamines	CAS:68910-93-0 EINECS:272-756-1	3%	NDA	EU DSD/DPD:Not classified	NDA

Non-Hazardous Components					
Chemical Name	Identifiers	%(weight)	LD50/LC50	Classifications According to Regulation/Directive	Comments
Additives	NDA	5%	NDA	EU DSD/DPD:Not hazardous	NDA

Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous. In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS). According to European Directive 1999/45/EC this preparation is considered dangerous. According to the Globally Harmonized Standard for Classification and Labeling (GHS) this product is considered hazardous.

See Section 11 for Toxicological Information.

Section 4 - First Aid Measures

- Inhalation**
- Remove to fresh air. If unconscious or severely injured, check for clear airway, breathing and presence of pulse. Perform CPR if there is no pulse or respiration. Consult a physician.
- Skin**
- Wash skin with soap and water. Consult a physician if irritation persists.
- Eye**
- Flush eyes with plenty of water or saline. Consult a physician, if irritation persists.

General Industrial Hygiene Considerations

- Minimize breathing oil vapors and mist. Remove greasecontaminated clothing; launder or dry-clean before reuse. Remove grease contaminated shoes andthoroughly clean and dry before reuse. Cleanse skin thoroughly after contact, before breaks and meals, and at the end of the work period. Grease is readilyremoved from skin with waterless hand cleaners followed by a thorough washing with soap and water.

Engineering Measures/Controls

- Use only with adequate ventilation to keep exposures (airborne levels of dust, fume, vapor etc) below recommended exposure limits.

Exposure Limits/Guidelines

- AFL recommends an Occupational Exposure Limit for Oil Mist of 0.5 mg/m3 TWA.

Section 9 - Physical and Chemical Properties			
Material Description			
Physical Form	Liquid	Appearance/Description	Not relevant
Color	Amber	Odor	Slight odor.
Taste	No data available.	Particulate Type	Not relevant
Particulate Size	Not relevant	Aerosol Type	Not relevant
Odor Threshold	Not relevant		
General Properties			
Boiling Point	Not relevant	Melting Point	Not relevant
Decomposition Temperature	Not relevant	Heat of Decomposition	Not relevant
pH	Not relevant	Specific Gravity/Relative Density	Not relevant
Density	Not relevant	Bulk Density	Not relevant
Water Solubility	Not relevant	Solvent Solubility	Not relevant
Viscosity	Not relevant		
Volatility			
Vapor Pressure	Not relevant	Vapor Density	Not relevant
Evaporation Rate	Not relevant	VOC (Wt.)	Not relevant
VOC (Vol.)	Not relevant	Volatiles (Wt.)	Not relevant
Volatiles (Vol.)	Not relevant		
Flammability			
Flash Point	464 F(240 C)	Flash Point Test Type	PMCC (Pensky-Martins Closed Cup)
UEL	Not relevant	LEL	Not relevant
Autoignition	Not relevant	Self-Accelerating Decomposition Temperature (SADT)	Not relevant
Heat of Combustion (ΔH_c)	Not relevant	Burning Time	Not relevant
Flame Duration	Not relevant	Flame Height	Not relevant
Flame Extension	Not relevant	Ignition Distance	Not relevant
Environmental			
Half-Life	Not relevant	Octanol/Water Partition coefficient	Not relevant
Coefficient of water/oil distribution	Not relevant	Bioaccumulation Factor	Not relevant
Bioconcentration Factor	Not relevant	Biochemical Oxygen Demand BOD/BOD5	Not relevant

Chemical Oxygen Demand	Not relevant	Persistence	Not relevant
Degradation	Not relevant		

Section 10 - Stability and Reactivity

Stability	<ul style="list-style-type: none"> Stable under normal conditions of use, storage, and transportation.
Hazardous Polymerization	<ul style="list-style-type: none"> Hazardous polymerization will not occur.
Conditions to Avoid	<ul style="list-style-type: none"> Heat, open flame and contact with strong oxidizers.
Incompatible Materials	<ul style="list-style-type: none"> No data available.
Hazardous Decomposition Products	<ul style="list-style-type: none"> Carbon monoxide, carbon dioxide and partially oxidized hydrocarbons.

Section 11 - Toxicological Information

Component Name	CAS	Data
Bentonite (5%)	1302-78-9	Acute Toxicity: orl-mus TDLo:14 gm/kg/7D-I; orl-rat TDLo:700 mg/kg/7D-I; Tumorigen/Carcinogen: orl-mus TDLo:12000 gm/kg/28W-C

Other Information	<ul style="list-style-type: none"> No information available for product.
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Section 12 - Ecological Information

Ecological Fate	<ul style="list-style-type: none"> No information available for the product.
Persistence/Degradability	<ul style="list-style-type: none"> No information available for the product.
Bioaccumulation Potential	<ul style="list-style-type: none"> No information available for the product.
Mobility in Soil	<ul style="list-style-type: none"> No information available for the product.

Section 13 - Disposal Considerations

Product	<ul style="list-style-type: none"> All wastes containing the material should be properly labeled. Dispose of any waste residues according to prescribed federal, state, and local guidelines, e.g., appropriately permitted chemical waste incinerator.
Packaging	<ul style="list-style-type: none"> No data available.

Section 14 - Transportation Information

This product is not classified as Hazardous Material under U.S. DOT or Canadian TDG regulations.

DOT - United States - Department of Transportation

Shipping Name: Not Regulated

TDG - Canada - Transport of Dangerous Goods

Shipping Name: Not Regulated

IMO/IMDG - International Maritime Transport

Shipping Name: Not Regulated

IATA/ICAO - International Air Transport Association

Shipping Name: Not Regulated

Section 15 - Regulatory Information

- SARA Hazard Classifications** ▪ Acute, Chronic
- Risk & Safety Phrases** ▪ S53 Avoid exposure - obtain special instructions before use.
 S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
 R36/37/38 Irritating to eyes, respiratory system and skin.
 R45 May cause cancer.

State Right To Know				
Component	CAS	MA	NJ	PA
Additives	NDA	No	No	No
Polymeric additive in petroleum oil	NDA	No	No	No
Bentonite	1302-78-9	No	No	No
Hydrotreated heavy paraffinic petroleum distillate (highly refined)	64742-54-7	No	No	No
Tall-oil fatty acids reaction products with Polyethylenepolyamines	68910-93-0	No	No	No

Inventory					
Component	CAS	Canada DSL	EU EINECS	EU ELNICS	TSCA
Additives	NDA	No	No	No	No
Polymeric additive in petroleum oil	NDA	No	No	No	No
Bentonite	1302-78-9	Yes	Yes	No	Yes
Hydrotreated heavy paraffinic petroleum distillate (highly refined)	64742-54-7	Yes	Yes	No	Yes
Tall-oil fatty acids reaction products with Polyethylenepolyamines	68910-93-0	Yes	Yes	No	Yes

Canada

Labor

Canada - WHMIS - Classifications of Substances

- | | | | |
|---|------------|----|------------|
| • Tall-oil fatty acids reaction products with Polyethylenepolyamines | 68910-93-0 | 3% | Not Listed |
| • Hydrotreated heavy paraffinic petroleum distillate (highly refined) | 64742-54-7 | 3% | Not Listed |
| • Bentonite | 1302-78-9 | 5% | D2A |

Canada - WHMIS - Ingredient Disclosure List

- | | | | |
|---|------------|----|------------|
| • Tall-oil fatty acids reaction products with Polyethylenepolyamines | 68910-93-0 | 3% | Not Listed |
| • Hydrotreated heavy paraffinic petroleum distillate (highly refined) | 64742-54-7 | 3% | Not Listed |
| • Bentonite | 1302-78-9 | 5% | Not Listed |

Environment

Canada - CEPA - Priority Substances List

- | | | | |
|---|------------|----|------------|
| • Tall-oil fatty acids reaction products with Polyethylenepolyamines | 68910-93-0 | 3% | Not Listed |
| • Hydrotreated heavy paraffinic petroleum distillate (highly refined) | 64742-54-7 | 3% | Not Listed |
| • Bentonite | 1302-78-9 | 5% | Not Listed |

Europe

Other

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Classification

- | | | | |
|---|------------|----|-----------------|
| • Tall-oil fatty acids reaction products with Polyethylenepolyamines | 68910-93-0 | 3% | Not Listed |
| • Hydrotreated heavy paraffinic petroleum distillate (highly refined) | 64742-54-7 | 3% | Carc.Cat.2; R45 |
| • Bentonite | 1302-78-9 | 5% | Not Listed |

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits

- | | | | |
|---|------------|----|------------|
| • Tall-oil fatty acids reaction products with Polyethylenepolyamines | 68910-93-0 | 3% | Not Listed |
| • Hydrotreated heavy paraffinic petroleum distillate (highly refined) | 64742-54-7 | 3% | Not Listed |
| • Bentonite | 1302-78-9 | 5% | Not Listed |

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling

- | | | | |
|---|------------|----|----------------|
| • Tall-oil fatty acids reaction products with Polyethylenepolyamines | 68910-93-0 | 3% | Not Listed |
| • Hydrotreated heavy paraffinic petroleum distillate (highly refined) | 64742-54-7 | 3% | T R:45 S:53-45 |
| • Bentonite | 1302-78-9 | 5% | Not Listed |

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Notes - Substances and Preparations

- | | | | |
|---|------------|----|------------|
| • Tall-oil fatty acids reaction products with Polyethylenepolyamines | 68910-93-0 | 3% | Not Listed |
| • Hydrotreated heavy paraffinic petroleum distillate (highly refined) | 64742-54-7 | 3% | H, L |
| • Bentonite | 1302-78-9 | 5% | Not Listed |

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Safety Phrases

- | | | | |
|---|------------|----|------------|
| • Tall-oil fatty acids reaction products with Polyethylenepolyamines | 68910-93-0 | 3% | Not Listed |
| • Hydrotreated heavy paraffinic petroleum distillate (highly refined) | 64742-54-7 | 3% | S:53-45 |
| • Bentonite | 1302-78-9 | 5% | Not Listed |

United States

Labor

U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals

- | | | | |
|---|------------|----|------------|
| • Tall-oil fatty acids reaction products with Polyethylenepolyamines | 68910-93-0 | 3% | Not Listed |
| • Hydrotreated heavy paraffinic petroleum distillate (highly refined) | 64742-54-7 | 3% | Not Listed |
| • Bentonite | 1302-78-9 | 5% | Not Listed |

U.S. - OSHA - Specifically Regulated Chemicals

• Tall-oil fatty acids reaction products with Polyethylenepolyamines	68910-93-0	3%	Not Listed
• Hydrotreated heavy paraffinic petroleum distillate (highly refined)	64742-54-7	3%	Not Listed
• Bentonite	1302-78-9	5%	Not Listed

Environment**U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants**

• Tall-oil fatty acids reaction products with Polyethylenepolyamines	68910-93-0	3%	Not Listed
• Hydrotreated heavy paraffinic petroleum distillate (highly refined)	64742-54-7	3%	Not Listed
• Bentonite	1302-78-9	5%	Not Listed

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

• Tall-oil fatty acids reaction products with Polyethylenepolyamines	68910-93-0	3%	Not Listed
• Hydrotreated heavy paraffinic petroleum distillate (highly refined)	64742-54-7	3%	Not Listed
• Bentonite	1302-78-9	5%	Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs

• Tall-oil fatty acids reaction products with Polyethylenepolyamines	68910-93-0	3%	Not Listed
• Hydrotreated heavy paraffinic petroleum distillate (highly refined)	64742-54-7	3%	Not Listed
• Bentonite	1302-78-9	5%	Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs

• Tall-oil fatty acids reaction products with Polyethylenepolyamines	68910-93-0	3%	Not Listed
• Hydrotreated heavy paraffinic petroleum distillate (highly refined)	64742-54-7	3%	Not Listed
• Bentonite	1302-78-9	5%	Not Listed

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

• Tall-oil fatty acids reaction products with Polyethylenepolyamines	68910-93-0	3%	Not Listed
• Hydrotreated heavy paraffinic petroleum distillate (highly refined)	64742-54-7	3%	Not Listed
• Bentonite	1302-78-9	5%	Not Listed

U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing

• Tall-oil fatty acids reaction products with Polyethylenepolyamines	68910-93-0	3%	Not Listed
• Hydrotreated heavy paraffinic petroleum distillate (highly refined)	64742-54-7	3%	Not Listed
• Bentonite	1302-78-9	5%	Not Listed

United States - California**Environment****U.S. - California - Proposition 65 - Carcinogens List**

• Tall-oil fatty acids reaction products with Polyethylenepolyamines	68910-93-0	3%	Not Listed
• Hydrotreated heavy paraffinic petroleum distillate (highly refined)	64742-54-7	3%	Not Listed
• Bentonite	1302-78-9	5%	Not Listed

U.S. - California - Proposition 65 - Developmental Toxicity

• Tall-oil fatty acids reaction products with Polyethylenepolyamines	68910-93-0	3%	Not Listed
• Hydrotreated heavy paraffinic petroleum distillate (highly refined)	64742-54-7	3%	Not Listed
• Bentonite	1302-78-9	5%	Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Female

• Tall-oil fatty acids reaction products with Polyethylenepolyamines	68910-93-0	3%	Not Listed
• Hydrotreated heavy paraffinic petroleum distillate (highly refined)	64742-54-7	3%	Not Listed
• Bentonite	1302-78-9	5%	Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Male

- | | | | |
|---|------------|----|------------|
| • Tall-oil fatty acids reaction products with Polyethylenepolyamines | 68910-93-0 | 3% | Not Listed |
| • Hydrotreated heavy paraffinic petroleum distillate (highly refined) | 64742-54-7 | 3% | Not Listed |
| • Bentonite | 1302-78-9 | 5% | Not Listed |

United States - New Jersey**Environment****U.S. - New Jersey - Environmental Hazardous Substances List**

- | | | | |
|---|------------|----|------------|
| • Tall-oil fatty acids reaction products with Polyethylenepolyamines | 68910-93-0 | 3% | Not Listed |
| • Hydrotreated heavy paraffinic petroleum distillate (highly refined) | 64742-54-7 | 3% | Not Listed |
| • Bentonite | 1302-78-9 | 5% | Not Listed |

United States - Pennsylvania**Labor****U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List**

- | | | | |
|---|------------|----|------------|
| • Tall-oil fatty acids reaction products with Polyethylenepolyamines | 68910-93-0 | 3% | Not Listed |
| • Hydrotreated heavy paraffinic petroleum distillate (highly refined) | 64742-54-7 | 3% | Not Listed |
| • Bentonite | 1302-78-9 | 5% | Not Listed |

Section 16 - Other Information

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| Preparation Date | ▪ 12/06/2011 |
| Last Revision Date | ▪ 12/06/2011 |
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