### SECTION 1: Identification

**1.1. Identification**

Product name: X-1910

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

Use of the substance/mixture: Corrosion inhibitor

**1.3. Details of the supplier of the safety data sheet**

**Supplier**

AFL TELECOMMUNICATIONS LLC  
170 RIDGEVIEW CIRCLE  
DUNCAN, SC  29334 USA  
T 864-433-0333  
WWW.AFLGLOBAL.COM

**Distributor**

Add the name, address and tel. number of the Canadian manufacturer or importer who operates in Canada

**1.4. Emergency telephone number**

Emergency number: 636-257-4449

### SECTION 2: Hazard identification

**2.1. Classification of the substance or mixture**

**GHS classification**

- Skin Sens.: 1
- Carc.: 2
- STOT RE 1

**2.2. Label elements**

**GHS labelling**

Hazard pictograms (GHS):

- GHS07
- GHS08

**Signal word (GHS):** Danger

**Hazard statements (GHS):** May cause an allergic skin reaction. Suspected of causing cancer. Causes damage to organs through prolonged or repeated exposure.

**Precautionary statements (GHS):** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapours/spray. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. If on skin: Wash with plenty of water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention. If exposed or concerned: Get medical advice/attention. Store locked up. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

**2.3. Other hazards**

No additional information available

**2.4. Unknown acute toxicity**

Not applicable

### SECTION 3: Composition/information on ingredients

**3.1. Substances**

Not applicable
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### 3.2 Mixtures

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum</td>
<td>(CAS-No.) 7429-90-5</td>
<td>10.00</td>
</tr>
<tr>
<td>Nickel</td>
<td>(CAS-No.) 7440-02-0</td>
<td>10.00</td>
</tr>
</tbody>
</table>

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

**First-aid measures after inhalation**: Not a normal route of exposure. If symptoms develop, remove to fresh air. Get medical attention if condition worsens.

**First-aid measures after skin contact**: IF ON SKIN: Wash with plenty of Water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention.

**First-aid measures after eye contact**: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. This compound contains abrasive particles. If eye irritation persists: Get medical advice/attention.

**First-aid measures after ingestion**: Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

#### 4.2 Most important symptoms and effects, both acute and delayed

**Symptoms/effects after inhalation**: Not a normal route of exposure.

**Symptoms/effects after skin contact**: May cause skin irritation. Symptoms may include redness, drying, and cracking of the skin. May cause an allergic skin reaction.

**Symptoms/effects after eye contact**: May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.

**Symptoms/effects after ingestion**: May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

#### 4.3 Indication of any immediate medical attention and special treatment needed

Symptoms may be delayed. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

### SECTION 5: Fire-fighting measures

#### 5.1 Extinguishing media

**Suitable extinguishing media**: Dry chemical. Foam. Carbon dioxide.

**Unsuitable extinguishing media**: Do not use water jet.

#### 5.2 Special hazards arising from the substance or mixture

**Fire hazard**: Products of combustion may include, and are not limited to: oxides of carbon.

**Reactivity**: No dangerous reactions known under normal conditions of use.

#### 5.3 Advice for firefighters

**Protection during firefighting**: Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

**General measures**: Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

##### 6.1.1 For non-emergency personnel

No additional information available.

##### 6.1.2 For emergency responders

No additional information available.

#### 6.2 Environmental precautions

Prevent entry to sewers and public waters.

#### 6.3 Methods and material for containment and cleaning up

**For containment**: Absorb and/or contain spill with inert material (sand, vermiculite or other appropriate material), then place in suitable container. Do not flush into surface water or sewer system. Wear recommended personal protective equipment.

**Methods for cleaning up**: Sweep or shovel spills into appropriate container for disposal.
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6.4. Reference to other sections
For further information refer to section 8: "Exposure controls/personal protection"

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Precautions for safe handling: Avoid contact with skin and eyes. Do not swallow. Do not breathe dust, fume, gas, mist, spray, vapours. Handle and open container with care. When using do not eat, drink or smoke.

Hygiene measures: Wash contaminated clothing before reuse. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities
Storage conditions: Keep out of the reach of children. Keep container tightly closed. Store locked up.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>Aluminum (7429-90-5)</th>
<th>ACGIH</th>
<th>OSHA</th>
<th>NIOSH</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH TWA (mg/m³)</td>
<td>1 mg/m³ (respirable particulate matter)</td>
<td>15 mg/m³ (total dust)</td>
<td>10 mg/m³ (total dust)</td>
</tr>
<tr>
<td>OSHA PEL (TWA) (mg/m³)</td>
<td>5 mg/m³ (respirable fraction)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NIOSH REL (TWA) (mg/m³)</td>
<td>5 mg/m³ (respirable dust)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Nickel (7440-02-0)</th>
<th>ACGIH</th>
<th>OSHA</th>
<th>NIOSH</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH TWA (mg/m³)</td>
<td>1.5 mg/m³ (inhalable particulate matter)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>OSHA PEL (TWA) (mg/m³)</td>
<td>1 mg/m³</td>
<td></td>
<td></td>
</tr>
<tr>
<td>US IDLH (mg/m³)</td>
<td>10 mg/m³</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NIOSH REL (TWA) (mg/m³)</td>
<td>0.015 mg/m³</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

8.2. Exposure controls
Appropriate engineering controls: Ensure good ventilation of the work station.
Hand protection: Wear suitable gloves resistant to chemical penetration.
Eye protection: Safety glasses or goggles are recommended when using product.
Skin and body protection: Wear suitable protective clothing.
Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Environmental exposure controls: Avoid release to the environment.
Other information: Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Physical state</th>
<th>Solid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Paste / thick grease</td>
</tr>
<tr>
<td>Colour</td>
<td>Grey</td>
</tr>
<tr>
<td>Odour</td>
<td>No data available</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point</td>
<td>No data available</td>
</tr>
<tr>
<td>Freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt; 260 °C (&gt;500 °F)</td>
</tr>
<tr>
<td>Relative evaporation rate (butylacetate=1)</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not flammable</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative vapour density at 20 °C</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>No data available</td>
</tr>
</tbody>
</table>
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<table>
<thead>
<tr>
<th>Property</th>
<th>Data Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solubility</td>
<td>No data available</td>
</tr>
<tr>
<td>Partition coefficient n-octanol/water</td>
<td>No data available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive limits</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>No data available</td>
</tr>
</tbody>
</table>

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Heat.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)                          : Not classified.
Acute toxicity (dermal)                       : Not classified.
Acute toxicity (inhalation)                   : Not classified.

Nickel (7440-02-0)

LD50 oral rat                                  > 9000 mg/kg
Skin corrosion/irritation                     : Not classified.
Serious eye damage/irritation                 : Not classified.
Respiratory or skin sensitisation            : May cause an allergic skin reaction.
Germ cell mutagenicity                        : Not classified.
Carcinogenicity                               : Suspected of causing cancer.

Nickel (7440-02-0)

IARC group                                    2B - Possibly carcinogenic to humans
National Toxicology Program (NTP) Status      3 - Reasonably anticipated to be Human Carcinogen
In OSHA Hazard Communication Carcinogen list  Yes

Reproductive toxicity                         : Not classified.
STOT-single exposure                          : Not classified.
STOT-repeated exposure                        : Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard                             : Not classified.
Symptoms/effects after inhalation             : Not a normal route of exposure.
Symptoms/effects after skin contact           : May cause skin irritation. Symptoms may include redness, drying, and cracking of the skin. May cause an allergic skin reaction.
Symptoms/effects after eye contact            : May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.
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Symptoms/effects after ingestion: May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

SECTION 12: Ecological information

12.1. Toxicity
Ecology - general: May cause long-term adverse effects in the aquatic environment.

<table>
<thead>
<tr>
<th>Nickel (7440-02-0)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish 1</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
</tr>
<tr>
<td>LC50 fish 2</td>
</tr>
<tr>
<td>EC50 Daphnia 2</td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability
X-1910
Persistence and degradability: Not established.

12.3. Bioaccumulative potential
X-1910
Bioaccumulative potential: Not established.

12.4. Mobility in soil
No additional information available

12.5. Other adverse effects
Effect on the global warming: No known effects from this product.
Other information: No other effects known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Product/Packaging disposal recommendations: Dispose in a safe manner in accordance with local/national regulations.

SECTION 14: Transport information

Department of Transportation (DOT) and Transportation of Dangerous Goods (TDG)
In accordance with DOT/TDG
Not regulated

SECTION 15: Regulatory information

15.1. Federal regulations
All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.
All components of this product are listed, or excluded from listing, on the Canadian DSL (Domestic Substances List) and NDSL (Non-Domestic Substances List) inventories.

15.2. International regulations
No additional information available

15.3. US State regulations
California Proposition 65 - This product contains, or may contain, trace quantities of a substance(s) known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

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