1. PRODUCT AND COMPANY IDENTIFICATION

Product Name
Aluminum coil and sheet for building and construction

Product Code(s)
1XXX, 1100, 1200A, 1350, 3XXX, 3003, 3004, 3015, 3105, 3105S, GL33, GL99, BH22, GLXX, 5XXX, 5017, 5052, 5754, 8XXX, B111

Recommended Use
Consumer durables distribution and light gauge application.

Supplier Address
Aleris Rolled Products
1372 State Road 1957
Lewisport, KY 42351-0480
270-295-3451

Emergency Telephone Number
Chemtrec 800-424-9300

2. HAZARDS IDENTIFICATION

CAUTION!
Appearance Silver, Metallic, Color, Solid
Physical State Solid
Odor None

Potential Health Effects
Acute Toxicity
Eyes May cause slight irritation.
Skin Does not pose a potential of skin irritation and sensitization.
Inhalation Inhalation of dust in high concentration may cause irritation of respiratory system.
Ingestion Not an expected route of exposure. Ingestion may cause irritation to mucous membranes. May be harmful if swallowed.

Chronic Effects
No known chronic effects of components present at greater than 1%.

Aggravated Medical Conditions
Environmental Hazard

See Section 12 for additional Ecological Information.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum</td>
<td>7429-90-5</td>
<td>&gt;92</td>
</tr>
<tr>
<td>Zinc</td>
<td>7440-66-6</td>
<td>&lt;5.85</td>
</tr>
<tr>
<td>Magnesium</td>
<td>7439-95-4</td>
<td>&lt;5.50</td>
</tr>
<tr>
<td>Silicon</td>
<td>7440-21-3</td>
<td>&lt;2.0</td>
</tr>
<tr>
<td>Manganese</td>
<td>7439-95-5</td>
<td>&lt;1.50</td>
</tr>
<tr>
<td>Chromium</td>
<td>7440-47-3</td>
<td>&lt;0.35</td>
</tr>
<tr>
<td>Nickel</td>
<td>7440-02-0</td>
<td>&lt;0.05</td>
</tr>
<tr>
<td>Lead</td>
<td>7439-92-1</td>
<td>&lt;0.01</td>
</tr>
</tbody>
</table>

### 4. FIRST AID MEASURES

**Eye Contact**
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.

**Skin Contact**
Wash off immediately with plenty of water for at least 15 minutes. If symptoms persist, call a physician.

**Inhalation**
Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If symptoms persist, call a physician.

**Ingestion**
Not an expected route of exposure. Immediate medical attention is not required. Consult a physician if necessary.

**Notes to Physician**
Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

**Flammable Properties**
Finely divided aluminum powder or dust may form explosive mixtures in air.

**Flash Point**
Not applicable.

**Suitable Extinguishing Media**
Do not use water or foam. Dry chemical recommended.

**Unsuitable Extinguishing Media**
DO NOT USE WATER OR FOAM.

**Explosion Data**

**Sensitivity to Mechanical Impact**
None.

**Sensitivity to Static Discharge**
None.

**Specific Hazards Arising from the Chemical**
Molten aluminum in the presence of water is very unstable. Do not use water to extinguish where there is a possibility of molten aluminum being present. Finely divided aluminum will form explosive mixture in air.

**Protective Equipment and Precautions for Firefighters**
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Ensure adequate ventilation. Use personal protective equipment.

Methods for Containment

Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up

No special precautions for large product fragments. For dust cleanup use protective equipment. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Handling

Handle in accordance with good industrial hygiene and safety practice. Wear personal protective equipment. Avoid dust formation. Do not breathe vapors/dust. Do not touch cast aluminum metal or heated aluminum product without knowing metal temperature. Aluminum experiences no color change during heating. Contact with hot metal can cause skin and eye burns.

Storage

Keep in a dry, cool and well-ventilated place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

The following table lists exposure limits for all chemicals listed in Section 3 where a limit exists.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum</td>
<td>TWA: 10 mg/m³</td>
<td>TWA: 15 mg/m³ (total)</td>
</tr>
<tr>
<td>7429-90-5</td>
<td></td>
<td>TWA: 5 mg/m³ (respirable)</td>
</tr>
<tr>
<td>Silicon</td>
<td>TWA: 10 mg/m³</td>
<td>TWA: 5 mg/m³ (respirable)</td>
</tr>
<tr>
<td>7440-2-3</td>
<td>TWA: 15 mg/m³ (total)</td>
<td></td>
</tr>
<tr>
<td>Manganese</td>
<td>TWA: 0.2 mg/m³</td>
<td>Ceiling: 5 mg/m³</td>
</tr>
<tr>
<td>7439-96-5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Copper</td>
<td>TWA: 0.2 mg/m³ (fume)</td>
<td>TWA: 0.1 mg/m³ (dust)</td>
</tr>
<tr>
<td>7440-50-8</td>
<td>TWA: 1 mg/m³ (dust)</td>
<td></td>
</tr>
<tr>
<td>Chromium</td>
<td>TWA: 0.5 mg/m³</td>
<td>TWA: 1 mg/m³</td>
</tr>
<tr>
<td>7440-47-3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Zirconium</td>
<td>TWA: 10 mg/m³ STEL</td>
<td>TWA: 5 mg/m³</td>
</tr>
<tr>
<td>7440-57-7</td>
<td>TWA: 5 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Tin</td>
<td>TWA: 2 mg/m³</td>
<td>TWA: 2 mg/m³</td>
</tr>
<tr>
<td>7440-31-5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nickel</td>
<td>TWA: 1.5 mg/m³</td>
<td>TWA: 1 mg/m³</td>
</tr>
<tr>
<td>7440-02-0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lead</td>
<td>TWA: 0.05 mg/m³</td>
<td>TWA: 50 μg/m³</td>
</tr>
<tr>
<td>7439-92-1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Other Exposure Guidelines

Hexavalent chrome may be formed during welding. The welding of aluminum alloys may generate carbon monoxide, carbon dioxide, ozone, nitrogen oxides, infrared radiation and ultra-violet radiation.
Engineering Measures
- Showers
- Eyewash stations
- Ventilation systems

Personal Protective Equipment
- Eye/Face Protection: Tightly fitting safety goggles. Avoid contact with eyes.
- Skin and Body Protection: Impervious gloves.
- Respiratory Protection: If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Hygiene Measures
- Handle in accordance with good industrial hygiene and safety practice.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Silver Metallic Color Solid</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No information available</td>
</tr>
<tr>
<td>pH</td>
<td>No information available</td>
</tr>
<tr>
<td>Flash Point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>No information available</td>
</tr>
<tr>
<td>Melting Point/Range</td>
<td>915-1215°F</td>
</tr>
<tr>
<td>Flammability Limits in Air</td>
<td>No information available</td>
</tr>
<tr>
<td>Solubility</td>
<td>No information available</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Density</td>
<td>0.095-0.103 lbs/in³</td>
</tr>
<tr>
<td>Odor</td>
<td>Physical State Solid</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>No information available</td>
</tr>
<tr>
<td>Boiling Point/Range</td>
<td>No information available</td>
</tr>
<tr>
<td>Explosion Limits</td>
<td>No information available</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>No information available</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>No data available</td>
</tr>
<tr>
<td>VOC Content</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

### 10. STABILITY AND REACTIVITY

- **Stability**: Stable under recommended storage conditions.
- **Incompatible Products**: Acids, Alkalis, Hydroxides, Halogens.
- **Conditions to Avoid**: Aluminum fines are attacked by strong acids and alkalis and by some halogenated organic compounds especially at elevated temperatures. Operations generating aluminum fines may produce hydrogen gas when exposed to moisture. Hydrogen gas is highly flammable and can accumulate in poorly ventilated areas.
- **Hazardous Decomposition Products**: Welding of aluminum alloys may generate carbon monoxide, carbon dioxide, ozone, and nitrogen oxides.
- **Hazardous Polymerization**: Hazardous polymerization does not occur.
11. TOXICOLOGICAL INFORMATION

Acute Toxicity
Product Information
The product itself has not been tested.

Chronic Toxicity
Chronic Toxicity
No known chronic effects of components present at greater than 1%.

Carcinogenicity
No known carcinogens are present at greater than 0.1%.

Sensitization
None known.

Mutagenic Effects
None known.

Reproductive Toxicity
None known.

Developmental Toxicity
None known.

Target Organ Effects
No known effects under normal use conditions.

12. ECOLOGICAL INFORMATION

Ecotoxicity
The environmental impact of this product has not been fully investigated.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods
Dispose of in accordance with all applicable national environmental laws and regulations.

Contaminated Packaging
Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

DOT
U.S. Department of Transportation
Not regulated

TDG
Transport Dangerous Goods (Canada)
Not regulated

MEX
Transport Dangerous Goods (Mexico)
Not regulated

ICAO
International Civil Aviation Organization
Not regulated

IATA
International Air Transport Association
Not regulated