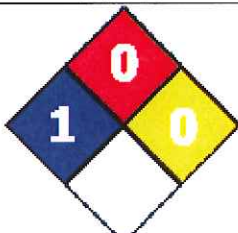



Aleris

Rolled Products

Material Safety Data Sheet

NFPA	HMIS	PPE	Transport Symbol						
	<table><tr><td>Health Hazard</td><td>1</td></tr><tr><td>Fire Hazard</td><td>0</td></tr><tr><td>Reactivity</td><td>0</td></tr></table>	Health Hazard	1	Fire Hazard	0	Reactivity	0		Not Regulated
Health Hazard	1								
Fire Hazard	0								
Reactivity	0								

Issuing Date 1-October-2008

Revision Date 1-October-2008

MSDS Number 001

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, 8111

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 Skin disorders. Respiratory disorders. Asthma.

Environmental Hazard

See Section 12 for additional Ecological Information.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Aluminum	7429-90-5	>92
Zinc	7440-66-6	<5.85
Magnesium	7439-95-4	<5.50
Silicon	7440-21-3	<2.0
Manganese	7439-96-5	<1.50
Chromium	7440-47-3	<0.35
Nickel	7440-02-0	<0.05
Lead	7439-92-1	<0.01

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.

NFPA	Health Hazard 1	Flammability 0	Stability 0	Physical and Chemical Hazards -
HMIS	Health Hazard 1	Flammability 0	Stability 0	Personal Precautions -

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.

Chemical Name	ACGIH TLV	OSHA PEL
Aluminum 7429-90-5	TWA: 10 mg/m ³	TWA: 15 mg/m ³ (total) TWA: 5 mg/m ³ (respirable)
Silicon 7440-21-3	TWA: 10 mg/m ³ TWA: 15 mg/m ³ (total)	TWA: 5 mg/m ³ (respirable)
Manganese 7439-96-5	TWA: 0.2 mg/m ³	Ceiling: 5 mg/m ³
Copper 7440-50-8	TWA: 0.2 mg/m ³ (fume) TWA: 1 mg/m ³ (dust)	TWA: 0.1 mg/m ³ (dust)
Chromium 7440-47-3	TWA: 0.5 mg/m ³	TWA: 1 mg/m ³
Zirconium 7440-67-7	TWA: 10 mg/m ³ STEL TWA: 5 mg/m ³	TWA: 5 mg/m ³
Tin 7440-31-5	TWA: 2 mg/m ³	TWA: 2 mg/m ³
Nickel 7440-02-0	TWA: 1.5 mg/m ³	TWA: 1 mg/m ³
Lead 7439-92-1	TWA: 0.05 mg/m ³	TWA: 50 µg/m ³

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.
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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

Appearance

Silver Metallic Color Solid

Odor

None

**Odor Threshold
pH**

No information available
No information available

Physical State

Solid

Flash Point

Not applicable

Autoignition Temperature

No information available

Decomposition Temperature

No information available

Boiling Point/Range

No information available

Melting Point/Range

915-1215°F

Flammability Limits in Air

No information available

Explosion Limits

No information available

Solubility

No information available

Evaporation Rate

No information available

Vapor Pressure

No data available

Vapor Density

No data available

Density

0.095-0.103 lbs/in³

VOC Content

Not applicable

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