

1. Product and Company Identification

Material name Sills
Version # 00
Revision date 03-19-2009
Product code All aluminum sills
Manufacturer information Therma-Tru Corporation
 108 RE Jones Road
 Butler IN, 46721
 Emergency telephone: CHEMTREC, U.S. : (800) 424-930
 International: (703) 527-3887 (703) 527-3887

2. Hazards Identification

Physical state Solid.
Appearance Finished part.
Emergency overview In its manufactured and shipped state, this product is considered to present low hazard. Processing may generate dusts and fumes with the below listed potential health effects.
OSHA regulatory status This product is not hazardous according to OSHA 29CFR 1910.1200.
Potential health effects
Eyes Exposure to particles from cutting operations may cause mechanical irritation of eyes.
Skin Exposure to particles from cutting operations may cause mechanical irritation of skin.
Inhalation Aluminum dusts generated during use are considered nuisance particulates. High concentrations of dust and fumes irritate the throat and respiratory system and cause coughing.
Ingestion Not relevant, due to the form of the product.
Target organs No specific target organs noted.
Chronic effects No data available.
Signs and symptoms Under normal conditions of intended use, this material does not pose a risk to health.
Potential environmental effects The product is not expected to be hazardous to the environment.

3. Composition / Information on Ingredients

| Components | CAS # | Percent |
|------------|-----------|---------|
| Aluminium | 7429-90-5 | <100 |

4. First Aid Measures

First aid procedures
Eye contact Dust in the eyes: Flush thoroughly with water for at least 15 minutes. Get medical attention if any discomfort continues.
Skin contact Contact with dust: Wash with soap and water. Get medical attention if any discomfort continues.
Inhalation In case of inhalation of dust or fumes: Get medical attention if any discomfort continues.
Ingestion No specific first aid measures noted.

5. Fire Fighting Measures

Flammable properties 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 mixtures in air.
Extinguishing media
Suitable extinguishing media Do not use water on molten metal. Dry chemical.
Protection of firefighters
Specific hazards arising from the chemical Not a fire hazard.

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| Protective equipment and precautions for firefighters | Self-contained breathing apparatus and full protective clothing should be worn when fighting chemical fires. |
| Specific methods | Not applicable. |
| Hazardous combustion products | Metal oxides. |

6. Accidental Release Measures

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| Personal precautions | No special precautions are necessary beyond normal good hygiene practices. See Section 8 of the MSDS for additional personal protection advice when handling this product. |
| Environmental precautions | No specific precautions. |
| Methods for cleaning up | For waste disposal, see section 13 of the MSDS. |

7. Handling and Storage

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| Handling | Use work methods which minimize dust production. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Wash hands after handling. Observe good industrial hygiene practices. |
| Storage | Store away from incompatible materials. Read and follow manufacturer's recommendations. |

8. Exposure Controls / Personal Protection

Occupational exposure limits

ACGIH

| Components | Type | Value | Form |
|-----------------------|------|---------------------|----------------------|
| Aluminium (7429-90-5) | TWA | 1 mg/m ³ | Respirable fraction. |

U.S. - OSHA

| Components | Type | Value | Form |
|-----------------------|------|----------------------|--------------------|
| Aluminium (7429-90-5) | PEL | 5 mg/m ³ | Respirable dust. |
| | | 15 mg/m ³ | Total dust. |
| | TWA | 5 mg/m ³ | Fume. |
| | | 5 mg/m ³ | Respirable dust. |
| | | 15 mg/m ³ | Total dust. |
| | | 5 mg/m ³ | Pyrophoric powder. |

Canada - Alberta

| Components | Type | Value | Form |
|-----------------------|------|----------------------|--------------------|
| Aluminium (7429-90-5) | TWA | 5 mg/m ³ | Pyrophoric powder. |
| | | 5 mg/m ³ | Welding fume. |
| | | 10 mg/m ³ | Dust. |

Canada - British Columbia

| Components | Type | Value | Form |
|-----------------------|------|----------------------|----------------------|
| Aluminium (7429-90-5) | TWA | 3 mg/m ³ | Respirable fraction. |
| | | 10 mg/m ³ | Total dust. |
| | | 5 mg/m ³ | Pyrophoric powder. |

Canada - Ontario

| Components | Type | Value | Form |
|-----------------------|------|---------------------|---------------|
| Aluminium (7429-90-5) | TWA | 5 mg/m ³ | Welding fume. |
| | | 5 mg/m ³ | Dust. |

Canada - Quebec

| Components | Type | Value | Form |
|-----------------------|------|---------------------|---------------|
| Aluminium (7429-90-5) | TWA | 5 mg/m ³ | Welding fume. |
| | | 5 mg/m ³ | |

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| Engineering controls | Provide sufficient ventilation for operations causing dust formation. Observe occupational exposure limits and minimize the risk of exposure to a minimum. |
| Personal protective equipment | |
| Eye / face protection | No special precautions. |
| Skin protection | Gloves, for handling rough edges. |
| Respiratory protection | When engineering controls are not sufficient to lower exposure levels below the applicable exposure limit, use a NIOSH approved respirator for dusts. |
| General hygiene considerations | Handle in accordance with good industrial hygiene and safety practice. Routinely wash work clothing and protective equipment to remove contaminants. Observe any medical surveillance requirements. |

9. Physical & Chemical Properties

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| Appearance | Finished part. |
| Color | Not available. |
| Odor | Not available. |
| Odor threshold | Not available. |
| Physical state | Solid. |
| Form | Solid. |
| pH | Not available. |
| Melting point | 900 - 1200 °F (482.2 - 648.9 °C) (aluminum) |
| Freezing point | Not available. |
| Boiling point | Not available. |
| Flash point | Not available. |
| Evaporation rate | Not available. |
| Flammability | Not available. |
| Flammability limits in air, upper, % by volume | Not available. |
| Flammability limits in air, lower, % by volume | Not available. |
| Vapor pressure | Negligible |
| Vapor density | Not available. |
| Specific gravity | 2.7 (aluminum) |
| Relative density | Not available. |
| Solubility (water) | Insoluble |
| Partition coefficient (n-octanol/water) | Not available. |
| Auto-ignition temperature | Not available. |
| Decomposition temperature | Not available. |

10. Chemical Stability & Reactivity Information

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| Chemical stability | Stable under normal temperature conditions. |
| Conditions to avoid | No special precautions. |
| Incompatible materials | Strong acids, alkalis and oxidizing agents. |
| Hazardous decomposition products | No data available. |
| Possibility of hazardous reactions | Hazardous polymerization does not occur. |

11. Toxicological Information

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| Sensitization | No test data available for the product. |
| Acute effects | Under normal conditions of intended use, this material does not pose a risk to health. |
| Local effects | Exposure to particles from cutting operations may cause mechanical irritation of eyes. Inhalation of metal fumes may cause chronic diseases or disorders of the respiratory system. |
| Chronic effects | No data available. |

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| Epidemiology | Not available. |
| Mutagenicity | No test data available for the product. |
| Reproductive effects | No test data available for the product. |
| Further information | No data available. |

12. Ecological Information

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| Ecotoxicity | The product is not expected to be hazardous to the environment. |
| Persistence and degradability | The product is not biodegradable. |

13. Disposal Considerations

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| Disposal instructions | Disposal recommendations are based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal. |
| Contaminated packaging | Dispose of in accordance with local regulations. |

14. Transport Information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

TDG

Not regulated as dangerous goods.

15. Regulatory Information

US federal regulations

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration

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|---------------------------|-------|
| Aluminium (CAS 7429-90-5) | 1.0 % |
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US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

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|---------------------------|---------|
| Aluminium (CAS 7429-90-5) | Listed. |
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CERCLA (Superfund) reportable quantity (lbs)

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

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| Hazard categories | Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No |
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| Section 302 extremely hazardous substance | No |
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| Section 311 hazardous chemical | No |
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| Drug Enforcement Agency (DEA) | Not controlled |
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| WHMIS status | Non-controlled |
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WHMIS labeling

Inventory status

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|----------------------|--|------------------------|
| Australia | Australian Inventory of Chemical Substances (AICS) | Yes |
| Canada | Domestic Substances List (DSL) | Yes |
| Canada | Non-Domestic Substances List (NDSL) | No |
| China | Inventory of Existing Chemical Substances in China (IECSC) | Yes |
| Europe | European Inventory of Existing Commercial Chemical Substances (EINECS) | Yes |
| Europe | European List of Notified Chemical Substances (ELINCS) | No |

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|-----------------------------|---|------------------------|
| Japan | Inventory of Existing and New Chemical Substances (ENCS) | No |
| Korea | Existing Chemicals List (ECL) | Yes |
| New Zealand | New Zealand Inventory | Yes |
| Philippines | Philippine Inventory of Chemicals and Chemical Substances (PICCS) | Yes |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes |

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

State regulations

US - New Jersey Community RTK (EHS Survey): Reportable threshold

Aluminium (CAS 7429-90-5) 500 LBS

US - Pennsylvania RTK - Hazardous Substances: Listed substance

Aluminium (CAS 7429-90-5) Listed.

16. Other Information

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| Further information | HMIS® is a registered trade and service mark of the NPCA. I - Safety Glasses, Gloves, Dust, Vapor Respirator |
| HMIS® ratings | Health: 0 Flammability: 0 Physical hazard: 0 |
| NFPA ratings | Health: 0 Flammability: 0 Instability: 0 |
| Disclaimer | This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment. |
| Issue date | 03-19-2009 |