



# AMERICAN TOOTH INDUSTRIES

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## SAFETY DATA SHEET

### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

<b>PRODUCT NAME</b>	Lingual Bladed Teeth by Levin
<b>Product Description</b>	Metal Cusp for Lingual Bladed Teeth
<b>Manufacturer</b>	American Tooth Industries 1200 Stellar Drive Oxnard, CA 93033 805-487-9868 Emergency Phone Number: Infotrac: 800-352-5053
<b>Recommended use</b>	For dentures and partials.
<b>Restrictions on use</b>	N/A

### 2. HAZARDS IDENTIFICATION

The products this safety data sheet refers to, are in the form of massive metallic alloy and when used under usual conditions, they are generally not considered hazardous to man or environment.

In case the products undergo to any process that causes the change in the state of the raw material, the following health hazards shall be applied to the personnel involved in the raw material's processing and not to the final user.

Prolonged and repeated exposure to dust and fumes, generated from successive working processes of the products involving grinding, melting, brazing, thermal treatment, welding and pickling or any other process that causes a release of dust or fumes, could cause potential human health hazards.

The following is a list of potential health effects for hazardous elements that are possibly contained in stainless steel alloys and which may be inhaled, swallowed or get in contact with skin and eyes.

*Iron oxide:* it has caused irritation of the eyes, nose, and skin of test animals. It may have the same effect on humans.

*Chromium:* ferrochrome alloys have been associated with lung changes in workers exposed to these alloys. Chromium is classified by IARC<sup>2</sup> as a suspect carcinogenic agent.

*Manganese:* inhalation of manganese fume may cause "metal fume fever" with symptoms of chills, fever, nausea, cough, dry throat, weakness, muscle aches and a sweet or metallic taste in the mouth. Prolonged or repeated exposure may affect the nervous system, with difficulty in walking and balancing, weakness or cramps in the legs. Hoarseness of the voice, trouble with memory or judgment, unstable emotions or unusual irritability. The respiratory system may also be affected by a pneumonia like illness with symptoms of coughing, fever, chills, body ache, chest pain and other common signs of pneumonia.

*Nickel:* fumes are respiratory irritants and may cause respiratory disease. Skin contact can also cause an allergic skin rash. Nickel and its compounds have been reported to cause cancer of the lungs and sinuses. Nickel is classified by IARC as a suspect carcinogenic agent.

Nickel is classified by EC Directive 67/548/EEC and further modifications as suspect carcinogen (category 3 – R40) and a skin sensitizer (R43). The classification rules of the European Directive 99/45/EC and further modifications state that all preparations containing 1% Nickel or more must be automatically classified as suspect carcinogen (R40).

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical composition %

Steel type	Elements									
	C	Si	Mn	P	S	Cr	Mo	Ni	others	Fe
AISI 316L	≤0.03	≤1.00	≤2.00	≤0.045	≤0.030	16.0-18.0	2.00-3.00	10.00-14.00	-	rest
CAS <sup>2</sup> Number of the elements	1333-86-4	7440-21-3	7439-96-5	7723-14-0	7704-34-9	7440-47-3	7439-98-7	7440-02-0	-	7439-89-6

Information on hazardous ingredients<sup>4</sup> basing upon their concentration in the preparation

EC <sup>3</sup> Number								231-111-4		
Hazard symbols <sup>6</sup>	-	-	-	-	-	-	-	Xn	-	-
R <sup>7</sup> Phrases	-	-	-	-	-	-	-	R40-43	-	-

\*Specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret is required.

### 4. FIRST AID MEASURES

- Not applicable to the finished products this safety data sheet refers to.
- The following warnings are applied in case the products are modified through processes involving a change in the state of the raw material:  
Inhalation: move person to fresh air until recovered. Consult a physician.  
Ingestion: while ingestion of large enough quantities to cause health effects is unlikely, consult a physician if it occurs.  
Skin contact: wash with water and mild detergent.  
Eye contact: flush thoroughly with water, consult a physician.

### 5. FIRE-FIGHTING MEASURES

- The finished products this safety data sheet refers to, are not flammable.
- The following warnings are applied in case the products are modified through processes involving a change in the state of the raw material:  
Metal dust dispersed in the air may cause fire or explosion hazards. Molten metal may ignite combustibles.  
Suitable extinguishing media: use fire-fighting measures suitable to the environment.  
Unsuitable extinguishing media: not applicable.  
Special hazards caused by material, its combustion's products or flue gases: fume of metal oxide.  
Protection for fire-fighters: put on breathing apparatus.  
Further information: collect contaminated fire fighting water separately. It must not enter the sewerage.

### 6. ACCIDENTAL RELEASE MEASURES

- The finished products this safety data sheet refers to, if dispersed, may be picked up with mechanical means.
- The following warnings are applied in case the products are modified through processes involving a change in the state of the raw material:  
Personal precautions: avoid breathing in fumes and dust and use protection as described at section 8.  
Protection precautions: do not allow product to reach sewage system or water bodies.  
Measures for cleaning: collect dust and waste material. Dispose of according to section 13.

### 7. HANDLING AND STORAGE

- The finished products this safety data sheet refers to, have to be restricted to skilled and licensed professionals.
- The following warnings are applied in case the products are modified through processes involving a change in the state of the raw material:  
Prevent formation of dust. If dust/fume is developed, avoid breathing dust/fume. Avoid skin and eye contact. Make sure that all applicable workplace limits are observed.

**Storage:** Specific storage measures are not necessary.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits for finished products related to this safety data sheet are not known. Exposure limits, if applicable, apply to dust and fume of some constituent elements and certain of their compounds as generated from the working processes listed in section 2. Exposure limits are stated by local laws, consult your Occupational Safety and Health Authorities. Herewith the limits outlined by ACGIH8 in the USA:

Carbon (C), occupational exposure limit (TWA): 50ppm (monoxide)

Silicon (Si), occupational exposure limit (TWA): 10 mg/m<sup>3</sup>

Manganese (Mn), occupational exposure limit (TWA): 5.0 mg/m<sup>3</sup>

Chromium (Cr), occupational exposure limit (TWA): 0.5 mg/m<sup>3</sup>

Molybdenum (Mo), occupational exposure limit (TWA): 10 mg/m<sup>3</sup>

Copper (Cu), occupational exposure limit (TWA): 1.0 mg/m<sup>3</sup>(powder), 0.2 mg/m<sup>3</sup>(fumes)

Iron (Fe), occupational exposure limit (TWA): 5.0 mg/m<sup>3</sup>(oxide)

Nitrogen (N), occupational exposure limit (TWA): 3ppm (dioxide)

Nickel (Ni), occupational exposure limit (TWA): 1.0 mg/m<sup>3</sup>; 0.5 mg/m<sup>3</sup> in Germany; 1.0 mg/m<sup>3</sup> in Italy.

The following control measures should be taken in case the product undergoes the processes listed in section 2.

- Personal protection:

Ventilation: should the processes generate dust or fumes, use a local ventilation and suction system, to maintain the concentrations of dust and fumes transported by the air below the limit values outlined by the local authorities.

Respiratory protection: should the processes generate dust or fumes higher than the maximum exposure limit, special approved breathing apparatus against dust and fumes transported by the air should be worn.

Protective equipment: gloves and protective barrier creams may be necessary to prevent skin sensitization and dermatitis. If your processes involve grinding or any other action that causes the release of dust or fumes, approved protective or safety glasses should be worn.

-Environmental precautions: do not allow product to reach sewage system or water bodies.

-Cleaning methods: collect dust and waste material. Dispose of according to section 13.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Massive form
<b>Color</b>	Metal-silver grey
<b>Odor</b>	Odorless
<b>Odor Threshold</b>	N/A
<b>pH</b>	N/A
<b>Melting Point</b>	Not determined
<b>Freezing Point</b>	N/A
<b>Initial Boiling Point</b>	Not determined
<b>Boiling Range</b>	N/A
<b>Flash Point</b>	N/A
<b>Evaporation Rate</b>	N/A
<b>Flammability (solid, gas)</b>	N/A
<b>Upper/Lower Flammability limits</b>	N/A
<b>Explosive Limits</b>	N/A
<b>Vapor Pressure</b>	N/A
<b>Vapor Density</b>	> 3 g/cm <sup>3</sup>

<b>Relative Density</b>	N/A
<b>Solubility</b>	Insoluble in water
<b>Partition Coefficient: n-octano/water</b>	N/A
<b>Auto-ignition Temperature</b>	N/A
<b>Decomposition Temperature</b>	N/A
<b>Viscosity</b>	N/A

## 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	N/A
<b>Chemical Stability</b>	N/A
<b>Hazardous Reactions</b>	Not known
<b>Conditions to avoid</b>	None
<b>Materials to avoid</b>	None
<b>Hazardous Decomposition Products</b>	Metal Oxide fume

## 11. TOXICOLOGICAL INFORMATION

Acute toxicity:	See hazards outlined in section 2.
Sensitization:	Possible by skin conduct
Chronic Toxicity:	See hazards outlined in section 2.

## 12. ECOLOGICAL INFORMATION (If available)

Do not dispense if in the environment; slightly hazardous for water.

## 13. DISPOSAL CONSIDERATIONS (If applicable)

Dispose of in accordance with local and national regulations. In Italy dispose of according to Legislative Decree of April 3 2006 no. 152 "Regulations on environmental subject", application of European Directives on environmental protection, and subsequent modifications and integrations. Do not dispose of together with household garbage, do not allow product to reach sewage and water bodies. Recycling possibility must be verified in accordance with local and national regulations.

## 14. TRANSPORT INFORMATION (If applicable)

The product is not hazardous within the meaning of transport regulations.

## 15. REGULATORY INFORMATION (If available)

Health, safety and environmental information shown on the label according to European Directives on hazardous materials and substances. There is no obligation to label the product. Information related to further dispositions, none.

## 16. OTHER INFORMATION

Hazard symbols:	Xn	Harmful
Risk phrases:	R 40 R 43	Limited evidence of a carcinogenic effect May cause sensitization by skin contact further advice on the preparation:
Safety phrases:	S 22 S 36/37	Do not breathe dust Wear suitable protective clothing and gloves are not shown on the product label.

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