

**LEACH & DILLON PRODUCTS  
161 COMSTOCK PARKWAY  
CRANSTON, R.I. 02921  
#401-464-5850  
FAX # 401-464-5862**

**MATERIAL SAFETY DATA SHEET**

Date: 6/21/95

MSDS #005

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**1. PRODUCT IDENTIFICATION**

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**Product Name:** Tech Star

**Other Designations:** N/A

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**2. INGREDIENTS**

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	CAS #	OSHA PEL		ACGIH TLV		%
		TWA	STEL/CEIL	TWA	STEL/CEIL	
Nickel	7440-02-2	1 mg/m3	N/A	0.05 mg/m3	N/A	60-80
Chromium	7440-47-3	1 mg/m3	N/A	0.5 mg/m3	N/A	10-25
Molybdenum	7439-98-7	10 mg/m3	N/A	10 mg/m3	N/A	5-10
Beryllium	7440-41-7	0.002 mg/m3	0.005*mg/m3	0.002 mg/m3	N/A	0-7.8
Aluminum	7429-90-5	5**mg/m3	N/A (dust)	10 mg/m3	N/A	0-2
Silicon	7440-21-3	5**mg/m3	N/A	10 mg/m3	N/A	0-1
Iron	7439-89-6	10 mg/m3	N/A(oxide fume)	5 mg/m3	N/A	0-0.5
Niobium	7440-03-1	N/A	N/A	N/A	N/A	0-1

\*The concentration that shall not be exceeded during any part of the working exposure. (0.025mg/m3, 30 min. per 8 hr. shift)

\*\*Respirable fraction

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**3. PHYSICAL DATA**

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**Boiling Point:** >1500°C

**Melting Point:** 1200°-1310°C

**Vapor Pressure:** N/A

**Vapor Density:** N/A

**Specific Gravity:** 7.8-8.2

**Solubility in Water:** Insoluble

**Appearance and Color:** Steel grey solid, sold as 3-6 gram pcs. **Odor:** No odor

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**4. FIRE AND EXPLOSION HAZARD DATA**

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**Flash Point (Method Used):** Non-flammable metal

**Flammable Limits:** N/A LEL UEL

**Extinguishing Media:** Do not use water on this material. As applicable for surrounding fire.  
**Special Fire Fighting Procedures:** Wear self-contained breathing apparatus.  
**Unusual Fire and Explosion Hazard:** Fine dust or powder may ignite at high temperatures. Toxic fumes.

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MSDS LD#005

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## 5. REACTIVITY DATA

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**Stable:** Yes  
**Hazardous Polymerization:** Will not occur.  
**Incompatibility:** Oxidizers  
**Conditions to avoid:** N/A  
**Hazardous Decomposition:** Possible metal and metal oxide fumes

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## 6. HEALTH HAZARD DATA

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<b>Inhalation:</b>	Acute:	None known
	Chronic:	None known
	First Aid:	Remove from exposure
<b>Ingestion:</b>	Acute:	None known
	Chronic:	None known
	First Aid:	Seek medical attention.
<b>Skin:</b>	Acute:	None known.
	Chronic:	Some people may develop eczema from contact
	First Aid:	Wash with soap and water
<b>Eyes:</b>	Acute:	May cause irritation
	Chronic:	None known
	First Aid:	Flush with water for 15 mins. including water under the eyelids

**Medical Conditions Generally Aggravated by Exposure:** No information available

**Carcinogenicity:** Not available.

**Signs and Symptoms of Exposure:** Dermatitis

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## 7. PRECAUTIONS FOR SAFE HANDLING

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**Steps to be Taken in Case of a Spill or Leak:** Sweep, avoiding excessive generation of dust, or vacuum, place in metal safety can.

**Disposal:** According to all Federal, State, and local regulations.

**Precautions to be Taken in Handling & Storing:** Keep container closed and store in a cool, dry area.

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## 8. CONTROL MEASURES

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**Ventilation and Respiratory Protection:** Appropriate NIOSH respirator in poorly ventilated areas, local exhaust.

**Other Protective Equipment:** Gloves, safety glasses (approved glasses during melting)

**Work/Hygienic Practices:** Avoid inhalation or ingestion. Practice good housekeeping. Avoid eating and smoking in the work area. Wash thoroughly before eating and smoking. No smoking.

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## 9. SUPPLIER INFORMATION

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Information and data are taken from sources believed to be reliable and correct, but cannot be warranted by manufacturer. User is responsible to determine suitability of material for specific application.