



**MATERIAL SAFETY DATA SHEET**

Product Identity: Brazing Rope AMS4776, AMS4777, AMS4778, AMS4779, AMS4782, B50TF81, B50TF142, B50TF143, B50TF204-S6, BNi-2, BNi-3, BNi-4, BNi-5, BNi-6.

**SECTION I**

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Manufacturer's Name: Aimtek, Inc.  
 Address: 201 Washington Street  
 Auburn, MA 01501  
 USA  
 Emergency/Information Telephone Number: (508)832-5035

Date Prepared: Nov. 4, 2015

**SECTION II**

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Hazardous Ingredients/Identity Information

Each Brazing Rope contains one or more of the following metals contained in a non- hazardous binder:

The Test Certification Sheet should be consulted for details and composition of specific alloys.

<u>Hazardous Components</u>	<u>CAS Registry No.</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Nickel	7440-02-0	1 MG/M3	1 MG/M3
Copper	7440-50-8	1 MG/M3	1 MG/M3
Chromium	7440-47-3	1 MG/M3	0.5 MG/M3
Manganese	7439-96-5	5 MG/M3	5 MG/M3
			(ceiling)
Silicon	7440-21-3	15 MG/M3	10 MG/M3
Molybdenum	7439-98-7	15 MG/M3	1MG/M3
Iron	7439-89-6	10MG/M3	5 MG/M3
Tungsten	7440-33-7	-----	5 MG/M3
Vanadium (V2 O5)	1314-62-1	.5 MG/M3	.05 MG/M3
Cobalt	7440-48-4	.1 MG/M3	.1 MG/M3
Titanium	7440-32-6	20 MG/M3	10 MG/M3
Aluminum	7429-90-5	-----	10 MG/M3
Boron	7440-42-8	15 MG/M3	10 MG/M3
Palladium	7440-05-03	None Listed	None Listed



### SECTION III

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#### Physical/Chemical Characteristics

Boiling Point:	N/A (Not Applicable)
Vapor Pressure (mm Hg):	N/A
Vapor Density (Air=1):	N/A
Solubility in Water:	Insoluble
Specific Gravity (H <sub>2</sub> O=1):	7.5 – 13.5
Melting Point:	N/A
Evaporation Rate (Butyl Acetate =1):	0
Appearance and Odor:	Gray rope of carrying diameter. No odor.

### SECTION IV

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#### Fire and Explosion Hazard Data

Flash Point: N/A

Flammable Limits: N/A

A. LEL : N/A

B. UEL: N/A

Extinguishing Media:

Rope Form – N/A

Powder Form – dry chemical, cover with inert powder such as dry sand or limestone to exclude oxygen.

Special Fire Fighting Procedures:

Rope Form – N/A

Powder Form – Avoid dust generation, avoid inhalation of dust and/or fumes generated during fire fighting activities.

Unusual Fire & Explosion Hazards:

Rope Form – N/A

Powder Form – powder/dust may present a fire or explosion hazard under favoring conditions of particle size, dispersion and strong ignition source.



## SECTION V

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Reactivity Data

Stability: Stable

Conditions to Avoid: N/A

Incompatibility (Materials to Avoid): Strong oxidizers and acids.

Hazardous Decomposition or Byproducts: Oxide fumes and hydrogen gas.

Hazardous Polymerization: Will not occur.

## SECTION VI

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Health Hazard Data

Route(s) of Entry:

Rope Form – Skin contact

Powder Form – May be inhaled, swallowed or come in contact with skin or eyes.

Health Hazards (Acute and Chronic):

Rope Form – Skin contact can cause irritation or allergic skin rash to individuals sensitive to nickel and/or chromium.

Powder Form – Inhalation may cause irritation of the nose, throat and respiratory tract. Inhalation of dust containing nickel and/or chromium has the dust potential to cause nasal and/or lung cancer. Skin contact can cause irritation or allergic skin rash to individuals sensitive to nickel and/or chromium. Eye contact may cause irritation. Amounts ingested incidental to industrial handling are not likely to cause injury.

Carcinogenicity (NTP Annual Report, IARC Monographs):

Nickel and chromium have been identified as suspected carcinogens by the NTP and IARC.

Signs and Symptoms of Exposure:

Rope Form – Irritation or rash of the skin.

Powder Form – Metallic taste, nausea, tightness of chest, fever, irritation of eyes, nose, throat and skin.

Medical Conditions Generally Aggravated by Exposure:

Rope Form – Skin sensitivity.

Powder Form – Skin sensitivity, aggravation of pre-existing respiratory conditions.



Emergency and First Aid Procedures:

**Rope Form –**

Skin contact : If irritation or rash occurs, thoroughly wash affected area with mild soap and water. Prevent further contact. If irritation or rash persists, seek medical attention.

**Powder Form –**

Skin contact : If irritation or rash occurs, thoroughly wash affected area with mild soap and water. Prevent further contact. If irritation or rash persists, seek medical attention.

Inhalation : Remove to fresh air. If pulmonary involvements develop (coughing, wheezing, shortness of breath, etc.) and persist, seek medical attention.

Eye contact : If irritation occurs, flush with copious amounts of water. If irritation persists, seek medical attention.

Ingestion : Induce vomiting if large amounts are ingested. Seek medical attention.

**SECTION VII**

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Precautions for Safe Handling and Use

Steps to be taken in case material is released or spilled:

Rope Form – N/A

Powder Form – Powder/dust may accumulate during subsequent operations such as abrading, brazing and cutting. Clean up using methods which avoid dust generation such as vacuuming (with appropriate filter to prevent airborne dust levels which exceed the PEL or TLV), wet mop or wet clean-up. If airborne dust is generated, use appropriate NIOSH approved respirator.

Waste Disposal Method:

Dispose of in accordance with appropriate Federal, State and Local Regulations.

Precautions to be taken in Handling and Storing:

Do not store near strong oxidizers or acids.

Other Precautions: N/A



## SECTION VIII

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### Control Measures

#### Respiratory Protection:

Rope Form – None

Powder Form – Use an appropriate NIOSH approved respirator if airborne dust or fumes exceed the appropriate PEL or TLV.

#### Ventilation:

Rope Form – N/A

Powder Form – Use local exhaust ventilation which is adequate to limit personal exposure to levels which do not exceed the PEL or TLV. If such equipment is not available, use respirators as specified above.

#### Protective Gloves:

Wear impervious gloves to prevent skin contact with actual metal content of tape.

#### Eye Protection:

Rope Form – N/A

Powder Form – Wear approved safety glasses or goggles.

#### Other Protective Clothing or Equipment:

As required.

#### Work/Hygienic Practices:

Rope Form – N/A

Powder Form – Wash thoroughly after handling and before eating or smoking. Avoid dust/fume inhalation and direct skin contact. Use good housekeeping practices to prevent accumulation of dust.

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