



Safety Data Sheet

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1. IDENTIFICATION

Product: ALUMEL® P/Ns: 952398.901, 952500.901	MSDS #: 901142.001
Product Use: For laboratory use only.	Date: Rev D, December 14, 2012

2. HAZARDS IDENTIFICATION:

The product is not hazardous in the form in which it is placed on the market and under the normal and recommended conditions of storage and use. The product is considered an article and is not dangerous according to the criteria set by the European Union (EU) or GHS.

The small quantities supplied in our products are unlikely to cause severe or immediate health effects. Use only as directed and in accordance with safe laboratory practices.

3. COMPOSITION/INFORMATION ON INGREDIENTS:

CHEMICAL INGREDIENT NAME	CAS NUMBER	EC NUMBER	% by Weight	EXPOSURE LIMITS		
				OSHA	ACGIH	EU IOELV
Nickel	7440-02-0	231-114-4	96	1.0 mg/m ³	1.5 mg/m ³	NA
Aluminum	7429-90-5	231-072-3	2	15 mg/m ³ Total dust; 5 mg/m ³ Respirable fraction	1.0 mg/m ³	NA
Manganese	7439-95-4	231-104-6	2	5.0 mg/m ³ C	0.2 mg/m ³	NA

Notes: Product is a vial containing twelve wire pieces, approximately 5.5 mm in length by 1 mm in diameter to be used only for the purpose of temperature calibration of thermal analysis equipment. Exposure Limits are 8-Hour TWA. (Time Weighted Average) unless designated C (Ceiling) or STEL (Short Term Exposure Limit).

4. FIRST AID MEASURES:

Inhalation: No special measures required.
 Skin Contact: No special measures required. Wash or flush with water.
 Eye Contact: Get medical attention
 Ingestion: Get medical attention.

After following first aid measures, seek medical attention.

5. FIRE-FIGHTING MEASURES:

Flammable Properties: Non flammable.
 Extinguishing Media: Dry chemical, carbon dioxide or appropriate foam.
 Unique Aspects Contributing To a Fire: None.
 Special Fire Fighting Procedures: None.
 Note: As in any fire, wear self-contained breathing apparatus, and full protective gear.

6. ACCIDENTAL RELEASE MEASURES: Due to small quantities involved, spills or leaks should not pose a significant problem. Sweep up and place wastes into closed containers for proper disposal.

7. HANDLING AND STORAGE: Handle as directed and in accordance with safe laboratory practices.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

Handle in accordance with safe laboratory practices.

Respiratory Protection: Not normally needed.
 Eye Protection: Safety glasses with side protection.
 Skin Protection: No special requirements. Disposable nitrile are acceptable for light intermittent exposure.
 Engineering Controls: No special requirements.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance: Gray-silver metal

Physical State: Solid	Flash Point: NA	Vapor Pressure: NA
Odor: None	Explosion Limits: NA	Vapor Density (air=1): NA
pH: NA	Boiling Point: NA	Solubility in Water: Insoluble
Specific Gravity: 8.6 g/mL	Melting Point: 2652 °F (1455 °C)	Other: NA

10. STABILITY AND REACTIVITY:Hazardous Polymerization Will Not Occur May Occur

Stability: Stable

Hazardous Decomposition/Combustion Products:

Nickel oxides

Conditions & Materials to Avoid:

Acids, oxidizing agents, sulfur

11. TOXICOLOGICAL INFORMATION:

When used and handled according to directions, the product does not have any harmful effects according to our experience and the information provided to us. However nickel is harmful as a dust or fume and is suspected of causing cancer upon inhalation and of causing sensitization upon contact.

Primary Route(s) of Exposure under Normal Use: None.

Target Organ(s): NA

Acute Effects: NA

Chronic Effects: NA

Other Information: Chemical Ingredient (nickel metal) is classified as a carcinogen by IARC (group 2B), NTP (Group 2), and California. Warning: This product contains a chemical (nickel metal) known to the state of California to cause cancer. As long as product is used as directed, there will be no airborne or other exposure to nickel and no significant risk of causing cancer or other reproductive harm.

12. ECOLOGICAL INFORMATION: NA

13. DISPOSAL CONSIDERATIONS: Consult state, local or national regulations for proper disposal. The U.S. Environmental Protection Agency (EPA) does not classify unused product as hazardous waste.

14. TRANSPORT INFORMATION: Not Dangerous Goods. Not Regulated.**IATA/ICAO:** Shipping Name: NA

Hazard Class: NA

UN/NA #: NA

Packing Group #: NA

IMDG: NA

ADR: NA

15. REGULATORY INFORMATION:**U.S. TOSCA:** Listed

Canada: This product has been classified according to the hazard criteria of the Controlled Product Registration (CPR) and this SDS contains all the information required by the CPR.

16. OTHER INFORMATION:**U.S. EPA****National Fire Protection Association Rating****SARA 313 Chemicals****CERCLA RQ**

4=Severe Hazard

HEALTH

NA

Nickel

Nickel: 100 lbs

3=Serious Hazard

FLAMMABILITY

NA

Aluminum

None

2=Moderate Hazard

REACTIVITY

NA

Manganese

Manganese: 10 lbs

1=Slight Hazard

OTHER

NA

0=Minimal Hazard

Notes, abbreviations and acronyms:

ACGIH: American Conference of Governmental Industrial Hygienists

ADR: European Agreement concerning the International Carriage of

Dangerous Goods by Road

CAS: Chemical Abstracts Service (division of the American Chemical Society)

EC: European Commission

EU IOELV: European Union Indicative Occupational Exposure Limit Values

GHS: Globally Harmonized System of Classification and Labeling of Chemicals

IATA: International Air Transport Association

IMDG: International Maritime Code for Dangerous Goods

NA: Not Available.

OSHA: Occupational Safety and Health Administration

For laboratory use only. Not for drug, household or other uses.

The information contained herein has been compiled from data presented in various technical sources believed to be accurate. Waters makes no warranties and assumes no liability in connection with the use of this information. It is the user's responsibility to determine the suitability of this information and to assure the adoption of necessary precautions.