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MATERIAL SAFETY DATA SHEET

Section #1 - Product Identification

MSDS Number: 011	Issue Date: 04/11/2003 Revision Date:
Trade Name: Ni-Ru	Synonyms: 85Ni-15Ru
Chemical Family: Metal	

Section #2 - Product Composition

Element	Concentration	CAS Number	RTECS Number	OEL's TLV (mg/m ³) as TWA
Nickel	85%	7440-02-0	QR5950000	1
Ruthenium	15%	7440-18-8	Not Available	Not Available

Section #3 - Physical Properties

Appearance: Odorless, silver gray solid	Relative Density (water): ~8.9
Melting Point: ~ 1500 degrees C	Solubility (water): none

Section #4 - Fire, Explosion, and Reactivity Data

1. This material is not flammable in the form in which it is supplied.
2. This material is stable, however, it should not be stored with strong acids. Contact with such materials may cause release of hazardous compounds.

Section #5 - Health Hazard Information

Specific information for this alloy does not exist, so information is included for each major constituent.

Nickel

	Eyes	Skin	Inhalation	Ingestion
Symptoms	None listed	None listed	None listed	None listed

Prevention	Face shield or goggles in combination with respiratory protection	Protective gloves and clothing	Local exhaust equipment or approved respirator	Do not eat, drink or smoke during work.
First Aid	First, Rinse with plenty of water for several minutes (remove contact lenses, if possible), then take to a doctor	Remove contaminated clothes. Rinse skin with plenty of water or shower.	Refer to doctor for medical attention Fresh air, rest	Rinse mouth, seek medical attention

Ruthenium

	Eyes	Skin	Inhalation	Ingestion
Symptoms	Irritation	None	None	None
Prevention	Wear protective goggles	Wear protective gloves	Use local exhaust or wear respirator	Do not eat drink, or smoke while handling product
First Aid	Rinse open eye for several minutes under running water. If symptoms persist, consult a doctor	Wash with water.	Move to fresh air, consult doctor if trouble breathing	Rinse mouth, seek medical treatment.

Section # 6 - Spill, Leak, & Disposal Information

Specific information for this alloy does not exist, so information is included for each major constituent.

Nickel

Vacuum or otherwise collect spilled material, then remove to a safe place. Use a P2 filter respirator for harmful particles.

Ruthenium

Vacuum or otherwise collect spilled material, then remove to a safe place. Use a P2 filter respirator for harmful particles.

Section #7 - Special Precautions

None listed

The information listed above is given in good faith, but no warranty expressed or implied is made. The information is based upon data believed to be correct when the MSDS was written. ISA accepts no responsibility or liability for any harmful effects which may be caused by purchase, sale, use or exposure to our product.

References:

International Chemical Safety Cards downloaded from www.cdc.gov/niosh/ipcs