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## MATERIAL SAFETY DATA SHEET

### Section #1 - Product Identification

<b>MSDS Number: 007</b>	<b>Issue Date:</b> 04/08/2003 <b>Revision Date:</b>
<b>Trade Name:</b> <b>Vanadium Metal Powder</b>	<b>Synonyms:</b>
<b>Chemical Family:</b> Metal	

### Section #2 - Product Composition

Element	Concentration	CAS Number	RTECS Number	OEL's TLV (mg/m <sup>3</sup> ) as TWA
Vanadium	100%	7440-62-2	YW2450000	1

### Section #3 - Physical Properties

<b>Appearance:</b> Odorless, silver gray solid	<b>Relative Density (water):</b> ~6.1
<b>Melting Point:</b> ~1900 degrees C	<b>Solubility (water):</b> none

### Section #4 - Fire, Explosion, and Reactivity Data

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

## Section #5 - Health Hazard Information

This material is irritating to the eyes. Tumorigenic effects have been observed in animal studies. Full toxicity of this material is not fully known

### Vanadium

	Eyes	Skin	Inhalation	Ingestion
Symptoms	Redness	Redness	Coughing	Not fully known
Prevention	Face Shield, goggles	Protective gloves	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

## Section # 6 - Spill, Leak, & Disposal Information

Dispose of any spilled material as required by local regulation.

### Vanadium

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

## Section #7 - Special Precautions

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](http://www.cdc.gov/niosh/ipcs)