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## MATERIAL SAFETY DATA SHEET

### Section #1 - Product Identification

<b>MSDS Number: 010</b>	<b>Issue Date:</b> 04/11/2003 <b>Revision Date:</b>
<b>Trade Name:</b> <b>Al-Mo-V</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
Aluminum		7429-90-5	BD0330000	5
Molybdenum				
Vanadium		7440-62-2	XR2275000	1

### Section #3 - Physical Properties

<b>Appearance:</b> Odorless, silver gray solid	<b>Relative Density (water):</b> ~7.4
<b>Melting Point:</b> ~1400 degrees C	<b>Solubility (water):</b> 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.

#### Aluminum

	Eyes	Skin	Inhalation	Ingestion
	Irritation			

<b>Symptoms</b>		None	None	None
<b>Prevention</b>	Wear protective goggles	Wear protective gloves	Use local exhaust or wear respirator	Do not eat drink, or smoke while handling product
<b>First Aid</b>	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.

### Molybdenum

	<b>Eyes</b>	<b>Skin</b>	<b>Inhalation</b>	<b>Ingestion</b>
<b>Symptoms</b>	Irritation	None	None	None
<b>Prevention</b>	Wear protective goggles	Wear protective gloves	Use local exhaust or wear respirator	Do not eat drink, or smoke while handling product
<b>First Aid</b>	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.

### Vanadium

	<b>Eyes</b>	<b>Skin</b>	<b>Inhalation</b>	<b>Ingestion</b>
<b>Symptoms</b>	Irritation	Redness	Coughing	Not fully known
<b>Prevention</b>	Wear protective goggles	Protective gloves	Local exhaust equipment or approved respirator	Do not eat, drink or smoke during work.
<b>First Aid</b>	Rinse open eye for several minutes under running water. If symptoms persist, consult 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

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

### Aluminum

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

### Molybdenum

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

### 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

None known

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)