

**SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**Steel/Iron/Stainless (pin/chip/ring Standards, tubes)**

AR869, AR870, AR871, AR872, AR873, AR874, AR875, AR876, AR878, AR510, AR511, AR512, AR881, AR882, AR883, AR884, AR885, AR886, AR888, AR889, AR890, AR891, AR892, AR893, AR894, AR895, AR896, AR946, AR947, AR948, AR949, AR950, AR951, AR952, AR953, AR954, AR955, AR956, AR957, AR958, AR959, AR960, AR961, AR963, AR546, AR555, AR556, AR558, AR557, AR644, AR645, AR646, AR1647, AR1648, AR1649, AR1650, AR1651, AR1652, AR1653, AR1655, AR1656, AR661, AR660, AR662, AR663, AR659, AR657, AR656, AR654, AR668, AR655, AR669, AR670, AR675, AR676, AR078, AR077, AR467, AR673, AR299, AR300, AR301, AR302, AR303, AR304, AR305, AR306, AR309, AR310, AR315, AR318, AR319, AR322, AR323, AR468, AR10874, AR4078

Alpha Resources, Inc. This product is intended for laboratory use in elemental analysis.

**Alpha Resources Inc. 3090 Johnson Rd. Stevensville, MI 49127 (269)465-5559**

**CHEMTREC Emergency Phone Number: (800) 424-9300**

**Signal Word**

**N/A**

**Pictograms**

**SECTION 2— HAZARDS IDENTIFICATION**

**Steel pin/chip products are not hazardous per OSHA. They're actually considered an article, which requires no SDS. Although if grinding, sawing, or machining occur harmful dust/fumes can form.**

**Hazard Statements:** Dust/fumes may cause an allergic skin reaction (H317). Dust/Fumes suspected of causing cancer via inhalation (H351). Inhalation of dust/fumes causes damage to respiratory tract through prolonged or repeated exposure (H372).

**Precautionary Statements:** Do not handle until all safety precautions have been read and understood (P202).

Avoid breathing dust/fumes (P261). Use personal protective equipment as required (P281). If exposed or concerned, get medical attention/advice (P308+P313).

**SECTION 3— COMPOSITION, INFORMATION ON INGREDIENTS**

Components	CAS No.	% Weight	Exposure Limits			
			ACGIH TLV (mg/m <sup>3</sup> )		OSHA PEL (mg/m <sup>3</sup> )	
<b>Base Metal:</b>						
Iron (Fe)	7439-89-6	Balance	5	Oxide Dust/Fume	10	Oxide Dust/Fume
<b>Alloying Elements</b>						
Aluminum (Al)	7429-90-5	<2	10	Dust	15	Dust
			5	Fume	5	Respirable fraction
Antimony (Sb)	7440-36-0	<0.9	0.5	As Antimony	0.5	As Antimony
Arsenic (As)	7440-38-2	<0.09	0.01	As Arsenic (A1 Carcinogen)	0.01	As Arsenic
Beryllium (Be)	7440-41-7		0.00	As Beryllium (A1 Carcinogen)	0.002	As Beryllium
		<0.09	2	As Beryllium (STEL)	0.005	As Beryllium (Ceiling)
			0.01			
Boron (B)	7440-42-8	<0.9	10	Oxide Dust	15	Oxide Dust

Cadmium	(Cd)	7440-43-9	<0.01	0.01 0.00 2	As Cadmium (A2 Carcinogen) Respirable fraction	0.005 0.0025	As Cadmium As Cadmium (Action Level)
Calcium	(Ca)	1305-78-8	<0.9	2	Oxide Dust	5	Oxide Dust
Carbon	(C)	7440-44-0	<6.2		Not Established		Not Established
Chromium	(Cr)	7440-47-3	0.01-32	0.5	Metal	1	Metal
Cobalt	(Co)	7440-48-4	<0.09	0.02	As Cobalt (A3 Carcinogen)	0.1	Metal/Dust/Fume
Copper	(Cu)	7440-50-8	<5.9	1 0.2	Dust Fume	1 0.1	Dust Fume
Lead	(Pb)	7439-92-1	<0.07	0.05	Dust / Fume (A3 Carcinogen)	0.05	Dust / Fume
Magnesium	(Mg)	7439-95-4	<1.9		Not Established		Not Established
Manganese	(Mn)	7439-96-5	0.2-4	0.2	Elemental Mn and Inorg Compounds	5	Fume (Ceiling)
Molybdenum	(Mo)	7439-98-7	<2.9	10	Insoluble Compounds	15	Insoluble Compounds
Niobium	(Nb)	7440-03-1	<0.9		Not Established		
Nickel	(Ni)	7440-02-0	<1.0 0.1-23	1.5	Metal	1	Metal and Insoluble Compounds
Nitrogen	(N)	7727-37-9	<0.9		Simple Asphyxiant		Simple Asphyxiant
Phosphorus	(P)	7723-14-0	<0.9	0.1	Phosphorus	0.1	Phosphorus
Selenium	(Se)	7782-49-2	<0.9	0.2	Selenium	0.2	Selenium
Silicon	(Si)	7440-21-3	<0.9 0.1-3	10	Dust	15	Dust
Sulfur	(S)	7446-0905	<0.9	5.2 13	Sulfur Dioxide Sulfur Dioxide (STEL)	13	Sulfur Dioxide
Tin	(Sn)	7440-31-5	<0.9	2	Metal,Oxide and Inorganic Compounds	2	Inorganic Compounds
Titanium	(Ti)	7440-32-6	<0.9		Not Established		Not Established
Tungsten	(W)	7440-33-7	<0.9	5 10	Insoluble Compounds as W Insoluble Compounds as W (STEL)		Not Established
Vanadium	(V)	7440-62-2	<0.9	0.05	Oxide Dust/Fume	0.5 0.1	Oxide Dust (Ceiling) Oxide Fume (Ceiling)
Zinc	(Zn)	7440-66-6	0.0-0.10	10 5 10	Oxide Dust OxideFume Oxide Fume (STEL)	5 10	Oxide Fume Oxide Dust

Note: No permissible exposure limits or threshold limit values exist for steel overall. The table above shows the various elements that could be found in our steel pin standards. The many different grades of steel will have a cornucopia of varying elements and concentrations.

## SECTION 4— FIRST AID MEASURES

**If inhaled:** Remove victim to fresh air and keep at rest in a position comfortable for breathing (P304+P340).

**If in eyes:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing (P305+P351+P338). **If eye irritation persists:** Get medical advice or attention (P337+P313).

**If on skin:** Wash with plenty of water.

**If swallowed:** Rinse mouth. Call a POISON CENTER or physician if you feel unwell.

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**SECTION 5 — FIRE FIGHTING MEASURES**

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Non-flammable. Flash Point:N/A Auto-Ignition Temperature: N/A  
**In case of fire:** Use a tri-class dry chemical fire extinguisher.

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**SECTION 6 — ACCIDENTAL RELEASE MEASURES**

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Small or large spill: N/A

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**SECTION 7 — HANDLING AND STORAGE**

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Handling: Proper ventilation and approved breathing protection should be provided if over exposure is possible.  
Storage: Stable under normal laboratory conditions.

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**SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION**

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Wear protective gloves, protective clothing, and eye protection (P280). Wash hands thoroughly after handling (P264).  
Depending on end use consult with federal, state, and local rules.

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**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

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Steel gray to shiny silver.	Odorless.	Specific gravity: 7.6 - 8.2
Soluble: N/A	Melting Point: Approximately 2700°F	

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**SECTION 10 — STABILITY AND REACTIVITY**

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Stability: stable      Incompatibility: N/A

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**SECTION 11 — TOXICOLOGICAL INFORMATION**

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N/A

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**SECTION 12 — ECOLOGICAL INFORMATION**

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Data not yet available.

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**SECTION 13 — DISPOSAL CONSIDERATIONS**

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Please review all federal, state and local regulations that may apply before proceeding.

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**SECTION 14 — TRANSPORT INFORMATION**

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United States Department of Transportation: Not regulated

Hazard class: N/A. UN number: N/A.

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**SECTION 15 — REGULATORY INFORMATION**

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U.S. Federal Regulations

TSCA Status: On Toxic substance control inventory

CERCLA reportable quantity: none

SARA Title III:

Section 311/312 Hazardous Categories: Acute Chronic

RCRA Status: Not regulated

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**SECTION 16 — OTHER INFORMATION**

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The data and information as stated was furnished by the manufacturer/vendor/supplier of this product. Alpha Resources Inc. cannot warrant the accuracy of this information and shall not be responsible or liable for any damage that may result, should any of the information be erroneous.

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