



MATERIAL SAFETY DATA SHEET

SECTION I	MSDS#: AH0903B	
	DATE: May 20, 1999	
MANUFACTURER'S NAME:	Electralloy	
EMERGENCY PHONE/FAX:	Phone: (814) 678-4200	FAX: (814) 676-5876
ADDRESS:	175 Main Street, Oil City, PA 16301	
PRODUCT NAME:	Stainless Steel & Maraging Steel	
CHEMICAL FAMILY:	Steel	
OTHER DESIGNATIONS:	Ingots, Bar, Billet, Plate, Strip, Block, Electrode & Remelt Pig	

SECTION II CHEMICAL COMPONENTS	CAS #	RANGE%	TLV	OSHA PEL
**Nickel	7440-02-0	0-50	1 mg/m ³	1 mg/m ³
Iron (iron oxide)	1309-37-1	0-90	(*2) 5 mg/m ³	10 mg/m ³
**Copper	7440-50-8	0-10	0.2 mg/m ³	0.1 mg/m ³
**Chromium	7440-47-3	0-40	5 mg/m ³	1 mg/m ³
**Molybdenum	7439-98-7	0-30	5 mg/m ³	5 mg/m ³
Tungsten	7440-33-7	0-5	5 mg/m ³	None
**Cobalt	7440-48-4	0-20	0.1 mg/m ³	0.1 mg/m ³
Silicon	7440-21-3	0-5.0	None	None
Sulfur	7446-09-5	0-0.5	None	5 mg/m ³
**Manganese	7439-96-5	0-25	5 mg/m ³	5 mg/m ³
Titanium	13463-67-7	0-5.0	15 mg/m ³ (*1-*2)	5 mg/m ³
**Aluminum	7429-90-5	0-10	10 mg/m ³	None
Carbon	1333-86-4	0-3	3.5 mg/m ³	3.5 mg/m ³
Vanadium	1314-62-1	0-1.0	(*1) .50 mg/m ³	.05 mg/m ³
		0-1.0	(*2) .10 mg/m ³	.05 mg/m ³
Phosphorus	7723-14-0	0-0.5	.1 mg/m ³	.1 mg/m ³
Columbium	None	0-2	None	None
*PNOC		0-10	10 mg/m ³	15 mg/m ³
PNOC Respirable		0-10	3 mg/m ³	5 mg/m ³

N/A = NOT APPLICABLE
UN = UNKNOWN
* PNOC = Particles not otherwise classified.
**SARA Title III, Section 313 Reportable.

(*1) - Limits for Dust
(*2) - Limits for Fumes



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SECTION VI

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REACTIVITY DATA

(X) Stable () Unstable Conditions to Avoid: N/A
 Incompatibility (materials to avoid): N/A
 Decomposition Products: N/A
 Hazardous () May occur Conditions to Avoid : N/A
 Polymerization (X) Will not occur

SECTION VII

SPILL OR LEAK PROCEDURE

Steps to be taken in case material is released or spilled: N/A
 Waste disposal method: Dispose in accordance with federal, state, local regulations.
 Precautions to be taken in handling and storage: N/A

SECTION VIII

PERSONAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:

For welding, burning, grinding, and cutting operations, local ventilation should be provided. If fumes or dust cannot be controlled with exhaust ventilation, an appropriate NIOSH - approved respirator should be used to prevent excessive inhalation exposure.

GLOVES: Gloves may be necessary to prevent skin sensitization and dermatitis.

EYE PROTECTION: Approved safety glasses or goggles should be worn when working with dusty metals.

PREPARED BY: ELECTRALLOY

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