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Trade Name:	LA-90		
Sizes:	All		
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## MATERIAL SAFETY DATA SHEET

### For Welding Consumables and Related Products

Conforms to Hazard Communication Standard 29CFR 1910.1200 Rev. October 1988

# SECTION I - IDENTIFICATION

Manufacturer/ Supplier:

The Lincoln Electric Company 22801 St. Clair Avenue Cleveland, OH 44117-1199

(216) 481-8100

Product Type: Low Alloy Electrode

AWS EA3K Classification:

ER80S-D2 ER90S-D2

### SECTION II - HAZARDOUS MATERIAL (1)

IMPORTANT!

This section covers the materials from which this product is manufactured. The fumes and gases produced during welding with the normal use of this product are covered by Section V; see it for industrial hygiene information.

CAS Number shown is representative for the ingredients listed.

(1) The term "hazardous" in "Hazardous Materials" should be interpreted as a term required and defined in the Hazards Communication Standard and does not necessarily imply the existence of any hazard. All materials are listed on the TSCA inventory.

Ingredients:	CAS No.	Wt.%	TLV mg/m <sup>3</sup>	PEL mg/m <sup>3</sup>
Low alloy steel wire		100	10*	10*
Nominal wire composition:				
Total manganese *****	7439-96-5	< 5.0	0.2	1.0(c)
Total molybdenum	7439-98-7	0.5	10	10
Total copper including plated coating *****	7440-50-8	< 0.5	0.2(a)	0.1(a)
Iron	7439-89-6	bal.	10*	10*

Supplemental Information: (\*) Not listed. Nuisance value maximum is 10 milligrams per cubic meter. PEL value for iron oxide is 10 mg/m³. TLV value for iron oxide is 5 milligrams per cubic meter.

(a) Values are for copper fume.

Subject to the reporting requirements of Sections 311, 312, and 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and of 40CFR 370 and 372.

Values are for manganese fume. STEL (Short Term Exposure Limit) is 3.0 milligrams per cubic meter. Values are those proposed by OSHA in 1989. Present PEL is 5.0 milligrams per cubic meter (ceiling value).

### SECTION III - HAZARD DATA

Non Flammable; Welding arc and sparks can ignite combustibles and flammable products. See Z49.1 referenced in Section VI. Product is inert, no special handling or spill procedures required. Not regulated by DOT.