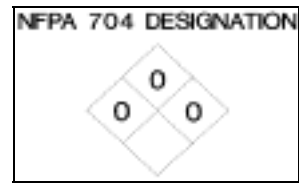


MATERIAL SAFETY DATA SHEET MSDS 9.115



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SECTION I

CHEMICAL FAMILY: Metal alloy
CHEMICAL NAME: Aluminum Bronze Alloy
TRADE NAME: ELKALOY® D

SECTION II - INGREDIENTS AND HAZARDS

INGREDIENT		CAS REGISTRY #	%	ACGIH TLV/TWA mg/m ³	OSHA PEL/TWA mg/m ³
Copper	(Cu)	7440-50-8	90	1	1
Aluminum	(Al)	7429-90-5	10	10 (dust)	10 (tot dust)

Copper is subject to the reporting requirements of Section 313 or SARA Title III.

SECTION III - PHYSICAL DATA

MELTING POINT °C: Approx. 1040
VAPOR PRESSURE AT ROOM TEMPERATURE: N/A
VAPOR DENSITY: N/A
SOLUBILITY IN WATER: Insoluble
PERCENT VOLATIVE (BY VOLUME %): N/A
SPECIFIC GRAVITY (g/cc): 7.60
APPEARANCE: Copper colored metal

SECTION IV - FIRE AND EXPLOSIVE DATA

FLASH POINT AND METHOD: N/A
AUTOIGNITION TEMPERATURE °C: N/A
FLAMMABILITY LIMITS IN AIR: UPPER: N/A LOWER: N/A
EXTINGUISHING MEDIA: Type C or type ABC extinguisher
FIRE FIGHTING PROCEDURES: Use self contained breathing apparatus with a full face piece operated in a pressure demand or positive pressure mode.
UNUSUAL FIRE AND EXPLOSION HAZARDS: If this material is reduced to powder form, caution must be used to prevent fire or explosion. To extinguish a metal powder fire use dry sand, dry graphite or other class "D" fire extinguishing powder.

References: *Threshold Limit Values and Biological Exposure Indices*, ACGIH, 1991-1992
Code of Federal Regulations - Labor #29, Rev. July 1, 1990
Pocket Guide to Chemical Hazards, NIOSH, 1990
Chemical Regulatory Cross Reference, 3rd Edition, J. J. Keller, 1990
"NFPA Hazard Rating Index Chart", Labor Safety Supply Co., 1987
Fire Protection Guide on Hazardous Materials, 9th Edition, Quincy, MA, 1986
Registry of Toxic Effects of Chemical Substances, NIOSH, 1985-1986
Occupational Health Guidelines for Chemical Hazards, NIOSH/OSHA, 1981
Dangerous Properties of Industrial Materials, 5th Edition, Van Nostrand Reinhold Co., 1979

