

Field Name on Excel File	Field Definition
SAC	Sacrifice
CuNi	Copper Nickel welding fume
ID	Identification of sample
Time	Days after exposure
Treatment	What the sample was exposed to
Body weight pre-exposure	Gram measurement of mice before exposure
Body weight SAC	Gram measurement of mice at sacrifice
Difference	Gram measurement of mice at sacrifice minus gram measurement of mice before exposure
Air	Control group only exposed to filtered air
Day	Days post exposure
Animal #	Sample number
Dose	Quantity of exposure
LDH (Units/L)	Lactate Dehydrogenase
Total Cell Count (cells/ mL)	Total number of cells counted
Lymphocyte (cells /mL)	Number of lymphocytes per milliliter
Macrophage (cells /mL)	Number of macrophages (digestive white blood cell) per milliliter
PMN (cells /mL)	Number of polymorphonuclear leukocytes (immune cell) per milliliter
Low	Low dose of CuNi welding fume, 2 hours per day
High	High dose of CuNi welding fume, 4 hours per day
Fluorescence Units	A unit of measurement used in analysis which employs fluorescence detection; measurement of the quantity or size of the level of fluorescence intensity
% Change	Percentage of change in fluorescence units when compared to control
Eotaxin	Sub family of chemokines that specifically target eosinophils
G-CSF	Granulocyte colony-stimulating factor
GM-CSF	Granulocyte macrophage colony-stimulating factor
IFN γ	Interferon gamma
IL-1 α	Interleukin one alpha; involved in pro inflammation
IL-1 β	Interleukin one beta; involved in pro inflammation

IL-2	Interleukin two
IL-3	Interleukin three
IL-4	Interleukin four
IL-5	Interleukin five
IL-6	Interleukin six
IL-7	Interleukin seven
IL-9	Interleukin nine
IL-10	Interleukin ten
IL-12p40	Interleukin twelve p40 subunit
IL-12p70	Interleukin twelve p70 subunit
IL-13	Interleukin thirteen
IL-15	Interleukin fifteen
IL-17	Interleukin seventeen
IP-10	Also known CXCL10; interferon gamma induced protein ten
KC	Also known as CXCL1; keratinocytes-derived chemokines
LIF	Leukemia inhibitory factor
LIX	Also known as CXCL5; lipopolysaccharide induced CXC chemokine
MCP-1	Monocyte chemoattractant protein one
M-CSF	Macrophage colony stimulating factor
MIG	Also known as CXCL9; monokine induce by interferon-gamma
MIP-1 β	Macrophage inflammatory protein one beta
MIP-2	Macrophage inflammatory protein two
RANTES	Regulated upon activation normal t-cell expressed and secreted
TNF α	Tumor necrosis factor alpha
VEGF	Vascular endothelial growth factor
Tissue Weight (g)	Dry weight of lung tissue in grams
Ni ($\mu\text{g}/\text{sample}$)	Nickel per microgram of sample
Ti ($\mu\text{g}/\text{sample}$)	Titanium per microgram of sample
Cu ($\mu\text{g}/\text{sample}$)	Copper per microgram of sample
Fe ($\mu\text{g}/\text{sample}$)	Iron per microgram of sample
Mn ($\mu\text{g}/\text{sample}$)	Manganese per microgram of sample
Tx	Refer to treatment
Alveolus	Air sacs at the end of bronchioles in the lungs where gas exchange occurs

Inflammation	The predominant lesion identified by histopathology
Chronic	Predominantly peribronchiolar to subpleural in distribution, ranged from mild to moderate in severity, and consisted of macrophages with fewer lymphocytes, plasma cells and neutrophils, and abundant cellular debris; it was frequently associated with alveolar basophilic foreign material similar to that observed at 1 day post-exposure
Chronic-Active	Predominantly peribronchiolar to subpleural in distribution, but sometimes involved bronchioles; it ranged from minimal to moderate in severity and consisted of viable and degenerate neutrophils, macrophages, and abundant cellular debris; this lesion was associated with alveolar basophilic globular to granular foreign material (presumptive Cu-Ni particulate matter) in all mice
Bronchial-associated lymphoid tissue	BALT; constitutive mucosal lymphoid tissue adjacent to major airways
Hyperplasia	Enlargement of tissue
Bronchiole	Smaller branch of the bronchus
Epithelium	Cell type lining the lungs
Foreign Material	Copper nickel welding fume presence in the tissue
Macrophage Aggregation	Presence of accumulations of macrophages
Present	Referring to foreign material being present in the lung tissue
Not Present	Referring to foreign material not being present in the lung tissue
Zero within data	True zero
Blank cell within data	No data obtained
<'value'	Data denoted as "<'value'" were below the limits of quantification