
V REACTIVITY DATA

Stability: Stable

Conditions to Avoid: N/A

Incompatibility: None

Polymerization: None

Hazardous Decomposition or Byproducts

Metal fumes may be produced during welding operations. Dust may be produced during cutting or grinding operations.

VI HEALTH HAZARD DATA

Routes of Entry: Steel products in the natural state do not present an inhalation, ingestion, or contact health hazard. Welding, burning, sawing, brazing, grinding, and possibly machining operations that elevate the temperature of the product to or above its melting point or generate airborne particulates may present hazards. During these operations the following exposures may exist:

Inhalation: Yes
Ingestion: Yes
Skin: No
Eyes: Yes

Health Hazards:

Acute: Excessive inhalation of all metallic fumes and dusts may result in irritation of eyes, nose, and throat. High concentrations of fumes and dusts of iron oxide, manganese, and copper may result in metal fume fever.

Chronic: Chronic or prolonged inhalation of high concentrations of fumes or dust from the following elements may lead to the noted conditions:

Iron (Iron oxide) - Pulmonary effects, siderosis.

Manganese - Bronchitis, pneumonitis.

Chromium - Inflammation/ulceration of upper respiratory tract.

Nickel - Inflammation/ulceration of upper respiratory tract.

Copper - Pulmonary effects.

Molybdenum - Pain in joints, hands and feet.

Carcinogenic: NTP: Nickel, Chromium
IARC: Nickel, Chromium

Signs and Symptoms of Exposure: Nausea, tightness of chest, fever, irritation of eyes, nose, throat and skin.

Medical Conditions Generally Aggravated by Exposure: Chronic lung disease, allergic conditions.

Emergency and First Aid Procedures:

Inhalation - Remove to fresh air, seek medical assistance.

Ingestion - If significant amounts of metal are ingested, seek medical attention.

Eye contact - Flush with water, seek medical assistance.

VII PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken In Case of Release or Spill: N/A

Waste Disposal Method: Material not known to be a RCRA hazardous waste. Follow local, state and federal requirements.

Precautions to be Taken in Handling and Storing: Use good housekeeping to minimize particle accumulation if cutting or grinding.

VIII CONTROL MEASURES

Respiratory Protection: Use NIOSH/MSHA approved dust/fume/mist respirators for welding, cutting or grinding when local ventilation proves to be inadequate. Sound hygiene practices should be followed.

Ventilation: Local ventilation is recommended when burning/welding is performed.

Eye Protection: Industrial quality safety glasses with cup sideshields should be used with appropriate welding/burning/grinding shields pursuant to ANSI Z87.1.

Skin Protection: Protect body parts from contact with sharp edges. Use appropriate hand protection when manually handling.

Other Clothing and Equipment: When burning/welding, use ANSI approved welding hood with ANSI approved filter lens or burning goggles, burning gloves, burning apron, chaps, spats and ANSI approved steel toe shoes.

IX ADDITIONAL INFORMATION

Welding/Cutting: Certain types of welding rods may contain hazardous compounds that can be released into the environment as a fume. See the MSDS for the particular welding rod to be used prior to welding.

Toxic Substances Control Act - Section 8(e): Not applicable.

CERCLA Reportable Quantity: None

SARA Title III:

Section 302 Extremely Hazardous Substances: None

Section 311/312 Hazardous Categories: None in normal state.

Section 313 Toxic Chemicals: None in normal state.

U.S. DOT: Not Regulated

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