

MATERIAL SAFETY DATA SHEET

STEEL PRODUCTS

Code No. N/A
 Original Issue Date: 1/11/02 Revised:

I. IDENTIFICATION	INFORMATION AND EMERGENCY TELEPHONE NUMBERS (708) 339-1610
PRODUCT NAME: Mechanical Product Raw – Carbon Steel Painted COMMON NAME(S): MECHANICAL	MANUFACTURER: Allied Tube & Conduit Corp. 16100 South Lathrop Avenue Harvey, IL 60426

II. INGREDIENTS AND RECOMMENDED OCCUPATIONAL EXPOSURE LIMITS

NOTE: Steel products under normal conditions do not present an inhalation, ingestion or contact health hazard (See Section VI).

BASE METAL ALLOYING ELEMENTS AND METALLIC COATINGS	% WEIGHT	EXPOSURE LIMITS	
		OSHA PEL	ACGIH TLV (1992-1993)
Base Metal: Iron	98.8	15 mg/M ³ for total particulate as iron oxide total dust 5 mg/M ³ for total particulate respirable fraction	5 mg/M ³ for iron oxide fumes
Alloying Elements: Carbon	0.25 max.	None Established	None Established
Manganese	0.95 max.	(c) 5 mg/M ³ – compounds (b) 3 mg/M ³ – fume 1 mg/M ³ - fume	5 mg/M ³ – dust & compounds 1 mg/M ³ – fume (b) 3 mg/M ³ - fume
Phosphorus	0.035 max.	None for inorganic phosphates	None for inorganic phosphates
Sulfur	0.035 max.	5 mg/M ³ as sulfur dioxide (b) 10 mg/M ³ as sulfur dioxide	5.2 mg/M ³ as sulfur dioxide (b) 13 mg/M ³ as sulfur dioxide
Polymeric O.D. Coatings	< 0.50	n/a	n/a
Polymeric I.D. coatings	0.1 max.	n/a	n/a

(b) denotes short term exposure limit (STEL).
 (c) Denotes “ceiling limit” which is not to be exceeded at any time.
 * Subject to Section EPCRA 313 reporting.

NOTE: These products contain trace quantities of various elements but not at reportable levels under the OSHA Hazard Communication Standard Limit (29 CFR 1910.1200)

III. PHYSICAL DATA

Melting Point Base Metal: @ 2750° Metallic Coating: N/A	Appearance: Black Odor: No Odor
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IV. FIRE AND EXPLOSION HAZARD DATA

Steel products sold in the solid state present no fire or explosion hazard.

V. REACTIVITY DATA

Stable under normal conditions of use, storage and transport. Will react with strong acid to liberate hydrogen.

VI. HEALTH HAZARD DATA

NOTE: Steel products under normal conditions do not present an inhalation, ingestion, or contact health hazard. However, operations such as burning, welding, sawing, brazing, grinding, and possibly machining, etc. which may result in elevating the temperatures of the product to or above its melting point or result in the generation of airborne particulates, may present health hazards.

EFFECTS OF OVEREXPOSURE

Major Exposure Hazard			
INHALATION	SKIN CONTACT	EYE CONTACT	INGESTION
X			

Chronic inhalation of high concentrations of iron oxide fumes or dusts may lead to a benign pneumoconiosis (siderosis). Inhalation of high concentrations of ferric oxide may possibly enhance the risk of lung cancer development in workers exposed to pulmonary carcinogens.

The inhalation of high concentrations of freshly formed oxide fumes and dusts of Manganese, Copper, Lead and/or Zinc in the respirable particle size range can cause an influenza-like illness termed metal fume fever. Typical symptoms last 12 to 48 hours and are characterized by metallic taste in the mouth, dryness and irritation of the throat, followed by weakness, muscle pain, and chills. No long term effects of metal fume fever have been noticed.

EMERGENCY AND FIRST AID PROCEDURES

For exposure to airborne fumes and particulates, remove exposed person to fresh air. If breathing is difficult or has stopped, administer artificial respiration or oxygen as indicated. Seek medical attention promptly.

Treat metal fume fever by bed rest, and administer a pain and fever reducing medication.

VII. SPILL OR LEAK PROCEDURES

NOT APPLICABLE TO STEEL IN THE SOLID STATE

VIII. SPECIAL PROTECTION INFORMATION

RESPIRATORY: For welding or burning – NIOSH/MSHA – approved dust and fume respirators should be used to avoid excessive inhalation of particulates. Appropriate respirator selection depends on the magnitude of the exposure.

SKIN: Protective gloves should be worn as required for welding, burning or handling operations.

EYE: Use safety glasses or goggles as required for welding, burning or handling operations.

VENTILATION: Local exhaust ventilation should be provided when sawing, grinding or machining to prevent excessive dust or fume exposure. During welding, burning or brazing please follow the ANSI Standard Z49.1 "Safety in Welding and Cutting".

OTHER PROTECTIVE EQUIPMENT: Depending upon the conditions of use and specific work situations, additional protective equipment and/or clothing may be required to control exposures.

IX. SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Operations with the potential for generating high concentrations of airborne particulates should be evaluated and controlled as necessary. Avoid breathing metal fumes and/or dusts.

OTHER COMMENTS:

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Individuals with chronic respiratory disorders (i.e., asthma, chronic bronchitis, emphysema, etc.) may be adversely affected by any fume or airborne particulate matter exposure.

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