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MATERIAL SAFETY DATA SHEE^N. 947 STEEL PRODUCTS

Galvanized Carbon Steel Pipe Tube

CODE NO. NA

ORIGINAL ISSUE DATE: 1/11/02 REVISED: I. IDENTIFICATION INFORMATION & EMERGENCY TELEPHONE NUMBERS PRODUCT NAME: GALVANIZED CARBON STEEL PIPE & TUBE (708) 339-1610 MANUFACTURER: Allied Tube & Conduit Corp. COMMON NAME (S): EMT. IMC. RIGID. FENCE. MECHANICAL 16100 South Lathrop Avenue Marvey, IL 60426 II. INGREDIENTS AND RECOMMENDED OCCUPATIONAL EXPOSURE LIMITS maj consisions de hel prevent en inhelation, ingestion of comfact health hexard (See Seebop V)). BASE METAL ALLOYING % WEIGHT ELEMENTS AND During operations (such as welding, burning or cutting) where dust or fumes are generated METALLIC COATINGS OSHA PEL ACGIM TLY (1902-1993) 15 mg/M3 for total particulate 5 mo/M2 for iron oxide fumes Base Metal: Iron 95.7 • 98.9 as iron exida-total dust 5 mg/M3 for total particulaterespirable fraction Alloying Elements: Carbon 0.25 max. None established None established (c) 5 mg/M³ - compounds 0.95 max. 5 mg/M3 - dust & compounds Manganese (b) 3 mg/M3 - fume 1 mg/M³ - lume t mg/M³ - fume (b) 3 mg/M3 - lums None for inorganic phosphates Phosphorus 0.035 max. None for inorganic phosphates 5.2 mg/M3 as sulfur dioxide Sulfur 0.035 max. 5 mg/M³ as sulfur dioxide (b) 13 mg/M3 as sulfur dioxide (b) 10 mg/M³ as sulfur dioxide Metallic Coating 5 mg/M³ 2inc oxide fume 10 mg/M3 - zinc oxide total dust "Zinc 0.5 - 3.00 CAS NO. 7440-66-6 (b) 10 mg/M³ - zinc oxide lume 5 mg/M3 · zinc oxide fume Zinc Dust Or Fume 10 mg/M³ - zinc oxide dust (b) 10 mg/M3 zinc oxide fume 5 mg/M3 · zmc oxide respirable fraction 15 mg/M3 - metal dust 10 ma/M³ - dust *Aluminum < 0.1 CAS NO. 7429-90-5 5 mg/M3 - respirable fraction 5 mg/M³ - welding lumes Aluminum Dust Or Fume 1 mg/M3 as metal 0.5 mg/M3 as melal Chromium < 0.0005 Polymeric O.D. Coatings < 0.50 r/a Polymene I.D. Coatings 0.1 max. n/a (h) Denotes sport term especiate jumi (STEL). (c) Depotes "calling limit" which is not to be as Subject to Serven EPCRA 3 (3 reporting. NOTE: These products conglis brace quantity of various economic out not of reportable levels under the OSHA regard Communication Standard Limit (29 CFR 1814.1200) III. PHYSICAL DATA MELTING POINT Bright Metallic APPEARANCE METALLIC COATING: 9 800-900" **9** 2750° BASE METAL: AND ODOR: No Odor IV. FIRE AND EXPLOSION HAZARD DATA STEEL PRODUCTS IN THE SOLID STATE PRESENT NO FIRE OR EXPLOSION MAZARO. V. REACTIVITY DATA Stable under normal conditions of use, storage and transport. Will read with strong acid to liberate hydrogen. At temperatures above the making point of the coating, galvanized pipe may liberate zinc furnes, carbon monoxide and pixides of nitrogen.

MSOS-GALVANIZED CARBON STEEL PIPE & TUBE Page I

OCT.11.2006 1:31PM

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NO.947 P.3

VI. HEALTH HAZARD DATA	
VI. HEALTH HACKID DATA	
NOTE: Steel products under normal conditions do not present an inhalation, ingestion, or contact health hazard. However, operations such as burning, welding, sawing, practing, and possibly machining, etc., which result in elevating the temperature of the product to or above its melting point or result in the generation of alroome particulates, may present health hazards.	
EFFECTS OF OVEREXPOSURE:	
l N	AJOR EXPOSURE HAZARD
	INHALA- TION SKIN EYE CONTACT INGESTIO
Chronic inhalation of high concentrations of Iron oxide tumes or dusts may lead to a benigh pheumoconiosis (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 furnes and dusts of Manganese. Copper, Lead and/or Zinc in the respirable particle size range can cause an influenza-like illness termed metal furne 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 furne fever have been noted.	
EMERGENCY AND FIRST AID PROCEDURES	
For overexposure to airbome (umes and particulates, remove exposed person to tresh air. If breathing is difficult or has stopped, administer antificial respiration or oxygen as indicated. Seek medical attention promptly. Treat metal tume 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 exposure.	
SKIN:	
Protective gloves should be worn as required for welding, burning or h EYE:	andling operations.
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 tume exposure. During welding, burning or brazing please follow the ANSI Standard Z49.1 "Safety in Welding and Culting"	
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 ganerating high concentrations of airborne particulates should be evaluated and controlled as necessary. Avoid breathing metal tumes and/or dusts.	
OTHER COMMENTS:	
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Individual chronic branchilis, emphyseme, etc.) may be adversely affected by any	

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