

MATERIAL SAFETY DATA SHEET

STEEL PRODUCTS

CODE NO.: na	
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I. IDENTIFICATION		INFORMATION AND EMERGENCY TELEPHONE NUMBERS (708) 339-1610	
PRODUCT NAME: Carbon Steel; Pipe, Tube & Open profile shapes.		MANUFACTURER: Allied Tube & Conduit Corp 16100 South Lathrop Avenue Harvey, IL 60426	
COMMON NAME (S): SPRINKLER, SCH 40, SCH 10, DYNAFLO, DYNATHREAD, STRUT, MECHANICAL, ANGLE, CHANNEL			
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 CAS 7439-89-6	95.7 – 98.3	10 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 CAS 7440-44-0	0.25 max	10 mg/M ³ for total dust (pnor) ^d 5mg/M ³ for respirable fraction (pnor) ^d	10 mg/M ³ for total dust (pnos) ^e 3 mg/M ³ for respirable fraction (pnos) ^e
*Manganese CAS 7439-96-5	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 CAS 8049-19-2	0.035 max	10 mg/M ³ for total dust (pnor) ^d 5mg/M ³ for respirable fraction (pnor) ^d	10 mg/M ³ for total dust (pnos) ^e 3 mg/M ³ for respirable fraction (pnos) ^e
Sulfur CAS 7704-21-3	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
I.D. Antibacterial formula coating (where applied)	<0.50	n/a	n/a
*Chromium CAS 7440-47-3	<0.0005	1 mg/M ³ as metal	0.5 mg/M ³ as metal or Cr III compounds
Polymeric OD Coatings	<0.50	n/a	n/a
Polymeric ID Coatings	0.10 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. (d) Particulates not otherwise regulated- nuisance or inert dusts not listed as a specific name			

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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 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 (ie asthma, chronic bronchitis, emphysema, etc) may be adversely affected by any fume or airborne particulate matter exposure.

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