MATERIAL SAFETY DATA SHEET STEEL PRODUCTS

	CODE NO.:	na
ORIGINAL ISSUE DATE:	11/18/08	REVISED:

I. IDENTIFICA	ATION	INFORMATION AND EMERGENCY TELEPHONE								
PRODUCT NAMI	E: Carbon S	NUMBERS (708) 339-1610								
shapes.		MANUFACTURER:								
COMMON NAME (S))· SPRINKI FR	Allied Tube & Conduit Corp								
DYNATHREAD, STR		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).										
	der normal condi	EXPOSURE LIMITS*								
BASE METAL, ALLOYING ELEMENTS AND METALLIC	% WEIGHT	During operations (such as welding, burning, or cutting) where dust or fumes are generated.								
COATINGS		OSHA PEL	ACGIH TLV (1992-1993)							
Base Metal: Iron	95.7 – 98.3	10 mg/M ³ for total particulate as iron	5 mg/M ³ for iron oxide fumes							
CAS 7439-89-6		oxide – total dust								
		5 mg/M ³ for total particulate-respirable								
		fraction								
Alloying Elements:		10 mg/M³ for total dust (pnor) d	10 mg/M³ for total dust (pnos) e							
Carbon	0.25 max	5mg/M ³ for respirable fraction (pnor) ^d	3 mg/M ³ for respirable fraction (pnos) ^e							
CAS 7440-44-0	0.95 max	(c) 5 mg/M ³ – compounds	5 mg/M ³ – dust & compounds							
*Manganese CAS 7439-96-5	0.95 max	(b) 3 mg/M ³ fumo	1 mg/M ³ fumo							
CAS 7439-90-3		(b) 3 mg/M ³ – fume 1 mg/M ³ - fume	1 mg/M ³ – fume (b) 3 mg/M ³ - fume							
*Dh.o.o.n.h.o.w.i.o	0.035 max	10 mg/M ³ for total dust (pnor) ^d	10 mg/M³ for total dust (pnos) ^e							
*Phosphorus CAS 8049-19-2	0.035 max	5mg/M ³ for respirable fraction (pnor) d	3 mg/M ³ for respirable fraction (pnos) ^e							
Sulfur	0.035 max	5 mg/M ³ as sulfur dioxide	5.2 mg/M ³ as sulfur dioxide							
CAS 7704-21-3	0.000 IIIax	(b) 10 mg/M ³ – as sulfur dioxide	(b) 13 mg/M ³ – as sulfur dioxide							
I.D. Antibacterial	<0.50	n/a	n/a							
formula coating										
(where applied)										
*Chromium	<0.0005	1 mg/M ³ as metal	0.5 mg/M ³ as metal or Cr III							
CAS 7440-47-3		,	compounds							
Polymeric OD	<0.50	n/a	n/a							
Coatings Polymeric ID	0.10 max	n/a	n/a							
Coatings	0.10 IIIax	11/4	11/4							
(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	Ì									

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a specific name				
(e) Particulates not				
otherwise				
specified- nuisance				
or inert dusts not				
containing silica or				
asbestos				
III. PHYSICAL DATA				
Melting Point				
Base Material: 2750° F Polymer Coating: decompose	450°-500° F			
Appearance Gray Metallic, Black, Green or selected color Odor: none				
IV. FIRE AND EXPLOSION DATA				
Steel Products 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 lib	perate hydrogen	At temperature	es above the
melting point of the coating, galvanized pipe may liberate zinc fumes, carbon m				
VI. HEALTH HAZARD DATA				
Note: Steel products under normal conditions do not present an inhalation, ing				
burning, welding, sawing, brazing, grinding, and possibly machining, etc, which its melting point or result in the generation of airborne particulates, may present			ture of the produ	uct to or above
EFFECTS OF OVEREXPOSURE:	t Health Hazarus).		
ELLEGIO OL OVEREXI GOGICE.	Ma	ajor Expos	ure Hazar	d
	IVIC	JOI EXPOS		<u>ц</u>
	INHALATION	SKIN	EYE	INGESTION
		CONTACT	CONTACT	
	X			
	^			
•				
Chronic inhalation of high concentrations of iron oxide fumes or du				
(siderosis). Inhalation of high concentrations of ferric oxide may p	ossibly enha	nce the risk of	f lung cancer	development
in workers exposed to pulmonary carcinogens.				
The inhelation of high concentrations of freehly formed evide fume	o and duate	of Manganasa	Copper Lee	nd and/or
The inhalation of high concentrations of freshly formed oxide fume Zinc in the respirable particle size range can cause an influenza-lik				
symptoms last 12 to 48 hours and are characterized by metallic ta				
followed by weakness, muscle pain, and chills. No long term effect				
Tononou 2) noammoo, masso pami, and onmo				
EMERGENCY AND FIRST AID PROCEDURES				
For overexposure to airborne fumes and particulates, remove exposed person	to fresh air. If b	reathing is diffic	ult or has stopp	ed, 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 m	edication.			

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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 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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