

PRIMESOURCE®

BUILDING PRODUCTS, INC.

To:

Attn:

From: Michael Hudson

Date: August 11, 2004

Subject: MSDS for Nails

Thank you for your request for Material Safety Data Sheets on nails distributed by PrimeSource Building Products.

Many products do not require MSDS sheets - if they fall under the category of "articles" as defined by OSHA. Section 1910.1200 (amended), Title 29 of the Code of Federal Regulations states that its Hazard Communication section does not apply to "articles" in paragraph (a) (iv). An "article" is defined in paragraph © as follows:

"Article" means a manufactured item: (i) which is formed to a specific shape or design during manufacture; (ii) which has end use function(s) dependent in whole or in part upon its shape or design during end use; and (iii) which does not release or otherwise result in exposure to a hazardous chemical under normal conditions of use."

It is our feeling that nails fall squarely into this category of an "article". Although nails do not require a MSDS, for informational purpose only we have obtained similar information from both an import and domestic supplier. I have included these two forms. These forms are being provided solely as general information and should not be construed as a determination that the products are hazardous chemicals.

I hope that you will find the enclosed material informative.

Sincerely,

Michael Hudson
Product Manager, Fastners

MATERIAL SAFETY DATA SHEET

STEEL PRODUCTS

ORIGINAL ISSUE DATE: Jan. 3, 2003

REVISED: 2/1/03

I. IDENTIFICATION	WIRE PRODUCTS
PRODUCT NAME: STEEL PRODUCTS: WIRE & WIRE PRODUCTS COMMON NAME(S): SAME	STEEL NAILS & PLASTIC CAP NAILS

II. INGREDIENTS AND RECOMMENDED OCCUPATIONAL EXPOSURE LIMITS

Note: steel products under normal conditions do not present an inhalation

BASEMETAL & METALLIC COATINGS		% WT.	EXPOSURE LIMITS	
CHEMICAL	SYMBOL		OSHA PEL	ACGIH TLV
All Products:				
Iron	Fe			
Galvanized Products:		95.0	10.0 mg/M ³ fume	5.0 mg/M ³ fume
Zinc	Zn	3.0	5.0 mg/M ³	5.0 mg/M ³

SEE ANNEX 1 FOR BALANCE OF INGREDIENTS. SEE ANNEX 3 FOR ANIL COATINGS.

SECTION 313 – SUPPLIER NOTIFICATION

This product contains threshold concentrations of the following toxic chemicals subjects to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to Know Act of 1986(40CFR372):
Chromium, Manganese, Nickel and Zinc(Galvanized Coating Only) in the amounts noted above and on ANNEX 1.
This information should be included in all MSDS's that are copied and distributed for this material.

III. PHYSICAL DATA

SPECIFIC GRAVITY(H=0>1):	7.85	SOLUBILITY IN WATER:	NONE
BOILING POINT(Iron):	4950°F	EVAPORATION RATE (Butyl Acetate=1):	N/A
MELTING POINT(Base Metal):	2400°F	VOPOR PRESSURE(mm Hg):	N/A
MELTING POINT(Metallic Coating):	800°F	VOPOR DENSITY(Air 1):	N/A
APPEARANCE:	Metallic Grey	ODOR:	NONE

VI. FIRE AND EXPLOSION HAZARD 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 liberate hydrogen. At temperatures above the melting point, may liberate fumes containing oxides of iron & alloying elements.

MATERIAL SAFETY DATA SHEET

STEEL PRODUCTS

STEEL PRODUCTS-

ORIGINAL ISSUE DATE: 5/8/03

REVISED: _____

TYPICAL LEVELS OF TRACE OR RESIDUAL ELEMENTS IN STEELS

All steel products are alloys which consist primarily of iron(generally 95 %). However, other elements which are either added intentionally or present as contaminants or residuals may also occur in these products at trace or low level concentration(generally <1.0%). These elements may include the following:

ALLOYING & RESIDUAL ELEMENTS		% WT.	EXPOSURE		LIMITS	
			OSHA PEL	ACGIH TLV		
Aluminum	Al	0.01-0.06	total respirable	15.0 mg/M ³ 5.0 mg/M ³	fume	0.05mg/M ³
Antimony	Sb	<0.005		0.5 mg/M ³		0.5 mg/M ³
(1) Arsenic	As	0.002-0.009		0.01 mg/M ³		0.2 mg/M ³
Boron	B	0.0002-0.004	total respirable	10.0 mg/M ³ 5.0 mg/M ³		10.0 mg/M ³ 2.0 mg/M ³
Calcium	Ca	0.0001-0.002		5.0 mg/M ³		
Carbon	C	0.05-0.84	NONE		NONE	
(1) Chromium	Cr	0.01-0.10		1.0 mg/M ³		0.5 mg/M ³
Cobalt	Co	<0.011		0.05 mg/M ³		0.05mg/M ³
Copper	Cu	<0.25	fume	0.1 mg/M ³	fume	0.2mg/M ³
Lead	Pb	<0.002		0.05 mg/M ³		0.15mg/M ³
Manganese	Mn	0.4-1.2	fume	1.0 mg/M ³	fume	1.0mg/M ³
Molybdenum	Mo	0.01-0.06	total respirable	10.0 mg/M ³ 5.0 mg/M ³		10.0mg/M ³
(1) Nickel	Ni	0.01-0.10		1.0 mg/M ³		1.0mg/M ³
Phosphorous	P	<0.04		0.1 mg/M ³		0.1mg/M ³
Silicon	Si	<0.30	total respirable	10.0 mg/M ³ 5.0 mg/M ³		10.0mg/M ³
Sulfur	S	<0.05	SO ₂	5.0 mg/M ³	SO ₂	5.0mg/M ³
Tin	Sn	<0.03		2.0 mg/M ³		2.0mg/M ³
Titanium	Ti	0.02-0.04	total respirable	10.0 mg/M ³ 5.0 mg/M ³		10.0 mg/M ³
Vanadium	V	0.001-0.03	fume	0.05 mg/M ³	fume	0.05 mg/M ³

(1) Recognized to have human carcinogenic or co-carcinogenic potential; included on IARC & NTP listings.