

# MATERIAL SAFETY DATA SHEET

## STEEL PRODUCTS

ORIGINAL ISSUE DATE: January 1992      REVISED: \_\_\_\_\_

### I. IDENTIFICATION

INFORMATION & EMERGENCY TELEPHONE NUMBERS (604) 524-3744  
(08:00 - 17:00, Monday - Friday)  
(604) 524-3745 (Off Hours & Emergencies)

PRODUCT NAME:  
STEEL PRODUCTS:  
WIRE & WIRE PRODUCTS  
COMMON NAME(S): SAME

TREE ISLAND INDUSTRIES LTD.  
P.O. BOX 50  
NEW WESTMINSTER, B.C. V3L 4Y1  
(604) 524-3744

### 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).

BASEMETAL & METALLIC COATINGS				EXPOSURE LIMITS	
CHEMICAL	SYMBOL	C.A.S. NO.	% WT.	OSHA PEL	ACGIH TLV
All Products: Iron	Fe	7439-89-6	95.0	10.0 mg/M <sup>3</sup>	5.0 mg/M <sup>3</sup>
Galvanized Products: Zinc	Zn	7440-66-6	3.0	fume 5.0 mg/M <sup>3</sup>	fume 5.0 mg/M <sup>3</sup>

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

NOTE: All commercial metals contain small amounts of various elements in addition to those specified. These small quantities, frequently referred to as "trace" or "residual" elements generally originate in the raw materials used. Typical levels of commonly involved trace or residual elements that may be encountered in steel products are provided in Annex 1, so that their potential hazards may be considered.

### SECTION 313 - SUPPLIER NOTIFICATION

This product contains threshold concentrations of the following toxic chemicals subject 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 <sub>2</sub> O=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	VAPOR PRESSURE (mm Hg):	N/A
MELTING POINT (Metallic Coating)	800°F	VAPOR DENSITY (Air=1):	N/A
APPEARANCE:	Metallic Grey	ODOR:	NONE

### IV. 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.



U. S. STEEL GROUP  
P. O. Box 206  
Pittsburgh, PA 15230-0206

June, 1997

Enclosed is a package of revised Material Safety Data Sheets including the specific MSDS for the U. S. Steel product that you purchased. It is the continuing policy of U. S. Steel to provide to our customers health, safety and environmental protection information that is appropriate for handling and using our products.

These Material Safety Data Sheets contain information that is valuable to your employee health and safety program and may be required to be in your possession by the Federal OSHA Hazard Communication Standard or other right-to-know legislation. It is important that your facility hazard communication coordinator, industrial hygiene, or safety personnel receive this information so that it can be communicated to those employees having contact with these products.

Revised Material Safety Data Sheets are promptly forwarded to you when significant changes of the information contained therein necessitate publication of an updated copy.

This package contains an index listing our products. The Material Safety Data Sheet for the specific product that you purchased can be located by referencing the USS code number and the product category shown in this index. The products in this index are categorized as carbon steel, alloy steel or high strength low alloy steel.

Annex I of this package lists the typical levels of trace or residual elements that may be contained in steel products. These elements are listed to provide as much information as is reasonably possible regarding the composition of our steel products, and are in addition to the materials listed on the individual MSDS.

Annex II lists the most commonly used rust preventative or protective coatings that are applied to products requiring such treatment, if a coating is not specified by you. This annex lists the steel-producing facility, the products to which the coatings are applied and the manufacturer's or supplier's identification and address. This information is provided to enable you to obtain a Material Safety Data Sheet directly from the manufacturer or supplier for the rust preventative or coating that is applied to the product that you purchase. Material Safety Data Sheets for specified coatings should also be requested from the manufacturer or supplier of the coating. This procedure makes it possible for the manufacturers or suppliers to send copies of the latest revision of their Material Safety Data Sheets directly to you as a user of their products.

Annex III lists rust preventative or protective coatings which, in addition to the products already covered in Annex II, may be applied by outside processors under contract to U. S. Steel.

Also contained in the package are labels that can be reproduced or the information contained thereon extracted for label-producing purposes. The information contained on the labels varies according to the composition of the steel product and the varying degrees of hazards associated with the alloys.

The OSHA Hazard Communication Standard and most other right-to-know legislation consider ingredients of steel as hazardous substances. Consequently, the appropriate MSDS and warning label should be forwarded to other employers so the information contained therein can be communicated to their employees working with these materials.

Hazard Communication Programs are of the uppermost importance to U. S. Steel. We believe this information will be very beneficial to your Hazard Communication Program and we welcome any inquiries regarding any additional information that you may require.

A handwritten signature in cursive script that reads "J. F. Quealy".

J. F. Quealy  
Manager—Industrial Hygiene



### MSDS INDEX FOR STEEL PRODUCTS

PRODUCT CATEGORY	USS Code Number		
	CARBON	ALLOY	HIGH STRENGTH LOW ALLOY
Ingots, Blooms, Slabs	1C001	1A001	1H001
Plate	1C004	1A004	1H004
Black Plate	2C008		
Tin Plate and Tin Coated Sheet - Electrolytic	2C009		
Tin Free Steel	2C010		
Hot or Cold Rolled Sheet/Strip and Hot Rolled Skelp	3C011	3A011	3H011
Galvanized Sheet - Hot Dipped	3C012		3H012
Galvanized Sheet - Electrolytic	3C013		
Terne Sheet	3C014		
Ni-Terne Sheet	3C015		
GALVALUME <sup>®</sup> Sheet	3C016		3H016
Electrical Sheet	3C017	3A017	
Standard Pipe	4C018		
Oil Country Goods	4C019	4A019	4H019
Line Pipe and Couplings	4C020		4H020

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Original Issue Date: 4/1/86  
Revision Date: 10/89, 1/91, 12/96

**ANNEX I**  
**TYPICAL LEVELS OF TRACE OR RESIDUAL ELEMENTS IN STEELS**

<b>ELEMENT</b>			<b>% WEIGHT</b>
Aluminum	Al	( 7429 - 90 - 5 )	0.002 - 0.1
Arsenic	As	( 7440 - 38 - 2 )	0.005 - 0.008
Boron	B	( 7440 - 42 - 8 )	0.0002 - 0.0004
Cadmium	Cd	( 7440 - 43 - 9 )	<.001
Calcium	Ca	( 7440 - 70 - 2 )	0.0002
Chromium	Cr	( 7440 - 47 - 3 )	0.02 - 0.08
Cobalt	Co	( 7440 - 48 - 4 )	<0.005 - 0.009
Copper	Cu	( 7440 - 50 - 8 )	0.009 - 0.18
Lead	Pb	( 7440 - 92 - 1 )	<0.001
Molybdenum	Mo	( 7440 - 98 - 7 )	<0.004 - 0.04
Nickel	Ni	( 7440 - 02 - 0 )	0.011 - 0.04
Niobium	Nb	( 7440 - 03 - 1 )	0.002 - 0.005
Silicon	Si	( 7440 - 21 - 3 )	<0.004 - 0.02
Tin	Sn	( 7440 - 31 - 5 )	<0.004 - 0.02
Titanium	Ti	( 7440 - 32 - 6 )	0.001 - 0.004
Vanadium	V	( 7440 - 62 - 3 )	0.001 - 0.003
Zirconium	Zr	( 7440 - 67 - 7 )	0.002



## INDEX FOR ANNEX II SUPPLIERS OF PROTECTIVE COATINGS

**Atochem North America, Inc.**  
Chemicals Specialties Division  
2375 State Street  
Cornwells Heights, PA 19020  
215-245-3164

**Bestolife Corporation**  
2777 Stemmons Freeway  
Suite 1800  
Dallas, TX 75207  
214-631-6070

**Castrol Industrial Inc.**  
1001 West 31st Street  
Downers Grove, IL 60515-1280  
708-241-4000

**Chem and Lube**  
1901 South 12th Street  
Allentown, PA 18103-4777  
215-295-5222

**D. A. Stuart Company**  
7575 Plaza Court  
Willowbrook, IL 60521  
708-655-4595

**Dacar Chemical Company**  
1007 McCartney Street  
Pittsburgh, PA 15220  
412-921-3620

**Daubert Chemical Company**  
4700 S. Central Avenue  
Chicago, IL 60638  
708-496-7350

**Harry Miller Corporation**  
4th & Bristol Streets  
Philadelphia, PA 19140  
215-324-4000

**Houghton International Inc.**  
Madison & Van Buren Avenues  
P.O. Box 930  
Valley Forge, PA 19482-0930  
610-666-4105

**Kendall/Amalie Division  
Witco Chemical Corp.**  
77 North Kendall Avenue  
Bradford, PA 16701  
814-368-6111

**Metal Lubricants Co.**  
17050 Lothrop Avenue  
Harvey, IL 60426  
708-733-8900

**Mill Chemicals & Lubricants Inc.**  
2470 Windy Hill Road  
Suite 248  
Marietta, GA 30067  
404-952-7639

**Moreflex, Inc.**  
2110 Highpoint Road  
Greensboro, NC 27403  
910-292-1781

**Nalco Chemical Company**  
One Nalco Center  
Naperville, IL 60563-1198  
630-305-1000

**Oakite Products Inc.**  
50 Valley Road  
Berkeley Heights, NJ 07922  
908-464-6900

**PPG Chemfil**  
1330 Piedmont  
Troy, MI 48083  
810-689-0720

**Prochemco, Inc.**  
Ripley & Schneider Streets  
Lake Station, IN 46405  
219-962-8554

**Quaker Chemical Corporation**  
Elm Street  
Conshohocken, PA 19428-0809  
610-832-4000

**Ranbar Technology, Inc.**  
1114 William Flinn Highway  
Glenshaw, PA 15116  
412-486-1111

**Research Metal Fluids**  
Division of Research Solvents  
and Chemicals, Inc.  
133 Bain Drive  
LaVergne, TN 37086  
615-793-6737

**T.G. Chemicals**  
2515 Elkridge Drive  
Wexford, PA 15090  
412-231-2099

**Texaco Lubricants Company**  
P.O. Box 4427  
Houston, TX 77210-4427  
914-831-3400

**Titan Coatings, Inc.**  
2025 Exchange Place  
Bessemer, AL 35023  
205-426-8149

**Vulcan Oil & Chemical Products**  
5353 Spring Grove Avenue  
Cincinnati, OH 45217  
513-242-2672



## ANNEX II — RUST PREVENTATIVES AND PROTECTIVE COATINGS

### FAIRFIELD WORKS

#### Sheet Products

Nalco 6292BD Rust Preventative	Nalco Chemical Company
Nalco 6292 Rust Preventative	Nalco Chemical Company
Nalco 6925 Temper Mill Coolant	Nalco Chemical Company
Ferrocote 61A-US	Quaker Chemical Corporation
Gen05 Meropa Oils	Texaco Lubricants Company
Stripclean 37XL	Atochem North America, Inc.
KS 6-900	Atochem North America, Inc.
SF 4000	Atochem North America, Inc.

#### Pickle Line

RPO 50 SI Pickle Oil	Mill Chemicals & Lubricants
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#### Galvanized Products

Oakite Okemcoat F1	Oakite Products, Inc.
02601 Meropa 100 (Gen05 Meropa Oils)	Texaco Lubricants Company
Pennsteel 100	Atochem North America, Inc.
Oakite Gardobond VP 4918	Oakite Products, Inc.

#### Pipe Products

Kendex OCTG Orange Corrosion Inhibitor	Kendall/Amaile Division
Rust Veto 4225	Witco Chemical Corp.
Rust Veto 76-T	Houghton International, Inc.
API Modified Thread Compound	Houghton International, Inc.
Bestolife 2000	Bestolife Corporation
Bestolife 2000 Arctic Grade	Bestolife Corporation
Resco Alpha Grind RD	Research Metal Fluids - Research Solvents & Chemicals
G-4823 S/A Pipe Coatings	Ranbar Technology, Inc.
G-4815-P1 Ultraviolet Cured Clear Coating	Ranbar Technology, Inc.
HAP Free Clear Pipe Coating	Titan Coatings, Inc.

### FAIRLESS WORKS

#### Black Plate, Cold and Hot Rolled Products

K-14FN	D. A. Stuart Company
KS 6-200A	Atochem North America, Inc.

#### Double Cold Reduction

Prolube MR 500EP Rolling Oil	Prochemco, Inc.
Temper Shield 33	D. A. Stuart Company

#### Electrolytic Tin Products

Citroflex A-4	Moreflex, Inc.
Sodium Dichromate, Dihydrate	T. G. Chemicals

#### Galvanized Products

Draw Clean V	Oakite Products, Inc.
Ferrocote 61-MAL-HCL-1	Quaker Chemical Corporation
Ferrocote 61A-US	Quaker Chemical Corporation

#### Tin Free Steel Products

B-55 K Lubricant	Prochemco, Inc.
Citroflex A-4	Moreflex, Inc.

#### #1 Recoiler

DOS-CS	Chem and Lube
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### GARY WORKS

#### Hot Rolling Division — Hot Roll Finishing

Ferrocote 61A-US	Quaker Chemical Corporation
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#### Sheet Products Division — East Galvanize

Ferrocote 61A-US (Strip Oil)	Quaker Chemical Corporation
Ferrocote 61-MAL-HCL (Pre Lube)	Quaker Chemical Corporation
Chem Treat CT-4	Dacar Chemical Company

#### Sheet Products Division — 2-Stand Temper Mill

Ferrocote 61-MAL-HCL-1	Quaker Chemical Corporation
Ferrocote 61A-US	Quaker Chemical Corporation
Nalco 6292	Nalco Chemical Company
Nalco 6295	Nalco Chemical Company

#### Sheet Products Division — Electro-Galvanize Line

Ferrocote 61A-US	Quaker Chemical Corporation
Ferrocote EGL-1-ST	Quaker Chemical Corporation
Ferrocote EGL-1	Quaker Chemical Corporation
Ferrocote 61-MAL-HCL-1	Quaker Chemical Corporation
015D-P3 Coating Oil	Vulcan Oil & Chemical Products

#### Sheet Division — North Sheet Mill

Ferrocote 61A-US	Quaker Chemical Corporation
Daubert Nox Rust X-111	Daubert Chemical Co.
ESTL-634	Vulcan Oil & Chemical Products
ESTL-636	Vulcan Oil & Chemical Products

#### Sheet Division — Continuous Pickle

Steel Shield PL-910 S	D. A. Stuart Company
CRPS-90 GW Pickle Oil	Vulcan Oil & Chemical Products
Steel Shield PL-955 GW	D. A. Stuart Company
Ferrocote 61A-US	Quaker Chemical Corporation
Ferrocote 61-MAL-HCL-1	Quaker Chemical Corporation
Chemseal 20	PPG Chemfil
Tru-Zite #2-107F	PPG Chemfil
Rinse Conditioner	PPG Chemfil
Chem Treat CT-4	Dacar Chemical Company

#### Tin Products — Electrolytic Tin Products

Proclean-LG-1	Prochemco, Inc.
B-55K	Prochemco, Inc.
Prolube 500 EP	Prochemco, Inc.
Progrind 357 Coolant & RP	Prochemco, Inc.
Hydrashield 51	D. A. Stuart Company

#### Tin Products — Tin Finishing

Proclean LG-1	Prochemco, Inc.
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## ANNEX II MON VALLEY WORKS

### Hot Rolled Products — Pickle Line

KS 5-910 (Summer Grade)	Atochem North America, Inc.
KS 5-915 (Winter Grade)	Atochem North America, Inc.
Ferrocote 61 MAL HCL 1	Quaker Chemical Corporation

### Cold Rolled Products — Cold Reduction Mill

KS 6-100	Atochem North America, Inc.
Stripclean 41XL-A	Atochem North America, Inc.

### Cold Rolled Products — Temper Mill

Qwerl 599 USX	Quaker Chemical Corporation
Ferrocote 61 A-US	Quaker Chemical Corporation
Steelgard 2005	Harry Miller Corporation
6292 Rust Preventative	Nalco Chemical Company
Metalub PL-7105A	Metal Lubricants Co.

### Terne Products

Ferrocote 61 A-US	Quaker Chemical Corporation
Chem Treat CT-9	Dacar Chemical Company

### Galvanized Products

Chem Treat CT-4	Dacar Chemical Company
Ferrocote 61A-US	Quaker Chemical Corporation

### Galvalume Products

Rustilo DW 924 HF	Castrol Industrial Inc.
Oakite Okemcoat F1	Oakite Products, Inc.
Oakite Gardobond VP 4918	Oakite Products, Inc.



**ANNEX III  
RUST PREVENTATIVES AND PROTECTIVE COATINGS  
OUTSIDE PROCESSING CONTRACTORS  
(These are in addition to Annex II)**

**Paint Systems**

<b>Product</b>	<b>Manufacturer</b>	<b>Product</b>	<b>Manufacturer</b>
Ceram-a-sil Si-Polyester	<b>AKZO-NOBEL Coatings</b> 313 Windsor P.O. Box 147 Columbus, OH 43211	Ultralure Waterbase	<b>Lilly Industrial Coatings</b> (continued)
Ceram-a-Star 900 Si-Polyester		Ultradoor Waterbase	
Ceram-a-Star 950 Si-Polyester		Ultraflexar Polyester	
Drawable Polyester		Ultraflexar Post Embossed System Polyester	
Epoxy Primers Epoxy		Urethane Primers	
Fluorostar Kynar 70% Fluorocarbon		Visulure Fluorocarbon	
Hydrasea II Water Base Primer		Waterbase Backers	
Modified Urethane Primer		Waterbase Primers	
Phase II Standard Appliance Polyester			
Phase II Standard Appliance Post Embossed Polyester			
Phase V Polyester			
Polyester Backers			
Polyester Primer			
Polydure 500 Polyester			
Polydure 1000 Polyester			
Rel-Shield Vinyl Plastisol			
Trinar Kynar 70% Fluorocarbon			
Urethane			
Urethane Primers			
Waterbase Primers			
Zincrometal			
Epoxy Primers	<b>Industrias Aries</b> Monterrey, Mexico	Dorrform Epoxy A31	<b>Magni International</b> 2771 Hammond Detroit, MI 48209
Polyester Backers		Dorrform Epoxy A32	
Polyester Topcoats		Dorrldraw 102	
Urethane Primers		Acrylics	<b>Morton International</b> 100 North Riverside Plaza Chicago, IL 60606-1598 or 1500 Lathem Street Batavia, IL 60510
12128 Butler Red Flex	<b>Jones Blair Paint Co.</b> 2728 Empire Central Dallas, TX 75235	Clear Alkyd Polyester	
Megaflon (Kynar 70%)	<b>Keeler &amp; Long</b> P.O. Box 460 Watertown, CT 06795	Epoxy Barrier Coat	
Aqualure Acrylic Primer		Epoxy Clear	
Appliance Polyester	<b>Lilly Industrial Coatings</b> 546 West Abbott St. Indianapolis, IN 46225 or 347 Central Avenue Bowling Green, KY 42101	Epoxy Primers	
Aqualure Acrylic		First Coat MP	
Dynakote II Polyester		First Coat XL	
Epoxy Backers		Flexceram II Polyester	
Epoxy Primers		Fluoroceram Kynar 70% Fluorocarbon	
Flexar Polyester		Fluoroceram TF & LG Fluorocarbon	
Krystal Kote Polyester		Fluoroceram Acrylic Primer	
Nubelar Fluorocarbons		HG Backer	
Nubelar HB & HG Fluorocarbons		Inks	
Nubelar Kynar 70% Fluorocarbons		Modified Polyester Primer	
Nubelar Satin Kynar 70% Fluorocarbons		Polyester Backers	
Polykote 3000 Polyester		Polyester Primers	
Polykote 4000 Polyester		Polyceram 100 Polyester	
Polykote 5000 Polyester		Polyceram 320, 320H, 329XL Polyester	
Polykote 6000 Polyester		Polyceram 580 Polyester	
Polykote 7000 Polyester		Polyceram 610 Polyester	
Polykote 9000 & 9000B Polyester		Polyceram 620 Polyester	
Polykote 9200 Polyester		Polyceram 640 Polyester	
Polykote 9300 Polyester		Polyceram 660 Polyester	
Polyester Backers	Polyceram 780 Polyester		
Polyester Enamel	Polyceram 2100 Polyester		
Polyester Primer	Polyceram 3100 Polyester		
Polyure Polyester	Polyceram 3200 Linear Polyester		
Polyurethane Primer	Polycron C		
	Polyester Backer		
	Plastisols		
	Super SP Si-Polyester		
	UltraMet Fluorocarbon		
	Urethane Primers		
	Acrylic Backers	<b>PPG Industries</b> 780 Pittsburgh Dr. Delaware, OH 43015	
	Acrylic Primers		
	Duracron Acrylic		
	Duracron 630 Acrylic		
	Duranar Kynar 70% Fluorocarbons		
	Duranar Plus Fluorocarbons		
	Duranar LG Fluorocarbons		
	Duranar XL Kynar 70% Fluorocarbons		
	Duranar XL Plus Kynar 70% Fluorocarbons		
	Duranar XLE Kynar 70%		
	Environ ST Waterbase		

(continued)



**ANNEX III (Continued)**  
**RUST PREVENTATIVES AND PROTECTIVE COATINGS**  
**OUTSIDE PROCESSING CONTRACTORS**  
(These are in addition to Annex II)

**Paint Systems (continued)**

Product	Manufacturer	Product	Manufacturer
Epoxy Backers Epoxy Primers Omniprime Primer Polycron AP Polyester Polyester Backers Polyester Primers Trudraw Polyester Truform Polyester Urethane Primers	<b>PPG Industries</b> (continued)	Modified Polyester Backer Polyester Backers Polyester Primers Polyester Topcoats (Alamo White) Sparclad VII Si-Polyester Ultraflex Polyester Ultraflex Polyurethane Primer Valcoat Polyester Valshield Plastisol	<b>Valspar Corp.</b> (continued)
Coil Clad 10S Si-Polyester Dynapon Polyester Epoxy Primers Fluroclear Fluorocarbon Fluropon Fluorocarbons Fluropon Classic & Classic II Flurocarbons Fluropon Kynar 70% Fluorocarbons Fluropon Polyester Fluropon Satin Fluorocarbon Flurothane II & IV Kynar 70% Flurocarbons	<b>Valspar Corp.</b> 901 North Greenwood Ave. Kankakee, IL 60901	Polyester Topcoats Polyester Backers Polyester Primers Urethane Primers  Epoxy Primers Polyester Backers Polyester Topcoats	<b>Specialty Coatings Co. Inc.</b> 2500 - 26 Delta Lane Elk Grove, IL 60007  <b>Yenkin-Majestic Paint Corp.</b> 1920 Leonard Avenue Columbus, OH 43219

**Lubricants**

Product	Manufacturer	Product	Manufacturer
Corelube Dry Lube	<b>Coral</b> 135 LeBaron Waukegan, IL 60085	Chemform	<b>PPG Industrial Coatings</b> 760 Pittsburgh Dr. Deiaware, OH 43015
Liquid Naptha	<b>Lilly Industrial Coatings</b> 546 West Abbott St. Indianapolis, IN 46225		

**Pretreatments**

Product	Manufacturer	Product	Manufacturer
B3010 Permatreat 1510 Permatreat 2105 Permatreat 2600 Permatreat 3010 Serigand 7760	<b>Betz-Metchem</b> 33 Kensington Parkway Abingdon, MD 21009	Bonderite 37SA Bonderite 902 Bonderite 1303 Bonderite 1310 Bonderite 1402W Bonderite 1421 Bonderite 4800 Parco Cleaner 335 Parco Cleaner 363 Parco Cleaner 1200 Parcolene 62 Parker 348 37S Zinc Phosphate 1402W Dry-in-Place	<b>Parker Am-Chem</b> 32100 Stephenson Highway Madison Heights, MI 48071
Gardobond 1302 Gardol 1310 Gardobond 901 Gardolene 62 Gardoclean 338	<b>Oakite Products, Inc.</b> 50 Valley Road Berkeley Heights, NJ 07922		



**ANNEX III (Continued)**  
**RUST PREVENTATIVES AND PROTECTIVE COATINGS**  
**OUTSIDE PROCESSING CONTRACTORS**  
**(These are in addition to Annex II)**

**Coating Oils—Hot Rolled**

<b>Product</b>	<b>Manufacturer</b>	<b>Processors Who Use</b>
Daubert Chem X-241	Daubert Chemical Co. 4700 S. Central Ave. Chicago, Illinois 60638	National Processing Co. WorldClass
Nalco 6579	NALCO Chemical Co. 1 Nalco Center Naperville, IL 60563	Worthington — Porter
Prochem 832-8	Prochemco Inc. Ripley & Schneider Sts. Lake Station, IN 46405	Indiana Pickling & Processing
Metalub RP 4107A Metalub RP 4107H	Metal Lubricants Co. 17050 Lathrop Ave. Harvey, Illinois 60426	Steel Warehouse Voss — Lantz
Vulcan HRPS-W Vulcan WSS-ESW	Vulcan Oil Co. 5353 Spring Grove Ave. Cincinnati, Ohio 45217	Steel Warehouse Worthington — Monroe

**Dry Lubes**

<b>Product</b>	<b>Manufacturer</b>	<b>Processors Who Use</b>
MAN-GIL Gilcote 4127	Man-Gil Chemical 23000 St. Clair Ave. Cleveland, Ohio 44117	Valley City Steel Voss — Lantz Steel Warehouse
MAN-GIL Gilcote R2500		Steel Warehouse
Montgomery MIL-BOND MC-560-RI	The H. A. Montgomery Co. 17191 WP Chrysler Freeway Detroit, Michigan 48203	Steel Warehouse Voss — Lantz
TruChem 1800-1 TruChem 1800-3	Tru-Chem Co., Inc. P.O. Box 261001 Columbus, OH 43226	Worthington — Monroe National Processing Co. Voss-Clark
Chemform	PPG Chemfil 1300 Piedmont Troy, MI 48083	Voss-Clark

**LABELS**  
ALLOY STEEL (CODE NOS. 1A001 THROUGH 4A019)



## ALLOY STEEL

**WARNING!** CANCER HAZARD (CONTAINS CHROMIUM AND NICKEL). EXPOSURE TO HIGH CONCENTRATIONS OF DUST OR FUME DURING WELDING, BURNING, MELTING, CUTTING, BRAZING, GRINDING AND POSSIBLY MACHINING, ETC., MAY PRODUCE IMMEDIATE OR DELAYED DAMAGE TO LUNG OR OTHER ORGANS.

THIS PRODUCT MAY BE COATED WITH MATERIALS THAT COULD RESULT IN SKIN IRRITATION WITH PROLONGED CONTACT.

**PRECAUTIONS:** AVOID BREATHING OR INGESTING DUST OR FUME. ADEQUATE VENTILATION IS REQUIRED WHILE WELDING, BURNING, MELTING, CUTTING, BRAZING, GRINDING AND MACHINING.

AVOID SKIN CONTACT IF MATERIAL IS COATED.

**FIRST AID:** FOR OVEREXPOSURE TO AIRBORNE DUST AND FUME, REMOVE EXPOSED PERSON TO FRESH AIR. IF BREATHING IS DIFFICULT OR HAS STOPPED, ADMINISTER ARTIFICIAL RESPIRATION OR OXYGEN AS INDICATED. SEEK MEDICAL ATTENTION PROMPTLY.

IF PRODUCT IS COATED AND EXCESSIVE SKIN CONTACT OCCURS, WASH WITH SOAP AND WATER. IF IRRITATION DEVELOPS, SEEK MEDICAL ATTENTION.

**ADDITIONAL INFORMATION:** REFER TO MATERIAL SAFETY DATA SHEETS USS CODE NOS. 1A001 THROUGH 4A019 FOR FURTHER INFORMATION.

U. S. Steel Group, a division of USX Corp., PO Box 206 (MSDS), Pittsburgh, PA 15230-0206

**LABELS**  
CARBON STEEL (CODE NOS. 1C001 THROUGH 4C020)



## CARBON STEEL

**WARNING!** EXPOSURE TO HIGH CONCENTRATIONS OF DUST OR FUME DURING WELDING, BURNING, MELTING, CUTTING, BRAZING, GRINDING AND POSSIBLY MACHINING, ETC., MAY PRODUCE IMMEDIATE OR DELAYED DAMAGE TO LUNG OR OTHER ORGANS.

THIS PRODUCT MAY BE COATED WITH MATERIALS THAT COULD RESULT IN SKIN IRRITATION WITH PROLONGED CONTACT.

**PRECAUTIONS:** AVOID BREATHING OR INGESTING DUST OR FUME. ADEQUATE VENTILATION IS REQUIRED WHILE WELDING, BURNING, MELTING, CUTTING, BRAZING, GRINDING AND MACHINING.

AVOID SKIN CONTACT IF MATERIAL IS COATED.

**FIRST AID:** FOR OVEREXPOSURE TO AIRBORNE DUST AND FUME, REMOVE EXPOSED PERSON TO FRESH AIR. IF BREATHING IS DIFFICULT OR HAS STOPPED, ADMINISTER ARTIFICIAL RESPIRATION OR OXYGEN AS INDICATED. SEEK MEDICAL ATTENTION PROMPTLY.

IF PRODUCT IS COATED AND EXCESSIVE SKIN CONTACT OCCURS, WASH WITH SOAP AND WATER. IF IRRITATION DEVELOPS, SEEK MEDICAL ATTENTION.

**ADDITIONAL INFORMATION:** REFER TO MATERIAL SAFETY DATA SHEETS — USS CODE NOS. 1C001 THROUGH 4C020 FOR FURTHER INFORMATION.

U. S. Steel Group, a division of USX Corp., PO Box 206 (MSDS), Pittsburgh, PA 15230-0206

LABELS  
HIGH STRENGTH LOW ALLOY (CODE NOS. 3H011, 3H016, 4H020)



## HIGH STRENGTH LOW ALLOY

**WARNING:** EXPOSURE TO HIGH CONCENTRATIONS OF DUST OR FUME DURING WELDING, BURNING, MELTING, CUTTING, BRAZING, GRINDING AND POSSIBLY MACHINING, ETC., MAY PRODUCE IMMEDIATE OR DELAYED DAMAGE TO LUNG OR OTHER ORGANS.

THIS PRODUCT MAY BE COATED WITH MATERIALS THAT COULD RESULT IN SKIN IRRITATION WITH PROLONGED CONTACT.

**PRECAUTIONS:** AVOID BREATHING OR INGESTING DUST OR FUME. ADEQUATE VENTILATION IS REQUIRED WHILE WELDING, BURNING, MELTING, CUTTING, BRAZING, GRINDING AND MACHINING.

AVOID SKIN CONTACT IF MATERIAL IS COATED.

**FIRST AID:** FOR OVEREXPOSURE TO AIRBORNE DUST AND FUME, REMOVE EXPOSED PERSON TO FRESH AIR. IF BREATHING IS DIFFICULT OR HAS STOPPED, ADMINISTER ARTIFICIAL RESPIRATION OR OXYGEN AS INDICATED. SEEK MEDICAL ATTENTION PROMPTLY.

IF PRODUCT IS COATED AND EXCESSIVE SKIN CONTACT OCCURS, WASH WITH SOAP AND WATER. IF IRRITATION DEVELOPS, SEEK MEDICAL ATTENTION.

**ADDITIONAL INFORMATION:** REFER TO MATERIAL SAFETY DATA SHEETS — USS CODE NOS. 3H011, 3H016, 4H020 FOR FURTHER INFORMATION.

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LABELS  
CARBON STEEL LEADED (CODE NO. 3C012, 3C014, 3H012)



## CARBON STEEL-METALLIC COATING

**WARNING!** CANCER HAZARD (CONTAINS LEAD). EXPOSURE TO HIGH CONCENTRATIONS OF DUST OR FUME DURING WELDING, MELTING, CUTTING, BRAZING, GRINDING AND POSSIBLY MACHINING, ETC., MAY PRODUCE IMMEDIATE OR DELAYED DAMAGE TO KIDNEYS, LUNGS OR OTHER ORGANS. EXPOSURE MAY ALSO CAUSE REPRODUCTIVE DISORDERS THROUGH INHALATION OR INGESTION OF LEAD. THIS PRODUCT MAY BE COATED WITH MATERIALS THAT COULD RESULT IN SKIN IRRITATION WITH PROLONGED CONTACT.

**PRECAUTIONS:** AVOID BREATHING OR INGESTING DUST OR FUME. ADEQUATE VENTILATION IS REQUIRED WHILE WELDING, BURNING, MELTING, CUTTING, BRAZING, GRINDING AND MACHINING. AVOID SKIN CONTACT IF MATERIAL IS COATED.

**FIRST AID:** FOR OVEREXPOSURE TO AIRBORNE DUST AND FUME, REMOVE EXPOSED PERSON TO FRESH AIR. IF BREATHING IS DIFFICULT OR HAS STOPPED, ADMINISTER ARTIFICIAL RESPIRATION OR OXYGEN AS INDICATED. SEEK MEDICAL ATTENTION PROMPTLY.

IF PRODUCT IS COATED AND EXCESSIVE SKIN CONTACT OCCURS, WASH WITH SOAP AND WATER. IF IRRITATION DEVELOPS, SEEK MEDICAL ATTENTION.

**ADDITIONAL INFORMATION:** REFER TO MATERIAL SAFETY DATA SHEETS — USS CODE NO. 3C012, 3C014, 3H012 FOR FURTHER INFORMATION.

U. S. Steel Group, a division of USX Corp., PO Box 206 (MSDS), Pittsburgh, PA 15230-0206

LABELS  
CARBON STEEL LEADED (CODE NO. 3C015)



## CARBON STEEL-METALLIC COATING

**WARNING!** CANCER HAZARD (CONTAINS LEAD AND NICKEL). EXPOSURE TO HIGH CONCENTRATIONS OF DUST OR FUME DURING WELDING, MELTING, CUTTING, BRAZING, GRINDING AND POSSIBLY MACHINING, ETC., MAY PRODUCE IMMEDIATE OR DELAYED DAMAGE TO KIDNEYS, LUNGS OR OTHER ORGANS. EXPOSURE MAY ALSO CAUSE REPRODUCTIVE DISORDERS THROUGH INHALATION OR INGESTION OF LEAD. THIS PRODUCT MAY BE COATED WITH MATERIALS THAT COULD RESULT IN SKIN IRRITATION WITH PROLONGED CONTACT.

**PRECAUTIONS:** AVOID BREATHING OR INGESTING DUST OR FUME. ADEQUATE VENTILATION IS REQUIRED WHILE WELDING, BURNING, MELTING, CUTTING, BRAZING, GRINDING AND MACHINING. AVOID SKIN CONTACT IF MATERIAL IS COATED.

**FIRST AID:** FOR OVEREXPOSURE TO AIRBORNE DUST AND FUME, REMOVE EXPOSED PERSON TO FRESH AIR. IF BREATHING IS DIFFICULT OR HAS STOPPED, ADMINISTER ARTIFICIAL RESPIRATION OR OXYGEN AS INDICATED. SEEK MEDICAL ATTENTION PROMPTLY.

IF PRODUCT IS COATED AND EXCESSIVE SKIN CONTACT OCCURS, WASH WITH SOAP AND WATER. IF IRRITATION DEVELOPS, SEEK MEDICAL ATTENTION.

**ADDITIONAL INFORMATION:** REFER TO MATERIAL SAFETY DATA SHEETS — USS CODE NO. 3C015 FOR FURTHER INFORMATION.

U. S. Steel Group, a division of USX Corp., PO Box 206 (MSDS), Pittsburgh, PA 15230-0206

LABELS  
HIGH STRENGTH LOW ALLOY (CONTAINING CHROMIUM AND/OR NICKEL)  
(CODE NOS. 1H001, 1H004, 4H019)



**HIGH STRENGTH LOW ALLOY**  
(CONTAINING CHROMIUM AND/OR NICKEL)

**WARNING:** CANCER HAZARD (CONTAINS CHROMIUM AND/OR NICKEL). EXPOSURE TO HIGH CONCENTRATIONS OF DUST OR FUME DURING WELDING, BURNING, MELTING, CUTTING, BRAZING, GRINDING AND POSSIBLY MACHINING, ETC., MAY PRODUCE IMMEDIATE OR DELAYED DAMAGE TO LUNG OR OTHER ORGANS.

THIS PRODUCT MAY BE COATED WITH MATERIALS THAT COULD RESULT IN SKIN IRRITATION WITH PROLONGED CONTACT.

**PRECAUTIONS:** AVOID BREATHING OR INGESTING DUST OR FUME. ADEQUATE VENTILATION IS REQUIRED WHILE WELDING, BURNING, MELTING, CUTTING, BRAZING, GRINDING AND MACHINING.

AVOID SKIN CONTACT IF MATERIAL IS COATED.

**FIRST AID:** FOR OVEREXPOSURE TO AIRBORNE DUST AND FUME, REMOVE EXPOSED PERSON TO FRESH AIR. IF BREATHING IS DIFFICULT OR HAS STOPPED, ADMINISTER ARTIFICIAL RESPIRATION OR OXYGEN AS INDICATED. SEEK MEDICAL ATTENTION PROMPTLY.

IF PRODUCT IS COATED AND EXCESSIVE SKIN CONTACT OCCURS, WASH WITH SOAP AND WATER. IF IRRITATION DEVELOPS, SEEK MEDICAL ATTENTION.

**ADDITIONAL INFORMATION:** REFER TO MATERIAL SAFETY DATA SHEETS USS CODE NOS. 1H001, 1H004, 4H019 FOR FURTHER INFORMATION.

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