



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® Sheet	3C016		3H016
Electrical Sheet	3C017	3A017	
Standard Pipe	4C018		
Oil Country Goods	4C019	4A019	4H019
Line Pipe and Couplings	4C020		4H020

ANNEX I
TYPICAL LEVELS OF TRACE OR RESIDUAL ELEMENTS IN STEELS

ELEMENT			% WEIGHT
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 24B
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 Baln 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/Amalie Division Wilco Chemical Corp.
Rust Veto 4225	Houghton International, Inc.
Rust Veto 76-T	Houghton International, Inc.
API Modified Thread Compound	Bestolife Corporation
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
GRPS-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

Product	Manufacturer	Product	Manufacturer
Ceram-a-sil Si-Polyester Ceram-a-Star 900 Si-Polyester Ceram-a-Star 950 Si-Polyester Drawable Polyester Epoxy Primers Epoxy Fluorostar Kynar 70% Fluorocarbon Hydrasea II Water Base Primer Modified Urethane Primer 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	AKZO-NOBEL Coatings 313 Windsor P.O. Box 147 Columbus, OH 43211	Ultralure Waterbase Ultradoor Waterbase Ultraflexar Polyester Ultraflexar Post Embossed System Polyester Urethane Primers Visulure Fluorocarbon Waterbase Backers Waterbase Primers	Lilly Industrial Coatings (continued)
Epoxy Primers Polyester Backers Polyester Topcoats Urethane Primers	Industrias Arles Monterrey, Mexico	Dorrform Epoxy A31 Dorrform Epoxy A32 Dorrdraw 102	Magni International 2771 Hammond Detroit, MI 48209
12128 Butler Red Flex	Jones Blair Paint Co. 2728 Empire Central Dallas, TX 75235	Acrylics Clear Alkyd Polyester Epoxy Barrier Coat Epoxy Clear Epoxy Primers First Coat MP First Coat XL Flexceram II Polyester Fluoroceram Kynar 70% Fluorocarbon Fluoroceram TF & LG Fluorocarbon Fluoroceram Acrylic Primer HG Backer Inks Modified Polyester Primer Polyester Backers Polyester Primers Polyceram 100 Polyester Polyceram 320, 320H, 329XL Polyester Polyceram 580 Polyester Polyceram 610 Polyester Polyceram 620 Polyester Polyceram 640 Polyester Polyceram 660 Polyester Polyceram 780 Polyester Polyceram 2100 Polyester Polyceram 3100 Polyester Polyceram 3200 Linear Polyester Polycron C Polyester Backer Plastisols Super SP Si-Polyester UltraMet Fluorocarbons Urethane Primers	Morton International 100 North Riverside Plaza Chicago, IL 60606-1598 or 1500 Lathem Street Batavia, IL 60510
Megaflon (Kynar 70%) Aqualure Acrylic Primer	Keeler & Long P.O. Box 460 Watertown, CT 06795	Acrylic Backers Acrylic Primers Duracron Acrylic Duracron 630 Acrylic Duramar Kynar 70% Fluorocarbons Duramar Plus Fluorocarbons Duramar LG Fluorocarbons Duramar XL Kynar 70% Fluorocarbons Duramar XL Plus Kynar 70% Fluorocarbons Duramar XLE Kynar 70% Environ ST Waterbase	PPG Industries 760 Pittsburgh Dr. Delaware, OH 43015
Appliance Polyester Aqualure Acrylic Dynakote II Polyester Epoxy Backers Epoxy Primers Flexar Polyester Krystal Kote Polyester Nubelar Fluorocarbons Nubelar HB & HG Fluorocarbons Nubelar Kynar 70% Fluorocarbons Nubelar Satin Kynar 70% Fluorocarbons Polykote 3000 Polyester Polykote 4000 Polyester Polykote 5000 Polyester Polykote 6000 Polyester Polykote 7000 Polyester Polykote 9000 & 9000B Polyester Polykote 9200 Polyester Polykote 9300 Polyester Polyester Backers Polyester Eriamel Polyester Primer Polyure Polyester Polyurethane Primer	Lilly Industrial Coatings 546 West Abbott St. Indianapolis, IN 46225 or 347 Central Avenue Bowling Green, KY 42101		

(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	PPG Industries (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	Valspar Corp. (continued)
Coil Clad 10S Si-Polyester Dynapon Polyester Epoxy Primers Fluorclear Fluorocarbon Fluropon Fluorocarbons Fluropon Classic & Classic II Fluorocarbons Fluropon Kynar 70% Fluorocarbons Fluropon Polyester Fluropon Satin Fluorocarbon Flurothane II & IV Kynar 70% Fluorocarbons	Valspar Corp. 901 North Greenwood Ave. Kankakee, IL 60901	Polyester Topcoats Polyester Backers Polyester Primers Urethane Primers Epoxy Primers Polyester Backers Polyester Topcoats	Specialty Coatings Co. Inc. 2500 - 26 Delta Lane Elk Grove, IL 60007 Yenkin-Majestic Paint Corp. 1920 Leonard Avenue Columbus, OH 43219

Lubricants

Product	Manufacturer	Product	Manufacturer
Corelub Dry Lube	Coral 135 LeBaron Waukegan, IL 60085	Chemform	PPG Industrial Coatings 760 Pittsburgh Dr. Delaware, OH 43015
Liquid Naptha	Lilly Industrial Coatings 546 West Abbott St. Indianapolis, IN 46225		

Pretreatments

Product	Manufacturer	Product	Manufacturer
B3010 Permatreat 1510 Permatreat 2105 Permatreat 2600 Permatreat 3010 Serlgand 7760	Betz-Metchem 33 Kensington Parkway Abingdon, MD 21009	Bonderite 37SA Bonderite 902 Bonderite 1303 Bonderite 1310 Bonderite 1402W Bonderite 1421 Bonderite 4800 Parco Cleaner 338 Parco Cleaner 363 Parco Cleaner 1200 Parcolene 62 Parker 348 37S Zinc Phosphate 1402W Dry-In-Place	Parker Am-Chem 32100 Stephenson Highway Madison Heights, MI 48071
Gardobond 1303 Gardal 1310 Gardobond 901 Gardolene G2 Gardoclean 338	Oakite Products, Inc. 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

Product	Manufacturer	Processors Who Use
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

Product	Manufacturer	Processors Who Use
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 Chemfill 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



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.

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

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)



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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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