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.

J. F. Quealy

Manager-Industrial Hygiene

Original Issue Date: 8/1/85 Reference: 6/97

### MSDS INDEX FOR STEEL PRODUCTS

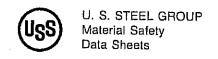
USS	Cod	e Ni	ımb	er

PRODUCT CATEGORY	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

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

ELEME	NT		% WEIGHT
Aluminum	Al	(7429 - 90 - 5)	0.002 - 0.1
Arsenic	As	(7440 - 38 - 2)	0.005 - 0.008
Boron	В	(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	Со	(7440 - 48 - 4)	<0.005 - 0.009
Copper	Cu	(7440 - 50 - 8)	0.009 - 0.18
Lead	Pb	(7440 - 92 - 1)	<0.001
Molybdenum	Мо	(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	Tī	(7440 - 32 - 6)	0.001 - 0.004
Vanadium	V	(7440 - 62 - 3)	0.001 - 0.003
Zirconium	Zr	(7440 - 67 - 7)	0.002



Original Issue Date: 8/1/85

Revision Date: 12/87, 1/90, 1/91, 1/92, 1/94

Reference: 6/97

# 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/Amalle 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

Naico Chemical Company One Naico 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

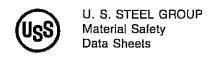
Research Metal Fluids
Division of Research Solvents
and Chemicals, Inc.
133 Bain Drive
LaVergne, TN 37086
615-793-6737

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 Oll & Chemical Products 5353 Spring Grove Avenue Cincinnati, OH 45217 513-242-2672



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Reference: 6/97

#### ANNEX II — RUST PREVENTATIVES AND PROTECTIVE COATINGS

#### **FAIRFIELD WORKS**

Sheet Products

Nalco 6292BD Rust Preventative Nalco 6292 Rust Preventative Naico 6925 Temper

Mill Coolant Ferrocote 61A-US Gen05 Meropa Oils

Stripclean 37XL KS 6-900 SF 4000

Pickle Line

RPO 50 SI Pickle Oil

Galvanized Products Oakite Okemcoat F1 02601 Meropa 100 (Gen05 Meropa Oils)

Pennsteel 100 Oakite Gardobond VP 4918

Pipe Products

Kendex OCTG Orange Corrosion Inhibitor Rust Veto 4225 Rust Veto 76-T API Modified Thread Compound Bestolife 2000 Bestolife 2000 Arctic Grade

Resco Alpha Grind RD G-4823 S/A Pipe Coatings

G-4815-P1 Ultraviolet Cured

Clear Coating

HAP Free Clear Pipe Coating

Nalco Chemical Company Nalco Chemical Company Nalco Chemical Company

Quaker Chemical Corporation Texaco Lubricants Company Atochem North America, Inc. Atochem North America, Inc. Atochem North America, Inc.

MIII Chemicals & Lubricants

Oakite Products, Inc. Texaco Lubricants Company

Atochem North America, Inc. Oakite Products, Inc.

Kendall/Amalie Division Witco Chemical Corp. Houghton International, Inc. Houghton International, Inc. Bestolife Corporation

Bestolife Corporation Research Metal Fluids -Research Solvents &

Ranbar Technology, Inc.

#### **FAIRLESS WORKS**

Black Plate, Cold and Hot Rolled Products

K-14FN KS 6-200A

D. A. Stuart Company Atochem North America, Inc.

**Double Cold Reduction** 

Prolube MR 500EP Rolling Oil Temper Shield 33

**Electrolytic Tin Products** Citroflex A-4

Sodium Dichromate, Dihydrate

Moreflex, Inc.

**Galvanized Products** 

Draw Clean V Ferrocote 61-MAL-HCL-1

Ferrocote 61A-US

Tin Free Steel Products

B-55 K Lubricant Citroflex A-4

#1 Recoiler DOS-CS

T. G. Chemicals

D. A. Stuart Company

Prochemco, Inc.

Oakite Products, inc.

Quaker Chemical Corporation Quaker Chemical Corporation

Prochemco, Inc. Moreflex, Inc.

Chem and Lube

#### **GARY WORKS**

Hot Rolling Division - Hot Roll Finishing

Ferrocote 61A-US

Quaker Chemical Corporation

Nalco Chemical Company

Sheet Products Division - East Galvanize

Ferrocote 61A-US (Strip Oil) Ferrocote 61-MAL-HCL

(Pre Lube)

Chem Treat CT-4

Sheet Products Division - 2-Stand Temper Mill

Nalco 6292

Nalco 6295

Bestolife Corporation

Chemicals

Ranbar Technology, Inc.

Titan Coatings, Inc.

### Dacar Chemical Company

Ferrocote 61-MAL-HCL-1 Ferrocote 61A-US

Ferrocote 61A-US Ferrocote EGL-1-ST Ferrocote EGL-1 Ferrocote 61-MAL-HCL-1 015D-P3 Coating Oil

Nalco Chemical Company Sheet Products Division - Electro-Galvanize Line Quaker Chemical Corporation Quaker Chemical Corporation Quaker Chemical Corporation Quaker Chemical Corporation

> Vulcan Oil & Chemical **Products**

#### Sheet Division — North Sheet Mili

Ferrocote 61A-US Daubert Nox Rust X-111

ESTL-634

Quaker Chemical Corporation Daubert Chemical Co. Vulcan Oil & Chemical

**Products** 

**ESTL-636** Vulcan Oil & Chemical

Products

#### Sheet Division — Continuous Pickle

Steel Shield PL-910 S CRPS-90 GW Pickle Oil

Steel Shield PL-955 GW

Ferrocote 61A-US Ferrocote 61-MAL-HCL-1

Chemseal 20 Tru-Zite #2-107F Rinse Conditioner

D. A. Stuart Company Vulcan Oil & Chemical Products

D. A. Stuart Company Quaker Chemical Corporation Quaker Chemical Corporation

PPG Chemfil PPG Chemfil PPG Chemfil

Chem Treat CT-4 Dacar Chemical Company

#### Tin Products — Electrolytic Tin Products

Proclean-LG-1

B-55K Prolube 500 EP

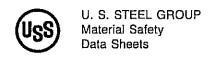
Progrind 357 Coolant & RP Hydrashield 51

Prochemco, Inc. Prochemco, Inc. Prochemco, Inc. Prochemco, Inc. D. A. Stuart Company

Tin Products — Tin Finishing

Proclean LG-1

Prochemco, Inc.



Original Issue Date: 8/1/85

Revision Date: 12/87, 1/90, 1/91, 1/92, 1/94

Reference: 6/97

# 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

Owerl 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

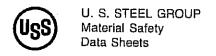
Castrol Industrial Inc.

Oakite Okemcoat F1

Oakite Products, Inc.

Oakite Gardobond VP 4918

Oakite Products, Inc.



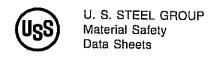
Original Issue Date: 1/94

Reference: 6/97

# 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	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)
Embossed Polyester Phase V Polyester Polyester Backers		Dorriform Epoxy A31 Dorriform Epoxy A32 Dorridraw 102	Magni International 2771 Hammond Detroit, MI 48209
Polyester Primer Polydure 500 Polyester Polydure 1000 Polyester Rei-Shield Vinyl Plastisol Trinar Kynar 70% Fluorocarbon Urethane Urethane Primers Waterbase Primers		Acrylics Clear Alkyd Polyester Epoxy Barrier Coat Epoxy Clear Epoxy Primers First Coat MP First Coat XL Flexceram II Polyester	Morton International 100 North Riverside Plaza Chicago, IL 60606-1598 or 1500 Lathern Street Batavia, IL 60510
Zincrometal  Epoxy Primers Polyester Backers Polyester Topcoats	industrias Arles Monterrey, Mexico	Fluoroceram Kynar 70% Fluorocarbon Fluoroceram TF & LG Fluorocarbon Fluoroceram Acrylic Primer HG Backer	
Urethane Primers	•	inks Modified Polyester Primer	
12128 Butler Red Flex	Jones Blair Paint Co. 2728 Empire Central Dallas, TX 75235	Polyester Backers Polyester Primers Polyceram 100 Polyester	
Megafion (Kynar 70%) Aqualure Acrylic Primer	Keeler & Long P.O. Box 460 Watertown, CT 06795	Polyceram 320, 320H, 329XL Polyester Polyceram 580 Polyester Polyceram 610 Polyester Polyceram 620 Polyester	
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	Lilly Industrial Coatings 546 West Abbott St. Indianapolis, IN 46225 or 347 Central Avenue Bowling Green, KY 42101	Polyceram 640 Polyester Polyceram 660 Polyester Polyceram 780 Polyester Polyceram 2100 Polyester Polyceram 3100 Polyester Polyceram 3200 Linear Polyester Polyceram 3200 Linear Polyester Polyceram 640 Polyester Polyceram 650 Polyester Polyester Backer Plastisols Super SP Si-Polyester UltraMet Fluorocarbons Urethane Primers	
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	·	Acrylic Backers 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%	PPG Industries 760 Pittsburgh Dr. Delaware, OH 43015
i with onibile t tillet		Environ ST Waterbase	(continued)



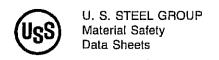
Original Issue Date: 1/94

Reference: 6/97

# 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 Ultrafiex Polyester Uttrafiex Polyurethane Primer Valcoat Polyester Valshield Plastisol	Valspar Corp. (continued)
Coil Clad 10S Si-Polyester Dynapon Polyester Epoxy Primers Fluroclear Fluorocarbon	Valspar Corp. 901 North Greenwood Ave. Kankakee, IL 60901	Polyester Topcoats Polyester Backers Polyester Primers Urethane Primers	Specialty Coatings Co. Inc. 2500 - 26 Delta Lane Elk Grove, IL 60007
Fluropon Fluorocarbons Fluropon Classic & Classic II Fluorocarbons Fluropon Kynar 70% Fluorocarbons Fluropon Polyester Fluropon Satin Fluorocarbon Flurothane II & IV Kynar 70% Fluorocarbons		Epoxy Primers Polyester Backers Polyester Topcoats	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 Abington, MD 21009	Bonderite 37SA Bonderite 902 Bonderite 1303 Bonderite 1310 Bonderite 1402W Bonderite 1421	Parker Am-Chem 32100 Stephenson Highway Madison Heights, MI 48071
Gardobond 1303 Gardal 1310 Gardobond 901 Gardolene 62 Gardoclean 338	Oakite Products, Inc. 50 Valley Road Berkeley Heights, NJ 07922	Bonderite 4800 Parco Cleaner 338 Parco Cleaner 363 Parco Cleaner 1200 Parcolene 62 Parker 348 37S Zinc Phosphate	



Original Issue Date: 1/94

Reference: 6/97

# 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 Chemfil 1300 Piedmont	Voss-Clark

Troy, MI 48083



#### **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 VEN-TILATION 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 VEN-TILATION 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.



## 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.



# **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.



## 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.