

WHEATLAND TUBE COMPANY

Wheatland, PA 16161

(724) 342-6851

Fax: (724) 342-0294

Dear Customer:

Enclosed is a Wheatland Tube Company Material Safety Data Sheet for the pipe products that you purchase. It is the continuing policy of Wheatland Tube Company to provide to our customers, health, safety and environmental protection information that is appropriate for handling and utilizing 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 receives this information so that it can be communicated to those employees having contact with these products.

A revised Material Safety Data Sheet will be forwarded to you when significant changes of the information contained therein necessitate publication of an updated copy.

Addendum 2 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 addendum lists the coatings which are applied and the manufacturer'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 will make it possible for the manufacturer or supplier to send copies of Material Safety Data Sheets directly to you, as a user of that product, when revised MSDS'S are produced.

Also contained in the package is a label that can be reproduced or the information contained therein extracted for label-producing purposes.

Hazard Communication Programs are of the utmost importance to Wheatland Tube Company. We believe this information will be very beneficial to your Hazard Communication Program and we welcome any inquiries regarding additional information that you may require.

JACK A. GRUBER, Ph.D.
DIRECTOR - TECHNICAL SERVICES

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MATERIAL SAFETY DATA SHEET**

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Original Issue Date: 11/01/85

MSDS #268

Revision Date: 06/05/90 #2 02/05/99 #5
 08/24/92 #3 06/28/99 #6
 06/15/95 #4 11/08/01 #7

EMERGENCY TELEPHONE NUMBER (724) 342-6851

CONTACT: Dr. J.A. Gruber

I. IDENTIFICATION

PRODUCT NAME: CBW Pipe-ERW Pipe-Carbon Steel ASTM STANDARD A 53, A 501, A513, A 589, A 795, A 618, A 865, API STANDARD 5A, 5L,
UL STANDARD 6, 797, 1242, Wheatland Product MLT, MEGA-FLOW, MEGA-THREAD, WLS, WST, GC

COMMON NAMES: Standard Pipe, Schedule 40, Fence Pipe, Mechanical Tubing and Pipe, Schedule 10, Plumbing Pipe, Sprinkler Pipe, Water Pipe, Line Pipe, Gas Pipe, Steam Pipe, Extra Heavy Pipe, Schedule 80, R & D, Rigid Conduit, EMT, IMC, Couplings and Coupling Stock.

CAS NO. 65997-19-5

Manufacturer:	Wheatland Tube Company	
1 Council Avenue	4435 South Western Blvd	8200 Frazier-Pike Road
Wheatland, PA 16161	Chicago, IL 60609	Little Rock, AR 72206

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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).

BASE METAL, ALLOYING ELEMENTS AND METAL COATINGS	% WEIGHT	EXPOSURE LIMITS	
		OSHA PEL	ACGIH TLV
Base Metal: Iron (1309-37-1 as iron-oxide fume)	98-99	10 mg/M ³ for iron oxide fume	5 mg/M ³ for iron oxide fume
Alloying Elements:			
Carbon	.06-.13	None	None
(7440-44-0)	.14-.18	Established	Established
	.18-.23		
Manganese	.30-.60	(c) 5 mg/M ³	5 mg/M ³ -dust
(7439-96-5)	.70-1.15		1 mg/M ³ fume
Phosphorus	.015-.035	None for	None for
(7723-14-0)	.040 max	inorganic phosphates	Inorganic phosphates
Sulfur as SO ₂	.040 max	13 mg/M ³	5.2 mg/M ³
(7446-09-5)	.050 max		(c) 13 mg/M ³
Metallic Coating*			
Zinc	.070-6.0	5 mg/M ³	10 mg/M ³ -total
(1314-13-2 as zinc oxide)			ZnO dust
			5 mg/M ³
			Respirable ZnO
			Dust & fume
			(s) 10 mg/M ³

(c) denotes "ceiling limit" which is not to be exceeded at any time

(s) denotes Short Term Exposure Limit (STEL)

Varnish coating may be used; See Addendum II

*Galvanized pipe only.

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.

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III. PHYSICAL DATA

MELTING POINT

Base Metal: 2750 F
Metallic Coating: 800-900F

Appearance and Odor:

Metallic Gray
No Odor

IV. FIRE AND EXPLOSION HAZARD DATA

Steel products in the solid state present no fire or explosion hazard and do not contribute to the combustion of other products.

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 of the coating, galvanized pipe may liberate zinc fumes.

VI. HEALTH HAZARD DATA

HMIS CODE: H = 1, F = 0, R = 0

NOTE: Steel products under normal conditions do not present an inhalation, ingestion, or contact health hazard. However, operations such as burning, welding, sawing, brazing, grinding, and possibly machining, etc. which result in elevating the temperature of the product to or above its melting point or results in the generation of airborne particulate, may present health hazards.

EFFECTS OF OVEREXPOSURE

**MAJOR EXPOSURE HAZARD
INHALATION**

Chronic inhalation of high concentration of iron oxide fumes or dusts may lead to a benign pneumoconiosis. Inhalation of high concentrations of ferric oxide may possibly enhance the risk of lung cancer development in workers exposed to pulmonary carcinogens.

The inhalation of high concentrations of freshly formed oxide fumes and dusts of Manganese, Copper, Lead and/or Zinc in the respirable particle size range can cause an influenza-like illness termed metal fume fever. Typical symptoms last 12 to 48 hours and are characterized by metallic taste in the mouth, dryness and irritation in the throat, followed by weakness, muscle pain, fever and chills.

EMERGENCY AND FIRST AID PROCEDURES

For overexposure to airborne fumes and particulate, remove exposed person to fresh air. If breathing is difficult or has stopped, 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 medication. Seek medical attention.

VII. SPILL OR LEAK PROCEDURES

NOT APPLICABLE TO STEEL IN THE SOLID STATE.

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VII. SPECIAL PROTECTION INFORMATION

RESPIRATORY

NIOSH/MSHA-approved dust and fume respirators should be used to avoid excessive inhalation of particulate. 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, sawing, brazing, grinding, or machining operations.

VENTILATION:

Local exhaust ventilation should be provided when welding, burning, sawing, brazing, grinding, or machining to prevent excessive dust or fume exposure.

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

Operations with the potential for generating high concentrations of airborne particulate 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 (i.e.: asthma, chronic bronchitis, emphysema, etc.) may be adversely affected by any fume or airborne particulate matter exposure.

This information is taken from sources or based upon data believed to be reliable; however, Wheatland Tube Company makes no warranty as to the absolute correctness or sufficiency of any of the foregoing or that additional or other measures may not be required under particular conditions.

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ADDENDUM 1

In compliance with U.S. Environmental Protection Agency regulations that became effective on January 1, 1989, this addendum is to inform you that the products covered by our Material Safety Data Sheet #268 contains one or more of the below listed chemicals that are subject to reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

Manganese Zinc Phosphorus

Refer to Section 2 of the Material Safety Data Sheet for the CAS numbers and percent by weight for each of the chemicals listed.

The above referenced law requires certain manufacturers to report annual emissions of specified toxic chemicals and chemical categories. If you are unsure if you must report or, if you require more information, call the EPA Emergency Planning and Community Right-To-Know Hotline (800)535-0202 or (202)479-2449 (in Washington, DC or Alaska).

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ADDENDUM 2

RUST PREVENTATIVES AND PROTECTIVE COATINGS

Division	Product	Source
W	G4894-A Tinted Pipe Coating Paint	Ranbar Technology Inc, 1114 Wm. Flinn Highway Glenshaw, PA 15116 412-486-1111 1-800-486-1113
W	Sodium Bichromate	Occidental Chemical Corp. Occidental Tower PO Box 809050 Dallas, TX 75380 800-752-5151
W	Zinc Metal- Slabs	Noranda, Inc. 181 Bay Street, Suite 4100 P.O. Box 755 Toronto, Ontario Canada MSJ 2T3 416-982-7111
W	Zinc Metal- Slabs	Cominco 120 Adelaide Street West Suite 1700 Toronto, Ontario, Canada M5H 1T1 416-943-6263
W	Zinc Metal- Slabs	Allied Deal 180 Centennial Avenue Piscataway, NJ 08854 732-885-5991
W, C	Zinc Metal- Wire	Plat Brothers P.O. Box 1030 Waterbury, OH 06721 203-753-4191

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Division	Product	Source
W	Zinc Metal Slabs	Zinc Corp. of America 300 Frankfort Road Monica, PA 15061 412-773-2216
W, LR W W	L4042A Pipe Coating Varnish L3843 Tinted Quick Dry Lead Free Varnish L 4137 Silver Thread Paint	Mahoning Paint Corp. PO Box 1282 Youngstown, OH 44501 216-744-2139
W	3M Scotchkote Fusion Bonded Epoxy Coating Brand 206N	3M Corporation 3M Austin Center 6801 River place Blvd Austin , Texas 78726-9000 800-722-6721
W	Future Fluids 2084	K.J. Dobay, Inc. 2021 Buckingham Drive Mars, PA 16046 724-779-1888
W	Polar RP 1135	Polar, Inc. 7031 corporate Way Dayton, Oh 45459 937 436 0099
W	TG Thread Compound	Sefco, Inc. 14813 Venture Drive Dallas, TX 75234 214-247-7418
W	Ease-On Pipe Joint Lubrication	Seacord Corporation 17 th & Mickle Streets Camden, NJ 08105 609-966-0440
W	Ferrocoat 112 DT	Quaker Chemical Corporation Elm and Lee Street Conshohocken, PA 19428 215-828-4250

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Division	Product	Source
C	Zinc Metal- Slabs	Big River Zinc Route #3 Monsanto Avenue Sauget, IL 62201 618-274-5000
C, LR	Oakite Okemcoat F2	Oakite Products Inc. 50 Valley Road Berkeley Heights, NJ 07922 908-464-6900 1-800-526-4473
W C LR C, LR LR LR LR	Z888795 Clear OD Pipe Ctg KKC-00299 KXC-0048 AXA0442 WLA0086 KKC-0205 64 000WB-2	Valspar Corporation 1101 3 rd Street South Minneapolis, MN 55415 612-375-7371
C C C, LR C, LR C, LR LR	ID-103 ID-105 ID-109 ID-105 (modified-Al). OD-236 ID-111 Silver End Spray	Crest Industries, Ltd. 1066 Industry Road New Lenox, IL 60451 815-485-2138
LR	Zinc Metal –Slabs	Savage Zinc P.O. Box 1104 Clarksville, Tennessee 37041-1104 931-552-4200
LR	Water Base A.D. Thread Coating	Dura Coat Products 10938 Beech Ave. Fontana, CA 92337 909-823-2499
LR	Water Base A.D. Thread Coating	Dura Coat Products 10938 Beech Ave. Fontana, CA 92337 909-823-2499
C, LR C, LR C	W-1734 W-1735 V-1861-01	Thermoclad Corp 361 West 11 Street Erie, PA 16501 814-456-1243

LR	Rust Veto 343	Houghton International, Inc. P.O. Box 930 Valley forge, PA 19482 215-666-4105
W	Zinc Metal Slabs	Falconbridge Limited Kidds Creek Division Timmins, Ontario, Canada