WHEATLAND TUBE COMPANY

MATERIAL SAFETY DATA SHEET

Original Issue Date: 11/01/85 MSDS #268

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EMERGENCY TELEPHONE NUMBER - Main Plant (724) 342-6851
CONTACT: J.A. Gruber – Direct Line (724) 983 2555

I. IDENTIFICATION

PRODUCT NAME: CBW Pipe-ERW Pipe-Carbon Steel, ASTM STANDARD A 53, A 135, A 501, A 513, A 589, A 733, A 795, A 618, A 865, F1043, F1083,API STANDARD 5A, 5L,
UL STANDARD 6, 797, 1242, Wheatland Product MLT, MEGA-FLOW, MEGA-THREAD, WLS, WST, GC, WT-40, WT-30

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, Fittings, Nipples and Coupling Stock.

CAS NO. 65997-19-5

Manufacturer: Wheatland Tube Company

1 Council Avenue
Wheatland, PA 16161

4435 South Western Blvd
Chicago, IL 60609

8200 Frazier-Pike Road
Little Rock, AR 72206

200 Clark Street
Sharon, PA 16146

901 Dietz Road
Warren, Ohio 44438

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 (7440-44-0)	< .25	15 mg/M^3-total dust PNOR 5 mg/M^3 RF - PNOR	None Established
Manganese (7439-96-5)	< 1.20	(c) 5 mg/M^3	0.2 mg/M^3
Phosphorus (7723-14-0)	< .050	None for inorganic phosphates	None for inorganic phosphates
Sulfur as SO_2 (7446-09-5)	< .50	13 mg/M^3	5.2 mg/M^3 13 mg/M^3 (s)
Copper (7440-50-8)	< .10	1.0 mg/M^3-dust, 0.1 mg/M^3 fume	1.0 mg/M^3 dust, 0.2 mg/M^3 - fume
Nickel (7440-02-0)	< .10	1.0 mg/M^3	0.2 mg/M^3 insoluble inorganic compounds
Chromium (7440-47-3)	< .10	1.0 mg/M^3	0.05 mg/M^3
Vanadium as V_2O_5 (1314-62-1)	< .10	0.05 mg/M^3 – dust (c) 0.1 mg/M^3 – fume	(c) 0.05 mg/M^3 – dust, (c) 0.05 mg/M^3 – fume
Metallic Coating*			
Zinc	.070-6.0	15 mg/M^3-total	10 mg/M^3-total
(1314-13-2 as zinc oxide)		ZnO dust	ZnO dust
		5 mg/M^3	2 mg/M^3
		Respirable ZnO	Respirable ZnO
		Dust & fume	Dust & fume
		5 mg/M^3	(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)
RF denotes Respirable Fraction
PNOR – Particulates Not Otherwise Regulated
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.

III. PHYSICAL DATA

MELTING POINT		Appearance and Odor:
Base Metal:	2750 F	Metallic Gray
Metallic Coating:	800-900F	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.

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.

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

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 is available upon request from:

JACK A. GRUBER
DIRECTOR - TECHNICAL SERVICES
Direct Line (724) 983 2555
Fax (724) 346 7158

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).