



(412) 266-8200
800-245-4800
Fax (412) 266-5702

P.O. Box 55 • Leetsdale, Pennsylvania 15056

800-STL-BARS



Distributed By -

FREEMAN Mfg. & Supply Co.

1101 MOORE ROAD

AVON, OHIO 44011-1011 (800) 321-8511

MATERIAL SAFETY DATA SHEET

TURRET STEEL CORP - DISTRIBUTOR

EMERGENCY TELEPHONE NUMBER: (412)-266-8200 OR LOCAL POISON CONTROL CENTER

REVISED: JUNE 1, 1997

PRODUCT:

CARBON AND LOW ALLOY STEEL BARS, BILLETS, AND INGOTS

CHEMICAL FAMILY:

STEEL

GRADES:

CARBON STEEL	1000	1100	1200	1500						
ALLOY STEEL	CHROMIUM, NICKEL CHROMIUM AND NICKEL-CHROMIUM/MOLYBDENUM ST									
	3300	4000	4100	4300	4600	4800	5000	5200	6100	8600
	8800	8300	9200	9300						

CHEMICAL MAKEUP:

HAZARDOUS INGREDIENTS	CAS#	OSHA PEL	TLV/TWA	RANGE%
IRON				94/98
IRON OXIDE DUST	1309-37-1	10mg/m3	5mg/m3	
MANGANESE	7439-96-5	1mg/m3	5mg/mg	0-2
CHROMIUM	7740-47-3	1mg/m3	.5mg/m3	0-2.1
NICKEL	7740-02-0	1mg/m3	1mg/m3	0-5.0

PHYSICAL DATA:

APPEARANCE/ODOR -	SOLID, ODORLESS, METALLIC LUSTER
BOILING POINT -	N/A
VAPOR PRESSURE/DENSITY -	N/A
SOLUBILITY IN WATER -	N/A
SPECIFIC GRAVITY (H2O=1) -	8
PERCENT VOLATILE BY VOLUME -	N/A
EVAPORATION RATE -	N/A
MELTING POINT -	2500 F

FIRE AND EXPLOSION HAZARD:

FLASH POINT - N/A	UNUSUAL FIRE & EXPLOSION
EXTINGUISHING MEDIA - N/A	HAZARDS - N/A
SPECIAL FIRE FIGHTING PROCEDURES - N/A	FLAMMABLE LIMITS - N/A

HEALTH HAZARD DATA:

INHALATION/SKIN CONTACT

IN ITS SOLID FORM, NO TOXIC EFFECTS SHOULD BE EXPECTED. PROLONGED EXPOSURE TO FUMES OR DUST GENERATED DURING HEATING, CUTTING, WELDING, OR MELTING MAY CAUSE RESPIRATORY OR OTHER ADVERSE HEALTH EFFECTS.

EFFECTS OF OVEREXPOSURE:

ACUTE

IRON OXIDE/MANGANESE - IRRITATION OF EYES, NOSE, THROAT
CHROMIUM/NICKEL - IRRITATION OF EYES AND LUNGS; DERMATITIS

CHRONIC

IRON OXIDE/MANGANESE - PULMONARY EFFECTS; SIDEROSIS
CHROMIUM/NICKEL - DERMATITIS; UPPER RESPIRATORY INFLAMMATION/ULCERATION

THE NATIONAL TOXICOLOGY PROGRAM HAS IDENTIFIED CHROMIUM AS A CARCINOGEN AND NICKEL AS A POSSIBLE CARCINOGEN.

EMERGENCY FIRST AID PROCEDURES:

IN THE EVENT OF OVEREXPOSURE, MOVE THE INDIVIDUAL TO FRESH AIR. SEEK MEDICAL ATTENTION PROMPTLY IF NECESSARY.

REACTIVITY:

STABLE
HAZARDOUS POLYMERIZATION WILL NOT OCCUR

SPILL OR LEAK PROCEDURES

NOT APPLICABLE TO STEEL IN THE SOLID STATE

RESPIRATORY PROTECTION:

NIOSH APPROVED DUST/FUME RESPIRATOR SHOULD BE USED TO AVOID EXCESSIVE INHALATION. THE SELECTION DEPENDS ON THE AMOUNT OF EXPOSURE.

VENTILATION:

ADEQUATE VENTILATION IS RECOMMENDED WHEN TORCH CUTTING, WELDING AND BURNING

GLOVES:

PROTECTIVE GLOVES SHOULD BE WORN

OTHER PROTECTIVE EQUIPMENT:

APPROPRIATE PROTECTIVE CLOTHING SHOULD BE WORN WHEN WELDING OR BURNING. SAFETY FOOTWEAR WHEN APPROPRIATE.

EYE PROTECTION:

SAFETY GLASSES OR GOGGLES SHOULD BE WORN WHEN GRINDING, WELDING OR BURNING

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800-STL-BARS

RE: CLEAN AIR ACT 1990 AMENDED
OZONE DEPLETING CHEMICALS --ODC's

DEAR VALUED CUSTOMER,

TURRET STEEL CORP. DOES NOT MANUFACTURE STEEL PRODUCTS.

We have been advised by our steel suppliers that no Class I or Class II Ozone Depleting Chemicals are used in the manufacture of steel products shipped to Turret Steel and in turn shipped to our customers.

Yours truly,

TURRET STEEL CORP.



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800-STL-BAR

Dear Customer:

In order to comply with the Occupational Safety and Health Administration (OSHA) regulation 29 CFR Part 1910.1200, we are enclosing the Material Safety Data Sheet (MSDS) for carbon and low alloy steel bars and billets as supplied by Turret Steel Corp

As a distributor of steel products produced by many steel manufacturers, we have combined the information into one form.

The MSDS is intended to be used for employee health and safety education and is not intended for specification purposes.

Also enclosed, find Turret Steel Corp.'s statement of compliance with the Clean Air Act 1990 Amended regarding Ozone Depleting Chemicals (ODC's).

Both the MSDS and the ODC compliance statement should be forwarded to the individual responsible for health and safety activities at your facilities.

Yours truly,

TURRET STEEL CORP.

A handwritten signature in dark ink, appearing to read "J. Peter Hutchings", is written over the printed name and title.

J. Peter Hutchings
Vice President