HotRolled

MATERIAL SAFETY DATA SHEET

MANUFACTURER'S NAME: MARION STEEL COMPANY

ADDRESS: 912 CHENEY AVENUE

MARION, OHIO 43302

PREPARED: 12/1/94

ISSUED: 1/1/97

INFORMATION AND EMERGENCY TELEPHONE NUMBER: (614) 383-4011

SECTION ! -- PRODUCT INFORMATION

PRODUCT NAME:

ASTM - A36, A615

PRODUCT TRADE NAME: Hot Rolled Carbon Steel

SECTION II -- HAZARDOUS INGREDIENTS

INGREDIENTS	(CAS. NUMBER)	PERCENT BY VOLUME	OCCUPATIONAL EXPOSURE LIMITS	
			TLV	PEL
Base Metal-Iron	NA	97 - 99%	10 mg/m ³	NA
Carbon	NA	.1090%	NA	NA
**Manganese	7439-96-5	10 - 1.50%	5 MG/M ³	NA
**Phosphorous	7723-14-0	.060% Max.	NA	NA
Sulfur	NA	.001060%	13 mg/m ³	NA
Silicon	NA	.35% Max.	NĂ	NA
Aluminum	NA	.001015%	NA	NA

^{**} DESIGNATES MATERIAL SUBJECT TO REPORTING REQUIREMENTS OF SARA TITLE III, SEC. 313. IF NONE DESIGNATED, THIS PRODUCT CONTAINS NO REPORTABLE CHEMICALS.

SECTION III -- PHYSICAL DATA

BOILING POINT: NA

VAPOR PRESSURE: NA VAPOR DENSITY: NA

APPEARANCE: Gray Metallic

ODOR: Odorless

SOLUBILITY IN WATER: NA

SPECIFIC GRAVITY: 7.6 - 7.8

PERCENT VOLATILE: NA

EVAPORATION RATE: NA

SECTION IV -- FIRE & EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED): NA

FLAMMABLE LIMITS NA

LEL -UEL -

NFPA FIRE RATING: NA

HEALTH -

FLAMMABILITY -

REACTIVITY -

EXTINGUISHING MEDIA:

NA

SPECIAL FIRE FIGHTING PROCEDURES:

NA

UNUSUAL FIRE AND EXPLOSION HAZARDS:

NA

HotRolled

SECTION V -- HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE:

NA

PERMISSIBLE EXPOSURE LIMIT:

NA

OUTES OF ENTRY:

NA

Steel products in natural state present to hazard. Other operations such as grinding, welding, burning, etc., may result in inhalation exposure limits in Section II.

EFFECTS OF OVER EXPOSURE:

Can cause irritation to eyes, nose and throat.

MEDICAL CONDITIONS GENERALLY

May aggravate chronic diseases or disorders of

the respiratory system.

EMERGENCY AND FIRST AID

AGGRAVATED BY EXPOSURE:

PROCEDURES:

Remove from excessive exposure levels unless

proper respiratory protection is wom. Seek medical

attention promptly if irritation continues.

CARCINOGENIC ASSESSMENT:

NA

SECTION VI -- REACTIVITY DATA

STABILITY:

Stable

INCOMPATIBILITY

Acids

(MATERIALS TO AVOID):

HAZARDOUS DECOMPOSITION

Fumes and/or gases produced from welding or

PRODUCTS: burning operations.

HAZARDOUS POLYMERIZATION:

Will not occur.

SECTION VII -- SPILL OR LEAK PROCEDURE

STEPS TO BE TAKEN IN CASE MATERIAL

Not applicable to steel in a solid state.

WASTE DISPOSAL METHOD:

IS RELEASED OR SPILLED:

Any excess or scrap metal is recycled.

HotRolled

SECTION VIII -- SPECIAL PROTECTION

RESPIRATORY PROTECTION (SPECIFY):

NIOSH approved fume or dust respirators.

VENTILATION:

Local Exhaust, Recommended when welding

or cutting.

Mechanical, Sufficient to keep below limits.

Special, None.

PROTECTIVE GLOVES:

Welder's protective gloves.

EYE PROTECTION:

Face Shield or goggles.

OTHER PROTECTIVE EQUIPMENT:

Fire retardant clothing when burning or welding.

SECTION IX -- SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN FOR

NA

OTHER PRECAUTIONS:

HANDLING AND STORAGE:

1) See American National Standard Safety in

Welding and Cutting.

2) For sign post, refer to the MSDS forms for

paint coatings.