

WILLIAMS

Steel and Supply Co., Inc.

Material Safety Data Sheet

COMPANY Williams Steel & Supply Co., Inc. 999 West Armour Avenue Milwaukee, WI 53221-0900	ISSUE DATE April 4, 1986	IDENTIFICATION Carbon & Alloy
PRODUCT NAME / TRADE NAME Carbon Steel — HR & CR Leaded Carbon	PHONE NUMBER 414 / 481-7100	
CHEMICAL NAME Steel	FORM Grating, Expanded Metal, Bars, Sheet, Plating, Tubing, Structural	

I. INGREDIENTS

NOTE: PRODUCTS UNDER NORMAL CONDITIONS DO NOT REPRESENT AN INHALATION, INGESTION OR CONTACT HEALTH HAZARD.

BASE METAL, ALLOYING ELEMENTS AND METALLIC COATINGS	% COMPOSITION BY WEIGHT (1)	ACGIH TLV (mg/m ³) (2)
Base Metal		
Iron	97-99	5 (As Iron Oxide)
Alloying Elements		
Manganese (Mn)	<2	5 (As Dust-Ceiling)
Carbon (C)	<2	None Established
Aluminum (Al)	<1	10
Phosphorus (P)	<1	None for Inorganic
Sulfur (S)	<1	5 (As SO ₂)
Silicon (Si)	<1	10 (Total Dust)
Vanadium (V)	<1	.05 (As Respirable Dust)
Columbian (Cb)	<1	None Established
Bismuth (Bi)	<1	None Established
Lead Carbon i.e. 10L42		
Lead (Pb)	<1	.05 (OSHA Lead Std.)

(1) % OF ALLOYING MATERIAL VARIES WITH GRADE OF MATERIAL.

(2) 1985-1986 ACGIH THRESHOLD LIMIT VALUE.

Note: The above listing is a summary of elements used in alloying steel. Various grades of steel will contain different combinations of these elements. Trace elements may also be present in minute amounts.

II. PHYSICAL DATA

MATERIAL IS (AT NORMAL CONDITIONS): <input type="checkbox"/> Liquid <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Gas <input type="checkbox"/> Other		APPEARANCE AND ODOR Gray-Black — Odorless
ACIDITY/ALKALINITY ph = NA	Approx. Melting Point 2750°F Boiling Point NA °F	VAPOR PRESSURE (mm Hg at 20°C) NA
Specific Gravity (H ₂ O = 1) — 7		Solubility in water (% by weight) — NA

III. PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION NIOSH approved dust/mist/fume respirator should be used during welding or burning if OSHA PEL or TLV is exceeded.	HANDS, ARMS, AND BODY Use appropriate protective clothing such as welders aprons & gloves when welding or burning. Check local codes.
EYES AND FACE Safety glasses should always be worn when grinding or cutting; face shields should be worn when welding or burning.	OTHER CLOTHING AND EQUIPMENT As required

IV. EMERGENCY MEDICAL PROCEDURES

Inhalation:	Remove to fresh air; if condition continues, consult physician.
Eye Contact:	Immediately flush well with running water to remove particulate; get medical attention.
Skin Contact:	If irritation develops, remove clothing and wash well with soap and water. If condition persists, seek medical attention.
Ingestion:	If significant amounts of metal are ingested, seek medical attention.