

MATERIAL SAFETY DATA SHEET

This form may be used to comply with OSHA's Hazard Communication Standard, 29 CFR 110.1200

IDENTITY - High Strength Low Alloy Painted Steel Castings

SECTION I - PRODUCT IDENTIFICATION

MANUFACTURERS NAME AND ADDRESS:

Hensley Industries, Inc.
P.O. Box 29779
2108 Joe Field Rd.

Dallas, TX 75229-0779 USA

Last Revision: January 2006

MSDS Updated By: Diana L Lundelius, CHMM
Environmental Manager

SYNONYMS: Steel Castings, Painted Castings

CHEMICAL FAMILY: Ferrous metal

HAZARD LABEL: None

MOLECULAR FORMULA: Fe (base metal of unpainted castings)

MOLECULAR WEIGHT: 55.85 gm/mole

NFPA RATINGS (0-4) Health: 0 Flammability: 0 Reactivity: 0

TELEPHONE NUMBERS:

Emergency: (972) 241-2321

Technical Information: (972) 406-6201

MSDS First Printed: January 16, 2006

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous ingredient information applies to the heavy metal content of both castings and paint

Hazardous Components (Specific Chemical Identity Common Name)

	CAS#	OSHA PEL	ACGIH TLV	OTHER LIMITS	WT PERCENT
Aluminum	7429-90-5	15.0 mg/M ³ 5.0 mg/M ³	10.0 mg/M ³ 5.0 mg/M ³	total respirable	< 0.1
Arsenic	7440-38-2	0.01 mg/M ³	0.01 mg/M ³		< 0.025
Barium	7440-39-3	0.5 mg/M ³	0.5 mg/M ³		< 0.05
Cadmium	7440-43-9	0.005 mg/M ³	0.002 mg/M ³	as fume	< 0.06
Cobalt	7440-48-4	0.1 mg/M ³	0.02 mg/M ³	as metal and fume	< 0.06
Copper	7440-50-8	0.1 mg/M ³	0.2 mg/M ³	as fume	< 0.1
Chromium	7440-47-3	1.0 mg/M ³	0.5 mg/M ³		< 1.3
Iron	7439-89-6	10.0 mg/M ³	5.0 mg/M ³		> 95.0
Lead	7439-92-1	0.05 mg/M ³	0.05 mg/M ³	inorganic	< 0.06
Manganese	7439-96-5	5.0 mg/M ³	0.2 mg/M ³	as fume	< 1.2
Mercury	7439-97-6	0.025 mg/M ³	0.1 mg/M ³	inorganic	< 0.06
Molybdenum	7439-98-7	15.0 mg/M ³	10.0 mg/M ³	as metal	< 0.5
Nickel	7440-02-0	1.0 mg/M ³	1.5 mg/M ³	as metal	< 1.1
Selenium	7782-49-2	0.2 mg/M ³	0.2 mg/M ³	as metal	< 0.06
Silver	7440-22-4	0.01 mg/M ³	0.1 mg/M ³	as metal	< 0.025
Vanadium	7440-62-2	0.1 mg/M ³	0.05 mg/M ³	as V ₂ O ₅ fume	< 0.1

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: 3000 - 3500 degrees F

Melting Point: 2800 degrees F

Physical State: solid

pH: N/A

Specific Gravity: 7.6-7.8 at 76.0 degrees F

Vapor Pressure: N/A

Vapor Density: N/A

Evaporation Rate: N/A

Solubility in Water: N/A

Percent Volatile: N/A

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Appearance: Solid, Silver-Gray in Color (unpainted), Yellow in Color (Painted), No Odor

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point: N/A Method Used: N/A
Explosive Limits: N/A LEL: N/A UEL: N/A
Extinguishing Media: N/A
Special Fire Fighting Procedures: N/A
Unusual Fire and Explosion Hazards: N/A

SECTION V - REACTIVITY DATA

Stability: Unstable [] Stable [x]
Conditions to Avoid (instability): N/A
Incompatibility (materials to avoid): N/A
Hazardous Polymerization: May Occur [] Will Not [x] Occur
Conditions to Avoid (for Hazardous Polymerization): N/A

Hazardous Decomposition or By-Products When Welding Painted Castings:

Potential exposure to hazards may occur when heavy metal fumes are released from a painted surface during welding, cutting, burning or brazing. Identified hazards in Section II are based on an estimated 1% surface area of a painted casting contacted by a single welding arc or flame, to determine the maximum potential heavy metal content volatilized during a welding operation within a 1 m³ welding work space at benchtop level.

Keep area well ventilated when welding, cutting, burning, or brazing. Avoid generation of airborne dusts and fumes. Welding fumes cannot be simply classified. The composition and quantity are dependent upon the metal being welded, the process, procedures and type of electrodes used. Other conditions which also influence the composition and quantity of the fumes and gases to which workers may be exposed include: coatings on the metal being welded, number of welds and volume of work area,