

# WELD MOLD COMPANY

## Stainless Steel Tig and Mig

1	PRODUCT AND COMPANY IDENTIFICATION
Product Identifier:	Stainless Steel Tig and Mig
Common Name:	305, 308, 308L, 309, 309L, 310, 312, 316, 316L, 317, 317L, 330, 3320LR, 347, 409-Cb, 410, 410NiMo, 420, 430
SDS Number: Revision Date: Version: Product Use: Supplier Details:	630 09 5/29/2015 1 Welding WELD MOLD COMPANY 750 Rickett Road Brighton, MI 48116
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## **HAZARDS IDENTIFICATION**

### Classification of the substance or mixture

#### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS):

Health, Skin corrosion/irritation, 1

Health, Specific target organ toxicity - Single exposure, 3

Health, Carcinogenicity, 1

2

Health, Specific target organ toxicity - Repeated exposure, 2

### GHS Label elements, including precautionary statements

#### **GHS Signal Word: DANGER**

#### **GHS Hazard Pictograms:**



#### **GHS Hazard Statements:**

- H314 Causes severe skin burns and eye damage
- H335 May cause respiratory irritation
- H350 May cause cancer

H373 - May cause damage to organs through prolonged or repeated exposure CGA-HG11 - SYMPTOMS MAY BE DELAYED.

#### **GHS Precautionary Statements:**

#### P232 - Protect from moisture.

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.

P271 - Use only outdoors or in a well-ventilated area.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

CGA-PG27 - Read and follow the Safety Data Sheet (SOS) before use.

# Hazards not otherwise classified (HNOC) or not covered by GHS

Route of Entry:	Eyes; Skin; Inhalation
Target Organs:	Throat; Nose, Respiratory system

Inhalation:	Short term overexposure to welding fumes may result in discomfort such as: dizziness, nausea, or dryness or irritation of the nose, throat, lungs, and/or eyes.
	ACUTE EFFECTS: Irritating to the nose, throat and respiratory tract.
	SUBCHRONIC/CHRONIC TOXICITY CHRONIC: Chronic overexposer to welding fumes can result in: Chronic respiratory problems, iron build-up in the lungs, bone erosion, reduced pulmonary functions and nervous disorders.
Skin Contact:	The bright light produced by the arc can burn skin and eyes
Eye Contact:	Fumes may be moderately irritating to the eyes

## COMPOSITION/INFORMATION ON INGREDIENTS

### Ingredients:

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Cas#	%	Chemical Name
7439-96-5 7440-21-3 7440-02-0 7439-98-7 7440-50-8 7440-50-8 7440-53-1 7439-89-6 7440-44-0 7723-14-0 7704-34-9	$\begin{array}{c} 0.01-2.5\%\\ 0-1\%\\ 10.5-32\%\\ 0-38\%\\ 0-4\%\\ 0-4\%\\ 0-1\%\\ 17.03-89.489\%\\ 0.001-0.4\%\\ 0-0.04\%\\ 0-0.03\%\end{array}$	Manganese Silicon Chromium Nickel, metallic and alloys Molybdenum: soluble and insoluble compounds Copper Niobium Iron Carbon Phosphorus Sulfur

### **EXPOSURE LIMITS**

CHEMICAL NAME	OSHA PEL	ACGIH TLV
Manganese compounds	5 mg/m3	1 mg/m3
Silicon	10 mg/m3* = Total dust, <=Respirable fraction	10 mg/m3 Total Dust
Chromium	1 mg/m3	0.5 mg/m3
Nickel Metal	1 mg/m3	1.5 mg/m3
Soluble compounds, as Mo	15 mg/m3	10 mg/m3
Copper	1 mg/m3	1 mg/m3
Niobium	NL	NL
Iron	10 mg/m3 TWA (Total Dust)	10 mg/m3 TWA (particles)
Carbon	NL	NL
Phosphorus	NL=Not Listed	.02
Sulfur	NL=Not Listed	NL

# 4 FIRST AID MEASURES

Inhalation:

Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention. Non-irritating.

Welding consumables are not flammable, however the welding arc and sparks will ignite other combustible materials. Do not weld in the presence of combustible materials.

# 6 ACCIDENTAL RELEASE MEASURES

GENERAL PROCEDURES: Prevent waste from contaminating the surrounding environment. Discard any product, residue, disposable container or liner in an environmentally acceptable manner, in full compliance with federal, provincial, and local regulations.

7 HANDLING AND STORAGE	7	HANDLING AND STORAGE
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Storage Requirements:

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Store in a dry area.

8	EXPOSURE CONTROLS/PERSONAL PROTECTION
Personal Protective Equipment:	HMIS PP, D   Face Shield and Eye Protection, Gloves, Apron

### PERSONAL PROTECTION

EYES AND FACE: S39 - Wear eye/face protection

RESPIRATORY: Use sufficient ventilation, local exhaust at the arc, or both to keep the fumes and gases below TLV's in the workers breathing zone. In confined spaces use respirable fume respirator or air-supplied respirator.

PROTECTIVE CLOTHING: The intensity of the arc and the sparks emitted from it can cause severe burns. All skin should be covered.

9	PHYSICAL AND CHEMICAL PROPERTIES
Physical State:	The welding consumable discussed herein is composed of a wire strip or solid wire rod without a flux based core or outer coating.

10	STABILITY AND REACTIVITY
Hazardous Decomposi	tion: The composition and quantity of welding fumes generated are dependent upon several variables including the base material, base material contaminants and/or coatings (paint, galvanized, etc.) welding process utilized. Other factors that will effect the quantity of fumes available for inhalation are the number of welding operators in a designated work area, the quality of ventilation, the position of the operator with respect to the fume plume, as well as the presence of contaminants in the atmosphere from other manufacturing operations. Reasonably expected fume constituents of this product would

include: complex oxides of iron, manganese, silicon, chromium, nickel, molybdenum, calcium, magnesium, and titanium.

COMMENTS: No hazard exists until this product is used in welding.

11 TOXICOLOGICAL INFORMATION

REPRODUCTIVE TOXIN: Not known

MUTAGENICITY: Not known

12 ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: No data available

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# DISPOSAL CONSIDERATIONS

Dispose of in accordance with federal, state and local regulations.

SPECIAL SHIPPING NOTES: Special shipping considerations for this product are limited to those necessary to prevent damaging the product.

# 15 REGULATORY INFORMATION

Component (CAS#) [%] - CODES

Manganese (7439-96-5) [0.01-2.5%] MASS, NJHS, OSHAWAC, PA, SARA313, TSCA, TXAIR

Silicon (7440-21-3) [0-1%] MASS, OSHAWAC, PA, TSCA, TXAIR

RQ(5000LBS), Chromium (7440-47-3) [10.5-32%] CERCLA, EPCRAWPC, HWRCRA, MASS, NJHS, NRC, OSHAWAC, PA, PRIPOL, SARA313, TOXICPOL, TSCA, TXAIR

RQ(100LBS), Nickel, metallic and alloys (7440-02-0) [0-38%] CERCLA, EPCRAWPC, MASS, NJHS, NRC, OSHAWAC, PA, PRIPOL, SARA313, TOXICPOL, TSCA

Molybdenum: soluble and insoluble compounds (7439-98-7) [0-4%] MASS, OSHAWAC, PA, TSCA, TXAIR

RQ(5000LBS), Copper (7440-50-8) [0-4%] CERCLA, EPCRAWPC, MASS, NJHS, OSHAWAC, PA, PRIPOL, SARA313, TOXICPOL, TSCA, TXAIR

Niobium (7440-03-1) [0-1%] TSCA

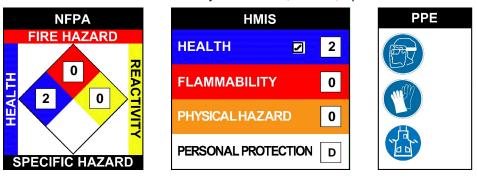
Iron (7439-89-6) [17.03-89.489%] TSCA

Regulatory CODE Descriptions

RQ = Reportable Quantity MASS = MA Massachusetts Hazardous Substances List NJHS = NJ Right-to-Know Hazardous Substances OSHAWAC = OSHA Workplace Air Contaminants PA = PA Right-To-Know List of Hazardous Substances SARA313 = SARA 313 Title III Toxic Chemicals TSCA = Toxic Substances Control Act TXAIR = TX Air Contaminants with Health Effects Screening Level CERCLA = Superfund clean up substance EPCRAWPC = EPCRA Water Priority Chemicals HWRCRA = RCRA Hazardous Wastes NRC = Nationally Recognized Carcinogens PRIPOL = Clean Water Act Priority Pollutants TOXICPOL = Clean Water Act Toxic Pollutants

### **OTHER INFORMATION**

NFPA: Health = 2, Fire = 0, Reactivity = 0, Specific Hazard = n/a HMIS III: Health = 2(Chronic), Fire = 0, Physical Hazard = 0 HMIS PPE: D - Face Shield and Eye Protection, Gloves, Apron



**REGULATORY IONFORMATION:** 

#### UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

313 REPORTABLE INGREDIENTS: This product contains some or all of the following reportable ingredients; Copper, Chromium, Manganese and Nickel TSCA STATUS: All components of this product are listed on or exempt from the TSCA

inventory. "WARNING: This product contains the following chemical(s) known to the state of California to cause cancer: Nickel (metallic) CAS# 7440-02-0"