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# **Cobalt Base Tig & Electrode**

### PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier:** Cobalt Base Tig & Electrode Common Name: 601, 606, 612, 621 SDS Number: 27 **Revision Date:** 5/29/2015 Version: 2 **Product Use:** Welding WELD MOLD COMPANY Supplier Details: 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

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
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. ACCUTE EFFECTS: Irritating to the nose, throat and respiratory tract. SUBCHRONIC/CHRONIC TOXICITY CHRONIC: Chronic overexposure 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

Ingredients:

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Cas#	%	Chemical Name
7440-44-0	.15-3%	Carbon
7439-96-5	0-2%	Manganese compounds and fumes (as Mn)
7440-47-3	25-33%	Chromium
7440-02-0	0-4%	Nickel, metallic and alloys
7439-98-7	0-6.5%	Molybdenum: soluble and insoluble compounds
7440-33-7	0.05-14%	Tungsten
7439-89-6	0-5%	Iron
7440-48-4	32.5-74.8%	Cobalt
7440-21-3	0-2%	Silicon

**COMPOSITION/INFORMATION ON INGREDIENTS** 

CHEMICAL NAME	OSHA PEL	ACGIH TLV
Industrial Carbon	15 mg/m3	10 mg/m3
Manganese compounds	5 mg/m3	1 mg/m3
Chromium	1 mg/m3	0.5 mg/m3
Nickel Metal	1 mg/m3	1.5 mg/m3
Silicon	10 mg/m3	10 mg/m3
Soluble compounds, as Mo	15 mg/m3	10 mg/m3
Tungsten	5 mg/m3 TWA, 10mg/m3 STEL	5 mg/m3 TWA, 10 mg/m3 STEL (inhalable)
Iron	10 mg/m3 TWA (Total Dust)	10 mg/m3 TWA (particles)
Cobalt	.01 mg/m3 TWA	.02 mg/m3 TWA

**EXPOSURE LIMITS** 

# 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.

### FIRE FIGHTING MEASURES

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.

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# **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

Storage Requirements:

Store in a dry area.

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## EXPOSURE CONTROLS/PERSONAL PROTECTION

### 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 with a flux based core or outer coating.

10	STABILITY AND REACTIVITY	
Hazardous Decompo	sition:	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.

## 11 TOXICOLOGICAL INFORMATION

REPRODUCTIVE TOXIN: Not known MUTAGENICITY: Not known

## 12 ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: No data available

# 13 DISPOSAL CONSIDERATIONS

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

# 14 TRANSPORT INFORMATION

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

Component (CAS#) [%] - CODES

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Carbon (7440-44-0) [.15-3%] TSCA

Manganese compounds and fumes (as Mn) (7439-96-5) [0-2%] MASS, NJHS, OSHAWAC, PA, SARA313, TSCA, TXAIR

RQ(5000LBS), Chromium (7440-47-3) [25-33%] CERCLA, EPCRAWPC, HWRCRA, MASS, NJHS, NRC, OSHAWAC, PA, PRIPOL, SARA313, TOXICPOL, TSCA, TXAIR

RQ(100LBS), Nickel, metallic and alloys (7440-02-0) [0-4%] CERCLA, EPCRAWPC, MASS, NJHS, NRC, OSHAWAC, PA, PRIPOL, SARA313, TOXICPOL, TSCA

Molybdenum: soluble and insoluble compounds (7439-98-7) [0-6.5%] MASS, OSHAWAC, PA, TSCA, TXAIR

Tungsten (7440-33-7) [0.05-14%] MASS, OSHAWAC, PA, TSCA, TXAIR

Iron (7439-89-6) [0-5%] TSCA

Cobalt (7440-48-4) [32.5-74.8%] MASS, NJHS, OSHAWAC, PA, PROP65, SARA313, TSCA, TXAIR

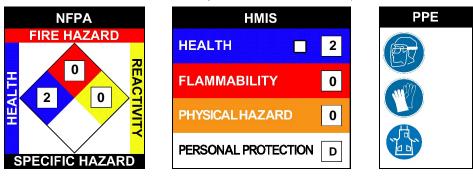
Silicon (7440-21-3) [0-2%] MASS, OSHAWAC, PA, TSCA, TXAIR

Regulatory CODE Descriptions

RQ = Reportable QuantityTSCA = Toxic Substances Control Act 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 = ŠARA 313 Title III Toxic Chemicals 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 PROP65 = CA Prop 65

# OTHER INFORMATION

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



REGULATORY INFORMATION

UNITED STATES

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

SDS Number: 27