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Mild Steel Electrodes

PRODUCT AND COMPANY IDENTIFICATION 1 **Product Identifier:** Mild Steel Electrodes Common Name: 200, 201, 202, 204, 205, 210, 215, 225, 6012, 6020 SDS Number: 06 **Revision Date:** 5/28/2015 Version: 3 **Product Use:** Welding WELD MOLD COMPANY **Supplier Details:** 750 Rickett Road Brighton, MI 48116 Emergency: 810-229-9521 Contact: Kelley Henrikson Phone: 810-229-9521 810-229-9580 Fax: Email: khenrikson@weldmold.com

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

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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

3	COMPOSITION/INFORMATION ON INGREDIENTS
Eye Contact:	Fumes may be moderately irritating to the eyes
Skin Contact:	The bright light produced by the arc can burn skin and eyes
	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.
	ACUTE EFFECTS: Irritating to the nose, throat and respiratory tract.
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.

COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

Cas#	%	Chemical Name
$\begin{array}{c}$	$\begin{array}{c} 0.4-2\%\\ 0.5-0.7\%\\ 0.5-2\%\\ 0.25-0.8\%\\ 12-30\%\\ 5-10\%\\ 1-12\%\\ 0.4-12\%\\ 4-15\%\\ 2-12\%\\ 95-99.4\%\end{array}$	Manganese Chromium Nickel, metallic and alloys Molybdenum: soluble and insoluble compounds Calcium carbonate (limestone) Calcium fluoride (CaF2) Titanium dioxide Cellulose, carboxymethyl ether, sodium salt Silicic acid, potassium salt Silicic acid, sodium salt Iron

EXPOSURE LIMITS

CHEMICAL NAME	OSHA PEL	ACGIH TLV
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
Soluble compounds, as Mo	15 mg/m3	10 mg/m3
Calcium Carbonate	15 mg/m3	10 mg/m3
Calcium Fluoride	2.5 mg/m3 As F	2.5 mg/m3
Titanium dioxide	10 mg/m3 NL = Not Listed	10 mg/m3
Cellulose	10 mg/m3	10 mg/m3
Silic acid, sodium salt	NL	NL
Potassium Silicate	15 mg/m3 TWA	5 mg/m3 TWA
Iron	10 mg/m3 TWA (Total Dust)	10 mg/m3 TWA (particles)

FIRST AID MEASURES

Inhalation:

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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.

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:

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Store in a dry area.

8	EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal Protective HMIS PP, D | Face Shield and Eye Protection, Gloves, Apron Equipment:

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 or 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.

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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) [0.4-2%] MASS, NJHS, OSHAWAC, PA, SARA313, TSCA, TXAIR

RQ(5000LBS), Chromium (7440-47-3) [0.5-0.7%] CERCLA, EPCRAWPC, HWRCRA, MASS, NJHS, NRC, OSHAWAC, PA, PRIPOL, SARA313, TOXICPOL, TSCA, TXAIR

RQ(100LBS), Nickel, metallic and alloys (7440-02-0) [0.5-2%] CERCLA, EPCRAWPC, MASS, NJHS, NRC, OSHAWAC, PA, PRIPOL, SARA313, TOXICPOL, TSCA

Calcium carbonate (limestone) (1317-65-3) [12-30%] MASS, OSHAWAC, PA, TSCA, TXAIR

Calcium fluoride (CaF2) (7789-75-5) [5-10%] TSCA

Titanium dioxide (13463-67-7) [1-12%] MASS, OSHAWAC, PA, TSCA, TXAIR

Cellulose, carboxymethyl ether, sodium salt (9004-32-4) [0.4-12%] TSCA

Silicic acid, potassium salt (1312-76-1) [4-15%] TSCA

Silicic acid, sodium salt (1344-09-8) [2-12%] TSCA

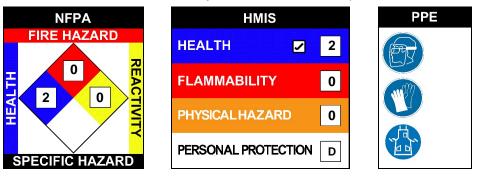
Iron (7439-89-6) [95-99.4%] TSCA

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"