

SDS

GHS Safety Data Sheet

WELD MOLD COMPANY

Nickel Based Hard Facing Mig & Tig

PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: Nickel Based Hard Facing Mig & Tig **Common Name:** Nickel Based Hard Facing Mig & Tig 620, 641, 670, 672, 673fcg, 676

 SDS Number:
 30

 Revision Date:
 5/29/2015

 Version:
 2

 Product Use:
 Welding

Supplier Details: WELD MOLD COMPANY

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2 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

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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

3 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

Cas#	%	Chemical Name
7440-44-0 7439-96-5 7440-21-3 7440-47-3 7439-98-7 7440-33-7 7440-48-4 7439-89-6 1314-62-1 7440-02-0 7440-50-8 7440-42-8	0.02-1.15% 0-1% 0-5.5% 0.01-23% 0-30% 0-4.5% 0-2.5% 3-20% 0-0.6% 40.75-83.28% 0-0.5% 0-4.5%	Carbon Manganese compounds and fumes (as Mn) Silicon Chromium Molybdenum: soluble and insoluble compounds Tungsten Cobalt, metal, dust and fume (as Co) Iron Vanadium, pentoxide dust and fume Nickel, metallic and alloys Copper Boron
7 1 10 12 0	0 11.3/0	501 011

EXPOSURE LIMITS

CHEMICAL NAME		OSHA PEL		ACGIH TLV
Carbon		NL		NL
Manganese compounds		5 mg/m3		1 mg/m3
Silicon	10 mg/m3*	= Total dust, <=Respirable fracti	on	10 mg/m3 Total Dust
Chromium		1 mg/m3		0.5 mg/m3
Soluble compounds, as Mo		15 mg/m3		10 mg/m3
Tungsten	5 mg/m3 T	WA, 10mg/m3 STEL	5 mg/n	n3 TWA, 10 mg/m3 STEL (inhalable)
Cobalt		.01 mg/m3 TWA		.02 mg/m3 TWA
Iron	10 mg/m3 ⁻	TWA (Total Dust)	10 mg/	/m3 TWA (particles)
Vanadium		0.05 mg/m3 TWA		1 mg/m3 TWA
Nickel Metal		1 mg/m3		1.5 mg/m3
Copper		1 mg/m3		1 mg/m3
Boron	15 mg/	/m3 * NL = Not Listed		10 mg/m3

FIRST AID MEASURES

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

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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.

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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

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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.

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STABILITY AND REACTIVITY

Hazardous Decomposition:

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

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ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: No data available

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DISPOSAL CONSIDERATIONS

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

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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

Carbon (7440-44-0) [0.02-1.15%] TSCA

Manganese compounds and fumes (as Mn) (7439-96-5) [0-1%] MASS, NJHS, OSHAWAC, PA, SARA313, TSCA, TXAIR

Silicon (7440-21-3) [0-5.5%] MASS, OSHAWAC, PA, TSCA, TXAIR

RQ(5000LBS), Chromium (7440-47-3) [0.01-23%] CERCLA, EPCRAWPC, HWRCRA, MASS, NJHS, NRC, OSHAWAC, PA, PRIPOL, SARA313, TOXICPOL, TSCA, TXAIR

Molybdenum: soluble and insoluble compounds (7439-98-7) [0-30%] MASS, OSHAWAC, PA, TSCA, TXAIR

Tungsten (7440-33-7) [0-4.5%] MASS, OSHAWAC, PA, TSCA, TXAIR

Cobalt, metal, dust and fume (as Co) (7440-48-4) [0-2.5%] MASS, NJHS, OSHAWAC, PA, PROP65, SARA313, TSCA, TXAIR

Iron (7439-89-6) [3-20%] TSCA

RQ(100LBS), Nickel, metallic and alloys (7440-02-0) [40.75-83.28%] CERCLA, EPCRAWPC, MASS, NJHS, NRC, OSHAWAC, PA, PRIPOL, SARA313, TOXICPOL, TSCA

Boron (7440-42-8) [0-4.5%] TSCA

Regulatory CODE Descriptions

RQ = Reportable Quantity

TSCA = 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 = SARA 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

16 OTHER INFORMATION

NFPA: Health = 2, Fire = 0, Reactivity = 0, Specific Hazard = n/a

HMIS III: Health = 2, Fire = 0, Physical Hazard = 0

HMIS PPE: D - Face Shield and Eye Protection, Gloves, Apron







REGULATORY INFORMATION

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 (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