



Heat Treatable Tool & Die Tig and Mig Wire

1 PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: Heat Treatable Tool & Die Tig and Mig Wire
Common Name: 888, 919 MCT, 920, 922, 923, 925, 927, 935, 937, 938 MCT, 943, 950, 954, 956, 958, 959, 960, 962, 966, 966 MCT, 988, 9210, 9211, 9770, 9771, P55
SDS Number: 38
Revision Date: 5/28/2015
Version: 2
Product Use: Welding
Supplier Details: WELD MOLD COMPANY
 750 Rickett Road
 Brighton, MI 48116

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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

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
7782-42-5	0-0.35%	Carbon aka Graphite
7439-96-5	0.05-1.6%	Manganese compounds and fumes (as Mn)
7440-21-3	0.05-1.6%	Silicon
7440-47-3	0.05-13.5%	Chromium
7440-02-0	0.05-19%	Nickel, metallic and alloys
7439-98-7	0.005-5.5%	Molybdenum: soluble and insoluble compounds
7440-33-7	0.005-10%	Tungsten Metal Powder
1314-62-1	0.005-2.2%	Vanadium, pentoxide dust and fume
7439-89-6	46.1-99.785%	Iron
7440-32-6	0-0.15%	Titanium

EXPOSURE LIMITS

<u>CHEMICAL NAME</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Carbon aka Graphite	15 mg/m3 TWA	10 mg/m3
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
Tungsten	5 mg/m3 TWA, 10mg/m3 STEL	5 mg/m3 TWA, 10 mg/m3 STEL (inhalable)
Vanadium	0.05 mg/m3 TWA	1 mg/m3 TWA
Iron	10 mg/m3 TWA (Total Dust)	10 mg/m3 TWA (particles)
Titanium	10 mg/m3 NL = Not Listed	10 mg/m3

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.

5 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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TRANSPORT INFORMATION

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

Component (CAS#) [%] - CODES

Manganese compounds and fumes (as Mn) (7439-96-5) [0.05-1.6%] MASS, NJHS, OSHAWAC, PA, SARA313, TSCA, TXAIR

Silicon (7440-21-3) [0.05-1.6%] MASS, OSHAWAC, PA, TSCA, TXAIR

RQ(5000LBS), Chromium (7440-47-3) [0.05-13.5%] CERCLA, EPCRAWPC, HWRCRA, MASS, NJHS, NRC, OSHAWAC, PA, PRIPOL, SARA313, TOXICPOL, TSCA, TXAIR

RQ(100LBS), Nickel, metallic and alloys (7440-02-0) [0.05-19%] CERCLA, EPCRAWPC, MASS, NJHS, NRC, OSHAWAC, PA, PRIPOL, SARA313, TOXICPOL, TSCA

Molybdenum: soluble and insoluble compounds (7439-98-7) [0.005-5.5%] MASS, OSHAWAC, PA, TSCA, TXAIR

Tungsten Metal Powder (7440-33-7) [0.005-10%] MASS, OSHAWAC, PA, TSCA, TXAIR

RQ(1000LBS), Vanadium, pentoxide dust and fume (1314-62-1) [0.005-2.2%] ACUTERCRA, CERCLA, CSWHS, EHS302, MASS, NJHS, OSHAWAC, PA, TSCA, TXAIR, TXHWL

Iron (7439-89-6) [46.1-99.785%] TSCA

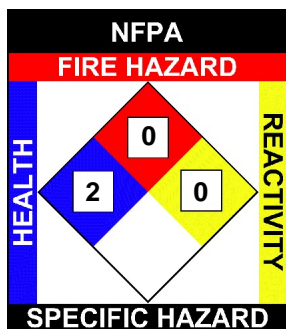
Regulatory CODE Descriptions

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
 ACUTERCRA = RCRA Acute Hazardous Wastes (P-List)
 CSWHS = Clean water Act Hazardous substances
 EHS302 = Extremely Hazardous Substance
 TXHWL = TX Hazardous Waste List

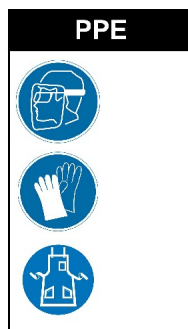
NFPA: Health = 2, Fire = 0, Reactivity = 0, Specific Hazard = n/a

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

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



HMIS	
HEALTH	2
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	D



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