

SDS

GHS Safety Data Sheet

WELD MOLD COMPANY

Special Maintenance Iron Base Flux Cored Wires

PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: Special Maintenance Iron Base Flux Cored Wires

Common Name: 705, 730, 736MCG, 744, 750, 750.T-1,

SDS Number: 14

Revision Date: 5/29/2015

Version: 2

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Product Use: Welding

Supplier Details: WELD MOLD COMPANY

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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

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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

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COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

Cas#	%	Chemical Name
7439-89-6 7440-47-3 7440-02-0 7439-96-5 7440-44-0 7439-98-7 7440-21-3 7789-75-5 13463-67-7 12030-97-6 7429-90-5 7440-03-1 7787-32-8 7439-95-4 16871-90-2	40-86% 0-5.5% 7.5-60% 0.4-12% 0.034-3% 0-1.1% 0.25-4% 0-2% 0-2% 0-0.4% 0-3% 0-0.4% 0-3% 0-0.2% 0-0.2%	Iron Chromium Nickel, metallic and alloys Manganese compounds and fumes (as Mn) Industrial Carbon Molybdenum: soluble and insoluble compounds Silicon Calcium fluoride (CaF2) Titanium dioxide Titanate (Ti032-), dipotassium Aluminum Niobium Barium fluoride (BaF2) Magnesium Potassium silico fluoride

EXPOSURE LIMITS

CHEMICAL NAME	OSHA PEL	ACGIH TLV
Iron	10 mg/m3 TWA (Total Dust)	10 mg/m3 TWA (particles)
Chromium	1 mg/m3	0.5 mg/m3
Nickel Metal	1 mg/m3	1.5 mg/m3
Manganese compounds	5 mg/m3	1 mg/m3
Industrial Carbon	NL	NL
Soluble compounds, as Mo	15 mg/m3	10 mg/m3
Silicon	10 mg/m3* = Total dust, <=Respirable fraction	on 10 mg/m3 Total Dust
Calcium Fluoride	2.5 mg/m3 As F	2.5 mg/m3
Titanium dioxide	10 mg/m3 NL = Not Listed	10 mg/m3
Titanate, dipotassium	2.5 mg/m3 (Dust) TWA	2.5 mg/m3 TWA
Aluminum	15 mg/m3	10 mg/m3 NL
Niobium	NL	NL
Barium fluoride	0.5 mg/m3	0.5 mg/m3
Magnesium	15 mg/m3	10 mg/m3 (Fume)
Potassium silico fluoride	2.5 mg/m3 TWA	2.5 mg/m3 TWA

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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.

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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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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.

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REGULATORY INFORMATION

Component (CAS#) [%] - CODES

Iron (7439-89-6) [40-86%] TSCA

RQ(5000LBS), Chromium (7440-47-3) [0-5.5%] CERCLA, EPCRAWPC, HWRCRA, MASS, NJHS, NRC, OSHAWAC, PA, PRIPOL, SARA313, TOXICPOL, TSCA, TXAIR

RQ(100LBS), Nickel, metallic and alloys (7440-02-0) [7.5-60%] CERCLA, EPCRAWPC, MASS, NJHS, NRC, OSHAWAC, PA, PRIPOL, SARA313, TOXICPOL, TSCA

Manganese compounds and fumes (as Mn) (7439-96-5) [0.4-12%] MASS, NJHS, OSHAWAC, PA, SARA313, TSCA, TXAIR

Industrial Carbon (7440-44-0) [0.034-3%] TSCA

Molybdenum: soluble and insoluble compounds (7439-98-7) [0-1.1%] MASS, OSHAWAC, PA, TSCA, TXAIR

Silicon (7440-21-3) [0.25-4%] MASS, OSHAWAC, PA, TSCA, TXAIR

Calcium fluoride (CaF2) (7789-75-5) [0-2%] TSCA

Titanium dioxide (13463-67-7) [0-2%] MASS, OSHAWAC, PA, TSCA, TXAIR

Aluminum (7429-90-5) [0-3%] EPCRAWPC, MASS, NJHS, OSHAWAC, PA, SARA313, TSCA, TXAIR

Niobium (7440-03-1) [0-2%] TSCA

Magnesium (7439-95-4) [0.3-1%] MASS, PA, TSCA

Regulatory CODE Descriptions

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

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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