



Aluminum Tig Wire

1 PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: Aluminum Tig Wire
Common Name: 4043, 5356
SDS Number: 18
Revision Date: 5/29/2015
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
7440-21-3	0-6%	Silicon
7439-96-5	0-0.2%	Manganese compounds and fumes (as Mn)
1309-48-4	0-5.5%	Magnesium oxide (MgO)
7429-90-5	91.7-100%	Aluminum
7440-66-6	0-0.1%	Zinc
7440-32-6	0-0.2%	Titanium
7439-89-6	0-0.8%	Iron
7440-50-8	0-0.3%	Copper
7440-47-3	0-0.2%	Chromium

EXPOSURE LIMITS

<u>CHEMICAL NAME</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Silicon	10 mg/m3* = total dust, < Respirable fraction	10 mg/m3 Total Dust
Manganese compounds	5 mg/m3	1 mg/m3
Magnesium Oxide	15 mg/m3	10 mg/m3 (Fume)
Aluminum	15 mg/m3	10 mg/m3
Zinc	NL	NL
Titanium	10 mg/m3 NL = Not Listed	10 mg/m3
Iron	10 mg/m3 TWA (Total Dust)	10 mg/m3 TWA (particles)
Copper	1 mg/m3	1 mg/m3
Chromium	1 mg/m3	0.5 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.

6**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.

8**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 without a flux based core or outer coating.

10**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.

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

Silicon (7440-21-3) [0-6%] MASS, OSHAWAC, PA, TSCA, TXAIR

Magnesium oxide (MgO) (1309-48-4) [0-5.5%] MASS, OSHAWAC, PA, TSCA, TXAIR

Aluminum (7429-90-5) [91.7-100%] EPCRAWPC, MASS, NJHS, OSHAWAC, PA, SARA313, TSCA, TXAIR

RQ(5000LBS), Chromium (7440-47-3) [0-0.2%] CERCLA, EPCRAWPC, HWCRCRA, MASS, NJHS, NRC, OSHAWAC, PA, PRIPOL, SARA313, TOXICPOL, TSCA, TXAIR

Regulatory CODE Descriptions

RQ = Reportable Quantity

MASS = MA Massachusetts Hazardous Substances List

OSHA = OSHA Workplace Air Contaminants

PA = PA Right-To-Know List of Hazardous Substances

TSCA = Toxic Substances Control Act

TXAIR = TX Air Contaminants with Health Effects Screening Level

EPCRAWPC = EPCRA Water Priority Chemicals

NJHS = NJ Right-to-Know Hazardous Substances

SARA313 = SARA 313 Title III Toxic Chemicals

CERCLA = Superfund clean up substance

HWCRCRA = RCRA Hazardous Wastes

NRC = Nationally Recognized Carcinogens

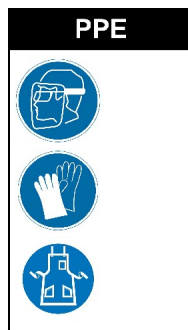
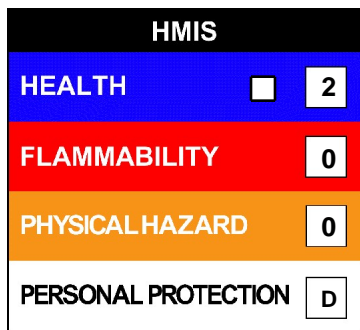
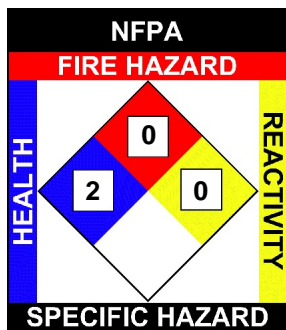
PRIPOL = Clean Water Act Priority Pollutants

TOXICPOL = Clean Water Act Toxic Pollutants

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