



Brazing Rods

1 PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: Brazing Rods
Common Name: 26-C, 42-C
SDS Number: 40
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
7429-90-5	0-0.01%	Aluminum
7440-21-3	0.04-0.25%	Silicon
7784-18-1	4-6%	Aluminum fluoride (AlF3)
7789-24-4	4-6%	Lithium fluoride (LiF)
7783-40-6	4-6%	Magnesium fluoride (MgF2)
7447-40-7	12-19%	Potassium chloride (KCl)
7789-23-3	4-6%	Potassium fluoride
7647-14-5	9-13%	Sodium Chloride
7439-89-6	0-1.2%	Iron
7440-50-8	46-60%	Copper
7440-66-6	40-45%	Zinc (fume or dust)
7440-31-5	0-1.1%	Tin
7439-96-5	0-0.5%	Manganese compounds and fumes (as Mn)
7440-02-0	0-11%	Nickel, metallic and alloys
7440-22-4	0.7%	Silver

EXPOSURE LIMITS

<u>CHEMICAL NAME</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Aluminum	15 mg/m3	10 mg/m3 NL
Silicon	10 mg/m3* = Total dust, <=Respirable fraction	10 mg/m3 Total Dust
Aluminum fluoride	10 mg/m3	10 mg/m3
Lithium fluoride	10 mg/m3 TWA	3 mg/m3 TWA
Magnesium fluoride	15 mg/m3	10 mg/m3 (Fume)
Potassium Chloride	15 mg/m3 TWA	5 mg/m3 TWA
Potassium Fluoride	NL	NL
Sodium chloride	NL * NL = Not Listed	NL
Iron	10 mg/m3 TWA (Total Dust)	10 mg/m3 TWA (particles)
Copper	1 mg/m3	1 mg/m3
Zinc (Fumes, Dust)	NL	NL
Tin	2 mg/m3 TWA	2 mg/m3 TWA
Manganese compounds	5 mg/m3	1 mg/m3
Nickel Metal	1 mg/m3	1.5 mg/m3
Silver	0.01 mg/m3 TWA	0.1 mg/m3 TWA

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 with or 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

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.

Component (CAS#) [%] - CODES

Aluminum fluoride (AlF₃) (7784-18-1) [4-6%] TSCA

Lithium fluoride (LiF) (7789-24-4) [4-6%] TSCA

Magnesium fluoride (MgF₂) (7783-40-6) [4-6%] TSCA

Potassium chloride (KCl) (7447-40-7) [12-19%] TSCA

Potassium fluoride (7789-23-3) [4-6%] TSCA

Sodium Chloride (7647-14-5) [9-13%] TSCA

Iron (7439-89-6) [0-1.2%] TSCA

RQ(5000LBS), Copper (7440-50-8) [46-60%] CERCLA, EPCRAWPC, MASS, NJHS, OSHAWAC, PA, PRIPOL, SARA313, TOXICPOL, TSCA, TXAIR

RQ(1000LBS), Zinc (fume or dust) (7440-66-6) [40-45%] CERCLA, EPCRAWPC, MASS, NJHS, PA, PRIPOL, SARA313, TOXICPOL, TSCA

Tin (7440-31-5) [0-1.1%] MASS, OSHAWAC, PA, TSCA, TXAIR

RQ(100LBS), Nickel, metallic and alloys (7440-02-0) [0-11%] CERCLA, EPCRAWPC, MASS, NJHS, NRC, OSHAWAC, PA, PRIPOL, SARA313, TOXICPOL, TSCA

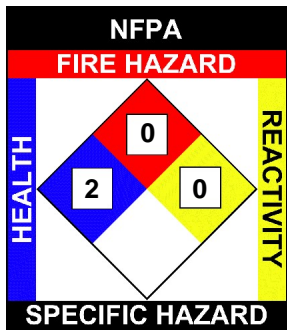
Regulatory CODE Descriptions

RQ = Reportable Quantity
TSCA = Toxic Substances Control Act
CERCLA = Superfund clean up substance
EPCRAWPC = EPCRA Water Priority Chemicals
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
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
NRC = Nationally Recognized Carcinogens

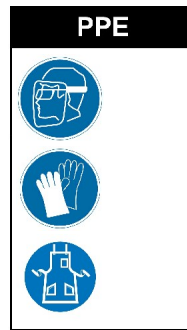
NFPA: Health = 2, Fire = 0, Reactivity = 0, Specific Hazard = n/a

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