

# SDS

# GHS Safety Data Sheet

**WELD MOLD COMPANY** 

# 4333 Electrode, Tig and Mig

# PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier:** 4333 Electrode, Tig and Mig

SDS Number: 03

**Revision Date:** 5/29/2015 **Version:** 2

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

2

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; Inhalation

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.

ACUTE EFFECTS: Irritating to the nose, throat and respiratory tract.

SUBCHRONIC/CHRONIC TOXICITY

CHRONIC: Chronic overexposer 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/IN

# **COMPOSITION/INFORMATION ON INGREDIENTS**

# Ingredients:

Cas#	<u>%</u>	Chemical Name
7782-42-5 1344-28-1 1633-05-2 7789-75-5 9004-32-4 1302-78-9 7440-32-6 7439-96-5 7440-21-3 7440-31-5 7723-14-0 7440-50-8 1317-65-3 15096-52-3 1344-09-8	0-0.2% 0-2% 0-0.2% 0-1% 0-0.5% 0-0.3% 0-0.6% 0-0.5% 0-15% 0-11% 0-0.15% 77.83-99.9% 0-2.2% 0-14% 0-4%	Carbon aka Graphite Aluminum oxide (Al2O3) Carbonic acid, strontium salt (1:1) Calcium fluoride (CaF2) Cellulose Bentonite Titanium Manganese compounds and fumes (as Mn) Silicon Tin Phosphorus Copper Calcium Carbonate (limestone) Sodium aluminum flouride (as F) Silicic acid, sodium salt
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# **EXPOSURE LIMITS**

CHEMICAL NAME		OSHA PEL	ACGIH TLV
Carbon aka Graphite		15 mg/m3 TWA	10 mg/m3
Aluminum Oxide		10 mg/m3	10 mg/m3
Strontium Carbonate		NL	NL
Calcium Fluoride		2.5 mg/m3 As F	2.5 mg/m3
Cellulose		10 mg/m3	10 mg/m3
Bentonite clay		5 mg/m3 (Dust)	5 mg/m3
Titanium dioxide	10 mg/	m3 NL = Not Listed	10 mg/m3
Manganese compounds		5 mg/m3	1 mg/m3
Silicon	10 mg/m3* = To	otal dust, <=Respirable fraction	10 mg/m3 Total Dust
Tin		2 mg/m3 TWA	2 mg/m3 TWA
Phosphorus		NL=Not Listed	.02
Copper		1 mg/m3	1 mg/m3
Calcium Carbonate (limestone)		15 mg/m3	2 mg/m3
Sodium aluminum fluoride		2.5 mg/m3 as F	2.5 mg/m3
Silic acid, sodium salt		NL	NL

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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 Protective

HMIS PP, D | Face Shield and Eye Protection, Gloves, Apron

**Equipment:** 

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

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.

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#### **REGULATORY INFORMATION**

Component (CAS#) [%] - CODES

Aluminum oxide (Al2O3) (1344-28-1) [0-2%] MASS, NJHS, OSHAWAC, PA, SARA313, TSCA, TXAIR

Calcium fluoride (CaF2) (7789-75-5) [0-1%] TSCA

Silicon (7440-21-3) [0-50%] MASS, OSHAWAC, PA, TSCA, TXAIR

Tin (7440-31-5) [0-1%] MASS, OSHAWAC, PA, TSCA, TXAIR

RQ(5000LBS), Copper (7440-50-8) [77.83-99.9%] CERCLA, EPCRAWPC, MASS, NJHS, OSHAWAC, PA, PRIPOL, SARA313, TOXICPOL, TSCA, TXAIR

Calcium Carbonate (limestone) (1317-65-3) [0-2.2%] MASS, OSHAWAC, PA, TSCA, TXAIR

Sodium aluminum flouride (as F) (15096-52-3) [0-14%] TSCA

Silicic acid, sodium salt (1344-09-8) [0-4%] TSCA

#### Regulatory CODE Descriptions

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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
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(Chronic), Fire = 0, Physical Hazard = 0 HMIS PPE: D - Face Shield and Eye Protection, Gloves, Apron







**REGULATORY IONFORMATION:** 

#### **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 STATUS: All components of this product are listed on or exempt from the TSCA

inventory.

"WARNING: This product contains the following chemical(s) known to the state of California to cause cancer: Nickel (metallic) CAS# 7440-02-0"