



This item was discontinued prior to GHS implementation.
A GHS Safety Data Sheet is not available for this item.

Material Safety Data Sheet

Revision Date 28-Sep-2012

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product code CW3329A
Product name Cronaweld 360P
Recommended Use Welding Alloy

Supplier Cronatron, A Lawson Brand
Lawson Products, Inc.
8770 W.Bryn Mawr Ave.- Suite 900
Chicago, IL 60631
1-866-529-7664

Emergency telephone number (888) 426-4851

2. HAZARDS IDENTIFICATION

Emergency Overview
No information available

Aggravated Medical Conditions

Pre-existing respiratory conditions may be aggravated by exposure to this product. Asthma like conditions.

Principal Routes of Exposure

Inhalation. Eyes. Skin.

General Welding Statement

Arc Rays can injure eyes and burn skin. Electric shock can kill. Fumes and gases can be dangerous to your health. The ACGIH and OSHA have set the exposure level for welding fumes at 5 mg/m³. Welding fumes must be considered as possible carcinogens under OSHA 29 CFR 1910.1200.

Potential health effects

Eyes No adverse affects expected
Skin Possible burns to tissue.

Inhalation

Short term overexposure to welding fumes may result in dizziness, nausea, or dryness or irritation of nose, throat, or eyes. Long term exposure may lead to iron deposits in the lungs and is believed by some investigators to affect pulmonary function. Iron deposits in the lungs may cause siderosis. Inhalation of magnesium and magnesium oxide fumes can cause metal fume fever. Initial symptoms of metal fume fever can include sweating, shivering, headache, fever, chills, thirstiness, muscle aches, nausea, vomiting, weakness, and tiredness. Long term exposure can lead to Manganism. The central nervous system is affected and symptoms include muscular weakness and tremor. Exposed workers should get quarterly medical examinations for manganism. Symptoms may be similar to Parkinson's Disease, including slowness, changes in handwriting, gait impairment, muscle spasms and cramps, and less commonly, tremor and behavioral changes. Chronic exposure to high levels of manganese dust and fumes can cause nervous system disorders, pneumonitis (inflammation of lung tissue), and may cause fibrosis (scarring of lung tissue) and reproductive disorders in males. Prolonged overexposure to Aluminum oxide may cause pulmonary fibrosis and emphysema. Respirable Crystalline Silica, (Quartz) can cause silicosis, a fibrous scarring of the lungs and possibly cancer. Death. Long term exposure to welding fumes may result in the following effects. pulmonary fibrosis (scarring or the lungs). Asthma-like symptoms. Bronchitis. Central nervous system effects. Convulsions. Chest discomfort. Weight loss. Possible unconsciousness. Welding fumes must be considered as possible carcinogens under OSHA 29 CFR 1910.1200.

Ingestion

Long term inhalation of lead fumes or ingestion of lead may lead to lead poisoning with symptoms such as metallic taste, abdominal pain, nausea, joint or muscle pain or weakness, possible weight loss, mental confusion, anemia and a "lead line" on gums. Extreme overexposure may cause. Unconsciousness. Death.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Iron	7439-89-6	75-98
Silicate Binders	Mixture	< 10

Titanium dioxide	13463-67-7	< 10
Aluminum Oxide	1344-28-1	< 5
Silicate, Mica	12001-26-2	< 5
Silicon Dioxide (Crystalline Quartz)	14808-60-7	< 5
Manganese	7439-96-5	1-5
Cellulose	9004-34-6	< 5
Magnesium Carbonate	546-93-0	< 2

4. FIRST AID MEASURES

Eye contact	If symptoms persist, call a physician.
Skin contact	Consult a physician if necessary.
Ingestion	Do Not induce vomiting without medical advice. Call a physician or Poison Control Center immediately.
Inhalation	Remove to fresh air. If symptoms persist, call a physician.

5. FIRE FIGHTING MEASURES

Flash point °C	No data available
Flash point °F	No data available
Method	No information available

Autoignition temperature °C	No data available
Autoignition temperature °F	No data available

Flammability Limits (% in Air)

Upper	No data available
Lower	No data available

Suitable extinguishing media

Product is nonflammable. Use extinguishing media appropriate to surrounding fire.

Special protective equipment for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

Fire and Explosion Hazards

Welding arcs and sparks can ignite combustibles. Refer to American National Standard Z49.1 for fire prevention during welding.

Sensitivity to shock

No information available.

Sensitivity to static discharge

No information available.

6. ACCIDENTAL RELEASE MEASURES

Methods for cleaning up

Pick up and transfer to properly labelled containers.

7. HANDLING AND STORAGE

Handling

Handle in accordance with good industrial hygiene and safety practice.

Storage

Keep in a dry place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	OSHA PEL (TWA)	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Iron	-	-	5.0 mg/m ³ as iron oxide respirable fraction	-
Manganese	-	5 mg/m ³	0.2 mg/m ³	-
Aluminum Oxide	15 mg/m ³	-	-	-
Cellulose	15 mg/m ³	-	10 mg/m ³	-
Silicate, Mica	-	-	3 mg/m ³	-
Silicon Dioxide (Crystalline Quartz)	-	-	0.025 mg/m ³	-
Titanium dioxide	15 mg/m ³	-	10 mg/m ³	-
Magnesium Carbonate	15 mg/m ³	-	-	-
Silicate Binders	-	-	-	-

Ventilation and Environmental Controls

Sufficient ventilation in volume and in pattern, should be provided to keep air contamination below current applicable OSHA PEL or ACGIH OEL limits.

Hygiene measures

General industrial hygiene practice

Respiratory protection

Use respirable fume respirator (P100) or supplied air when welding in confined spaces, or where local exhaust does not keep the exposure below TLV. Train welder to keep head out of fumes.

Hand Protection

Welder's gloves.

Eye protection

Wear helmet or face shield with filter lens. As a rule of thumb, start with a shade which is too dark to see the work area. Then go to the next lighter shade which gives sufficient view of the work area. Provide protective screens and flash goggles, if necessary, to shield others.

Skin and body protection

Sufficient to provide protection from radiation, heat, sparks and electrical shock. May include arm and shoulder protectors, aprons and dark substantial clothing. See ANSI Z49.1.

Other Protective Equipment

Wear head, hand and body protection which help prevent injury from radiation, sparks, heat, and electrical shock. See ANSI Z49.1.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Solid
Color	No information available
Odor	No information available
Odor Threshold	No information available
pH	No data available
Specific Gravity	No data available
Vapor pressure	No data available
Vapor density	No data available
Evaporation Rate	No data available
Water solubility	No data available
Partition Coefficient (n-octanol/water)	No data available
Boiling point/range °C	No data available
Boiling point/range °F	No data available
Melting point/range °C	No data available
Melting point/range °F	No data available
Flash point °F	No data available

10. STABILITY AND REACTIVITY**Stability**

Stable

Conditions to avoid

No information available

Incompatibility

No information available

Hazardous Decomposition Products

Welding fumes cannot be classified simply. Their composition and quantity are dependent upon the metal being welded, the process, procedures and electrodes being used. Other conditions which also influence the composition and quantity of the fumes and gases to which workers may be exposed include; . Coatings on the metal being welded (such as paint, plating, or galvanizing), number of welders and volume of work area. Contaminants in the atmosphere such as chlorinated hydrocarbon vapors from cleaning and degreasing operations. The amount and type of ventilation, the position of the welder's head with respect to the fume plume. When the electrode is consumed, the fume and gas decomposition products are different in percent and form from the ingredients listed in Section 3. The concentration of a given fume or gas component may decrease or increase by many times the original concentration in the electrode. Decomposition products include those originating from the volatilization, reaction or oxidation of the wire or rod plus those from the base metal and coating. New compounds not in the electrodes may form during use. Reasonably expected decomposition products from normal use of these products include the oxides of the material listed in the ingredients section, as well as carbon monoxide, carbon dioxide, ozone and nitrogen oxides. One recommended way to determine the composition and quantity of fumes and gases to which workers are exposed is to take an air sample inside the welder's helmet, if worn, or in the worker's breathing zone. See ANSI/AWS F1.1.

Polymerization

Hazardous polymerization does not occur

11. TOXICOLOGICAL INFORMATION**Component Information**

Chemical Name	LD50 (oral, rat)	LD50 (dermal, rat/rabbit)	LC50 (inhalation, rat)
<i>Iron</i> 7439-89-6	984 mg/kg	-	-
<i>Manganese</i> 7439-96-5	9 g/kg	-	-
<i>Aluminum Oxide</i> 1344-28-1	5000 mg/kg	-	-
<i>Cellulose</i> 9004-34-6	5 g/kg	2 g/kg	5800 mg/m ³
<i>Silicate, Mica</i> 12001-26-2	-	-	-
<i>Silicon Dioxide (Crystalline Quartz)</i> 14808-60-7	500 mg/kg	-	-
<i>Titanium dioxide</i> 13463-67-7	10000 mg/kg	-	-
<i>Magnesium Carbonate</i> 546-93-0	-	-	-
<i>Silicate Binders Mixture</i>	-	-	-

Synergistic Products

None known

Potential health effects**Sensitization**

None known

Chronic toxicity	See Section 2 .
Mutagenic effects	None known
Teratogenic effects	None known
Reproductive toxicity	None known
Target Organ Effects	See Section 2
Other adverse effects	Initial symptoms of metal fume fever can include sweating, shivering, headache, fever, chills, thirstiness, muscle and joint aches, nausea, vomiting, weakness, tiredness and a blue tinge to the skin .
Carcinogenic effects	Welding fumes must be considered as possible carcinogens under OSHA 29 CFR 1910.1200.

Chemical Name	ACGIH OEL - Carcinogens	IARC	NTP - Known Carcinogens	NTP - Suspected Human Carcinogens	OSHA RTK Carcinogens
Iron	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Manganese	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Aluminum Oxide	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Cellulose	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Silicate, Mica	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Silicon Dioxide (Crystalline Quartz)	A2	Group 1	Known Human Carcinogen	Not Listed	Listed
Titanium dioxide	A4	Group 2B	Not Listed	Not Listed	Listed
Magnesium Carbonate	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Silicate Binders	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed

12. ECOLOGICAL INFORMATION

13. DISPOSAL CONSIDERATIONS

Disposal Information

Prevent waste from contaminating surrounding environment.

Waste from residues / unused products

Discard in accordance with federal, state, and local regulations.

14. TRANSPORTATION INFORMATION

DOT

Not Regulated.

TDG

Not Regulated

15. REGULATORY INFORMATION

Chemical Name	US EPA SARA 313 Emission Reporting
Manganese	Listed
Aluminum Oxide	Listed

State Regulations

Chemical Name	New Jersey - RTK	Pennsylvania - RTK	California Prop. 65
Iron	Not Listed	Not Listed	Not Listed
Manganese	Not Listed	Listed	Not Listed
Aluminum Oxide	Not Listed	Listed	Not Listed
Cellulose	Not Listed	Listed	Not Listed
Silicate, Mica	Not Listed	Listed	Not Listed
Silicon Dioxide (Crystalline Quartz)	Not Listed	Listed	Carcinogen
Titanium dioxide	Not Listed	Listed	Carcinogen
Magnesium Carbonate	Not Listed	Not Listed	Not Listed
Silicate Binders	Not Listed	Not Listed	Not Listed

International Inventories

Chemical Name	EINECS	DSL	NDSL	TSCA
Iron	X	X	-	X
Manganese	X	X	-	X
Aluminum Oxide	X	X	-	X
Cellulose	X	X	-	X
Silicate, Mica	-	X	-	-
Silicon Dioxide (Crystalline Quartz)	X	X	-	X
Titanium dioxide	X	X	-	X
Magnesium Carbonate	X	X	-	X
Silicate Binders	-	-	-	-

CPR

This product has been classified in accordance with the hazard criteria of the Controlled Product Regulations and the MSDS contains all of the information required by the Controlled Product Regulations

16. OTHER INFORMATION

Prepared By

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The information accumulated herein is believed to be accurate, but is not warranted to be, whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.

Product code **CW3329A**

Product name **Cronaweld
360P**
