Safety Data Sheet

Issue date 12-Jul-2018 **Revision date** 12-Jul-2018 **Revision Number** 1

1. IDENTIFICATION

Product identification

Product identifier	Cronatron™ 556 Aluminum MIG Welding Wire
Other means of identification	CW5163
Recommended use	Welding Alloy
Restrictions on use	These items are only intended for normal welding purposes. For industrial use only

Supplier

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

Canadian Distribution Center:
Lawson Canada
7315 Rapistan Court
Mississauga, ON L5N 5Z4
(800) 323-5922

24 Hour Emergency Phone Number (888) 426-4851 (Prosar)

2. HAZARD(S) IDENTIFICATION

Hazard Classification

Solid metallic products are generally classified as 'articles' and do not constitute a hazardous material in solid form under the definitions of the OSHA Hazard Communication Standard (29 CFR 1910.1200). Any articles manufactured from these solid products would be generally classified as non-hazardous. Some hazardous elements contained in these products can be emitted under certain processing conditions such as but not limited to : burning, melting, cutting, sawing, brazing, grinding, machining, milling, and welding. Products in the solid state present no fire or explosion hazard. Small chips, fines, and dust may ignite readily, though. The following classification information is for the hazardous elements which may be released during processing.

Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 1
Hazardous to the aquatic environment	Category 1

Symbol

Signal word DANGER

Hazard statements

H335 - May cause respiratory irritation
H336 - May cause drowsiness or dizziness
H372 - Causes damage to organs through prolonged or repeated exposure
H400 - Very toxic to aquatic life

Precautionary statements

Prevention

P260 - Do not breathe dust/fume/gas/mist/vapors/spray
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
P264 - Wash skin thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P271 - Use only outdoors or in a well-ventilated area
P273 - Avoid release to the environment

Response

General

P314 - Get medical advice/attention if you feel unwell.
P312 - Call a POISON CENTER or doctor if you feel unwell

Inhalation

P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Spill

P391 - Collect spillage

Storage

P405 - Store locked up
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

Disposal

P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable

Hazard(s) Not Otherwise Classified (HNOC)

None known.

Physical Hazards Not Otherwise Classified (PHNOC)

None known.

Unknown acute toxicity

None known

3. COMPOSITION/INFORMATION ON INGREDIENTS

Composition

Mixture.

Chemical name	CAS-No	Weight %
Aluminum	7429-90-5	60-100
Silicon	7440-21-3	0.06-13
Copper	7440-50-8	0.0005-7
Manganese	7439-96-5	0.1-1
Iron	7439-89-6	0.1-0.8
Chromium	7440-47-3	0.01-0.35
Titanium dioxide	13463-67-7	0.06-0.2
Silica, Amphorous Silica Fused	60676-86-0	0.1-1
Titanium	7440-32-6	0.01-0.02
Beryllium	7440-41-7	0.0001-0.0008
Zinc	7440-66-6	<1
Magnesium	7439-95-4	<1

4. FIRST-AID MEASURES

Necessary first-aid measures

Inhalation Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion Do NOT induce vomiting. Seek medical attention immediately.

Skin contact Flush with plenty of water for at least 15 minutes. Seek medical attention if irritation persists.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek medical attention if irritation persists.

Most important symptoms (acute) Symptoms after inhalation:. Short term (acute) overexposure to the gases, fumes, and dusts may include irritation of the eyes, lungs, nose, and throat. Some toxic gases associated with welding may cause pulmonary edema, asphyxiation, and death. Acute overexposure may include signs and symptoms such as watery eyes, nose and throat irritation, headache, dizziness, difficulty in breathing, frequent coughing or chest pains. The presence of chromium/chromate in fume can cause irritation of nasal membranes and skin. The presence of nickel compounds in fume can cause metallic taste, nausea, tightness of chest, fever, and allergic reaction. Excessive inhalation or ingestion of manganese can produce manganese poisoning. Overexposure to manganese compounds may affect the central nervous system, symptoms of which are languor, sleepiness, muscular weakness, emotional disturbances, and spastic gait resembling Parkinsonism. These symptoms can become progressive and permanent if not treated. Excessive inhalation of fumes may cause 'Metal Fume Fever' with flu-like symptoms such as chills, fever, body aches, vomiting, sweating, etc. Symptoms after skin contact:. Causes skin irritation. Symptoms after eye contact:. Causes eye irritation. Symptoms after ingestion:. Not expected to present a significant hazard under anticipated conditions of normal use. Harmful if swallowed.

Most important symptoms (over-exposure) Not available.

Indication of any immediate medical attention and special treatment needed Not available.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media Not available.

Specific hazards Thermal degradation may produce irritating or poisonous gases.

Special protective equipment for fire-fighters In the event of fire, wear self-contained breathing apparatus and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures Wear personal protective clothing and equipment, see section 8. Ensure adequate ventilation. Avoid release to the environment. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Methods and materials Take up mechanically. Collect the material in labeled containers and dispose of according

for containment and cleaning up

to local and regional authority requirements. See information in section 7 for safe handling. Use personal protection recommended in Section 8. For waste disposal, see section 13 of the SDS.

7. HANDLING AND STORAGE

Precautions for safe handling

Welding may produce dust, fumes and gases hazardous to health. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only with adequate ventilation. Keep away from sources of ignition - No smoking. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product.

Conditions for safe storage, including any incompatibilities

Store in a cool, dry, and well-ventilated place. Keep away from incompatible materials. Keep away from open flames, hot surfaces and sources of ignition.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Chemical name	OSHA PEL (TWA)	ACGIH OEL (TWA)	NIOSH - TWA
Aluminum	15 mg/m³ TWA 5 mg/m³ TWA	1 mg/m³ TWA	10 mg/m³ TWA 5 mg/m³ TWA 5 mg/m³ TWA 5 mg/m³ TWA
Silicon	15 mg/m³ TWA 5 mg/m³ TWA	-	10 mg/m³ TWA 5 mg/m³ TWA
Copper	0.1 mg/m³ TWA 1 mg/m³ TWA	0.2 mg/m³ TWA 1 mg/m³ TWA	1 mg/m³ TWA 0.1 mg/m³ TWA 1 mg/m³ TWA
Manganese	5 mg/m³ Ceiling	0.02 mg/m³ TWA 0.1 mg/m³ TWA	3 mg/m³ STEL 1 mg/m³ TWA 1 mg/m³ TWA
Iron	-	-	-
Chromium	1 mg/m³ TWA	0.5 mg/m³ TWA	0.5 mg/m³ TWA
Titanium dioxide	15 mg/m³ TWA	10 mg/m³ TWA	-
Silica, Amphorous Silica Fused	-	-	-
Titanium	-	-	-
Beryllium	2 µg/m³ Ceiling 0.2 µg/m³ TWA 0.2 µg/m³ TWA	0.00005 mg/m³ TWA	-
Zinc	-	-	-
Magnesium	-	-	-

Appropriate engineering controls

Local exhaust and general ventilation must be adequate to meet exposure standards.

Individual protection measures, such as personal protective equipment

Eye protection

Wear helmet or face shield with filter lens of appropriate shade number. See ANSI/ASC Z49.1 Section 4.2. Provide protective screens and flash goggles,if necessary, to shield others.

Skin and body protection

Wear welding gloves. Wear head, hand, and body protection which help to prevent injury from radiation, sparks, and electrical shock. See ANSI Z49.1. At a minimum, this includes welders' gloves and a protective face shield and may include arm protectors, aprons, hats, shoulder protection, as well as dark substantial clothing. Train the welder not to touch live electrical parts and to insulate themselves from work and ground, especially if clothing and gloves are wet. Welders should not wear short sleeve shirts or short pants.

Respiratory protection

If exposure limits are exceeded or irritation is experienced, a NIOSH/MSHA approved respirator is recommended.

Hygiene measures Wash hands after handling the product.

Canadian Province Occupational Exposure Limits

Chemical name	Alberta OEL	British Columbia OEL	Manitoba OEL	New Brunswick - OEL	Newfoundland & Labrador - OEL	Nova Scotia - OEL	Ontario OEL	Prince Edward Island - OEL	Quebec OEL	Saskatchewan - OEL
Aluminum	10 mg/m³ TWA 5 mg/m³ TWA	1.0 mg/m³ TWA	1 mg/m³ TWA	10 mg/m³ TWA 5 mg/m³ TWA	1 mg/m³ TWA	1 mg/m³ TWA	1 mg/m³ TWA	1 mg/m³ TWA	10 mg/m³ TWAEV 5 mg/m³ TWAEV 5 mg/m³ TWAEV	20 mg/m³ STEL 10 mg/m³ STEL 10 mg/m³ TWA 5 mg/m³ TWA
Silicon	-	10 mg/m³ TWA 3 mg/m³ TWA	-	10 mg/m³ TWA	-	-	-	-	10 mg/m³ TWAEV	20 mg/m³ STEL 10 mg/m³ TWA
Copper	0.2 mg/m³ TWA 1 mg/m³ TWA	1 mg/m³ TWA 0.2 mg/m³ TWA	0.2 mg/m³ TWA 1 mg/m³ TWA	0.2 mg/m³ TWA 1 mg/m³ TWA	0.2 mg/m³ TWA 1 mg/m³ TWA	0.2 mg/m³ TWA 1 mg/m³ TWA	0.2 mg/m³ TWA 1 mg/m³ TWA	0.2 mg/m³ TWA 1 mg/m³ TWA	0.2 mg/m³ TWAEV 1 mg/m³ TWAEV	0.6 mg/m³ STEL 3 mg/m³ STEL 0.2 mg/m³ TWA 1 mg/m³ TWA
Manganese	0.2 mg/m³ TWA	0.2 mg/m³ TWA 0.2 mg/m³ TWA	0.02 mg/m³ TWA 0.1 mg/m³ TWA	0.2 mg/m³ TWA	0.02 mg/m³ TWA 0.1 mg/m³ TWA 0.02 mg/m³ TWA 0.1 mg/m³ TWA	0.02 mg/m³ TWA 0.1 mg/m³ TWA	0.2 mg/m³ TWA 0.02 mg/m³ TWA 0.1 mg/m³ TWA	0.02 mg/m³ TWA 0.1 mg/m³ TWA 0.02 mg/m³ TWA 0.1 mg/m³ TWA	0.2 mg/m³ TWAEV 0.2 mg/m³ TWAEV	0.6 mg/m³ STEL 0.2 mg/m³ TWA 0.2 mg/m³ TWA
Iron	-	-	-	-	-	-	-	-	-	-
Chromium	0.5 mg/m³ TWA	0.5 mg/m³ TWA	0.5 mg/m³ TWA	0.5 mg/m³ TWA	0.5 mg/m³ TWA	0.5 mg/m³ TWA	0.5 mg/m³ TWA	0.5 mg/m³ TWA	0.5 mg/m³ TWAEV	1.5 mg/m³ STEL 0.5 mg/m³ TWA
Titanium dioxide	10 mg/m³ TWA	10 mg/m³ TWA 3 mg/m³ TWA	10 mg/m³ TWA	10 mg/m³ TWA	10 mg/m³ TWA	10 mg/m³ TWA	10 mg/m³ TWA	10 mg/m³ TWA	10 mg/m³ TWAEV	20 mg/m³ STEL 10 mg/m³ TWA
Silica, Amphorous Silica Fused	-	-	-	0.1 mg/m³ TWA	-	-	0.1 mg/m³ TWA	-	0.1 mg/m³ TWAEV	0.1 mg/m³ TWA
Titanium	-	-	-	-	-	-	-	-	-	-
Beryllium	0.01 mg/m³ STEL 0.002 mg/m³ TWA	0.00005 mg/m³ TWA 0.00005 mg/m³ TWA	0.00005 mg/m³ TWA	0.01 mg/m³ STEL 0.002 mg/m³ TWA	0.00005 mg/m³ TWA 0.00005 mg/m³ TWA	0.00005 mg/m³ TWA	0.00005 mg/m³ TWA 0.00005 mg/m³ TWA	0.00005 mg/m³ TWA 0.00005 mg/m³ TWA	0.00015 mg/m³ TWAEV 0.00015 mg/m³ TWAEV	0.01 mg/m³ STEL 0.002 mg/m³ TWA 0.002 mg/m³ TWA
Zinc	-	-	-	-	-	-	-	-	-	-
Magnesium	-	-	-	-	-	-	-	-	-	-

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state Solid

Color Metallic

Odor Not available

Odor threshold	Not available
pH	Not applicable
Melting point/range °C	Not available
Melting point/range °F	Not available
Boiling point/range °C	Not applicable
Boiling point/range °F	Not applicable
Flash point °C / °F	Not applicable
Evaporation rate	Not applicable
Flammability (Solid, Gas)	Not available
Lower explosion limit	Not available
Upper explosion limit	Not available
Vapor pressure	Not applicable
Vapor density	Not available
Relative density	Not available
Solubility	Not available
Partition coefficient (n-octanol/water)	Not applicable
Autoignition temperature °C	Not applicable
Autoignition temperature °F	Not applicable
Decomposition temperature °C	Not available
Decomposition temperature °F	Not available
Viscosity	Not available

10. STABILITY AND REACTIVITY

Reactivity	Not available.
Chemical stability	Stable under normal conditions. When using it may produce fumes and gases.
Possibility of hazardous reactions	None under normal conditions of use.
Conditions to avoid	None known.
Incompatible materials	None known.
Hazardous decomposition products	Welding fumes and gases cannot be classified simply. The composition and quantity of both are dependent upon the metal being welded, the process, procedure and welding consumables 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), the number of welders and the volume of the work area, the quality and the amount of ventilation, position of the welder's head with respect to the fume plume, as well as the presence of contaminants in the atmosphere (such as chlorinated hydrocarbon vapors from cleaning and degreasing activities). When the electrode is consumed, the fume and gas decomposition products are different in percent and form from the ingredients listed in Section 3. Fume and decomposition products, not the ingredients in the electrode, are important. The concentration of a given fume or gas component may decrease or increase by many times the original concentration in the electrode. New compounds not in the electrodes may form during use. Decomposition products include those originating from the volatilization, reaction or oxidation of the wire or rod plus those from the base metal and coating. Reasonably expected fume constituents of the fume could include complex oxides of iron, manganese, silicon, chromium, nickel, columbium, molybdenum, copper, carbon dioxide, carbon monoxide, ozone and nitrogen oxides. Some products will also contain antimony, barium, molybdenum, aluminum, columbium, magnesium, strontium, tungsten, and or zirconium. Fume limit for chromium, nickel, and or manganese may be reached before limit of 5 mg/m^3 of general welding fumes is reached. Gaseous reaction products may include carbon monoxide and carbon dioxide. Ozone and nitrogen oxides may also be formed by radiation from the arc. 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. Improve ventilation if exposures are not below limits.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation. Ingestion.

Symptoms

Harmful if swallowed. May cause dizziness and drowsiness. May cause respiratory irritation.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

May cause cancer. Causes damage to organs through prolonged or repeated exposure.

Numerical measures of toxicity

Chemical name	Inhalation LC50:	Dermal LD50:	Oral LD50:
Aluminum	-	-	-
Silicon	-	-	= 3160 mg/kg (Rat)
Copper	-	-	-
Manganese	-	-	= 9 g/kg (Rat)
Iron	-	-	= 30 g/kg (Rat)
Chromium	-	-	-
Titanium dioxide	-	-	> 10000 mg/kg (Rat)
Silica, Amphorous Silica Fused	-	-	-
Titanium	-	-	-
Beryllium	-	-	-
Zinc	-	-	= 630 mg/kg (Rat)
Magnesium	-	-	= 230 mg/kg (Rat)

ATEmix (dermal) Not available

ATEmix (oral) Not available

ATEmix (inhalation-gas) Not available

ATEmix (inhalation-vapor) Not available

ATEmix (inhalation-dust/mist) Not available

Carcinogenicity

Chemical name	ACGIH OEL - Carcinogens	IARC	OSHA RTK Carcinogens	NTP
Aluminum	A4	-	-	-
Silicon	-	-	-	-
Copper	-	-	-	-
Manganese	A4	-	-	-
Iron	-	-	-	-
Chromium	A4	Group 3	-	-
Titanium dioxide	A4	Group 2B	Listed	-
Silica, Amphorous Silica Fused	-	Group 3	-	-
Titanium	-	-	-	-
Beryllium	A1	Group 1	Listed	Known
Zinc	-	-	-	-
Magnesium	-	-	-	-

Canadian Province carcinogenicity limits

Chemical name	Alberta - Carcinogen	British Columbia - Carcinogen	Manitoba - Carcinogen	New Brunswick - Carcinogen	Nova Scotia - Carcinogen	Quebec - Carcinogen
Aluminum	-	-	ACGIH A4	-	ACGIH A4	-
Silicon	-	-	-	-	-	-
Copper	-	-	-	-	-	-
Manganese	-	-	ACGIH A4	-	ACGIH A4	-
Iron	-	-	-	-	-	-
Chromium	-	-	ACGIH A4	ACGIH A4	ACGIH A4	-
Titanium dioxide	-	IARC 2B	ACGIH A4	ACGIH A4	ACGIH A4	-
Silica, Amphorous Silica Fused	-	-	-	-	-	-
Titanium	-	-	-	-	-	-
Beryllium	A1 - Confirmed Human Carcinogen	ACGIH A1 ACGIH A1 IARC 1 IARC 1	ACGIH A1	ACGIH A1 ACGIH A1	ACGIH A1	C1 carcinogen C1 carcinogen
Zinc	-	-	-	-	-	-
Magnesium	-	-	-	-	-	-

12. ECOLOGICAL INFORMATION

Ecotoxicity Very toxic to aquatic life

Chemical name	Algae/aquatic plants	Fish
Aluminum	-	-
Silicon	-	-
Copper	0.0426 - 0.0535: 72 h Pseudokirchneriella subcapitata mg/L EC50 static 0.031 - 0.054: 96 h Pseudokirchneriella subcapitata mg/L EC50 static	0.0068 - 0.0156: 96 h Pimephales promelas mg/L LC50 0.2: 96 h Pimephales promelas mg/L LC50 flow-through 0.3: 96 h Pimephales promelas mg/L LC50 static 1.25: 96 h Lepomis macrochirus mg/L LC50 static 0.052: 96 h Oncorhynchus mykiss mg/L

Chemical name	Algae/aquatic plants	Fish
		LC50 flow-through 0.112: 96 h Poecilia reticulata mg/L LC50 flow-through 0.8: 96 h Cyprinus carpio mg/L LC50 static 0.3: 96 h Cyprinus carpio mg/L LC50 semi-static
Manganese	-	-
Iron	-	13.6: 96 h Morone saxatilis mg/L LC50 static
Chromium	-	-
Titanium dioxide	-	-
Silica, Amphorous Silica Fused	-	-
Titanium	-	-
Beryllium	-	-
Zinc	0.11 - 0.271: 96 h Pseudokirchneriella subcapitata mg/L EC50 static 0.09 - 0.125: 72 h Pseudokirchneriella subcapitata mg/L EC50 static	2.16 - 3.05: 96 h Pimephales promelas mg/L LC50 flow-through 0.45: 96 h Cyprinus carpio mg/L LC50 semi-static 2.66: 96 h Pimephales promelas mg/L LC50 static 3.5: 96 h Lepomis macrochirus mg/L LC50 static 7.8: 96 h Cyprinus carpio mg/L LC50 static 30: 96 h Cyprinus carpio mg/L LC50 0.211 - 0.269: 96 h Pimephales promelas mg/L LC50 semi-static 0.24: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 0.59: 96 h Oncorhynchus mykiss mg/L LC50 semi-static 0.41: 96 h Oncorhynchus mykiss mg/L LC50 static
Magnesium	-	-

Persistence and degradability Not available.

Bioaccumulation

Chemical name	CAS-No	Partition coefficient (log Kow)
Aluminum 7429-90-5	7429-90-5	-
Silicon 7440-21-3	7440-21-3	-
Copper 7440-50-8	7440-50-8	-
Manganese 7439-96-5	7439-96-5	-
Iron 7439-89-6	7439-89-6	-
Chromium 7440-47-3	7440-47-3	-
Titanium dioxide 13463-67-7	13463-67-7	-
Silica, Amphorous Silica Fused 60676-86-0	60676-86-0	-
Titanium 7440-32-6	7440-32-6	-
Beryllium 7440-41-7	7440-41-7	-
Zinc 7440-66-6	7440-66-6	-
Magnesium 7439-95-4	7439-95-4	-

Mobility in soil Not available.

Other adverse effects Not available

13. DISPOSAL CONSIDERATIONS

Disposal information Dispose of all product, residues and clean-up materials in accordance with local, state, and federal regulations.

Contaminated packaging Dispose in accordance with local, state and federal regulations.

14. TRANSPORTATION INFORMATION

Shipping Descriptions

DOT
Proper shipping name Not regulated

TDG
Proper shipping name Not regulated

IATA
Proper shipping name Not regulated

IMDG/IMO
Proper shipping name Not regulated

Marine Pollutants

Chemical name	CAS-No	USDOT Marine Pollutant	Canada TDG Marine Pollutant	IMDG Marine Pollutant
Aluminum	7429-90-5	-	-	-
Silicon	7440-21-3	-	-	-
Copper	7440-50-8	X	-	X
Manganese	7439-96-5	-	-	-
Iron	7439-89-6	-	-	-
Chromium	7440-47-3	-	-	-
Titanium dioxide	13463-67-7	-	-	-
Silica, Amphorous Silica Fused	60676-86-0	-	-	-
Titanium	7440-32-6	-	-	-
Beryllium	7440-41-7	-	-	-
Zinc	7440-66-6	-	-	-
Magnesium	7439-95-4	-	-	-

Special Precautions Multi-modal shipping descriptions are provided for informational purposes and do not consider container size. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.

15. REGULATORY INFORMATION

State regulations

U.S. state Right-to-Know

regulations

Chemical name	CAS-No	Massachusetts - RTK	New Jersey - RTK	Pennsylvania - RTK
Aluminum	7429-90-5	X	X	X
Silicon	7440-21-3	X	X	X
Copper	7440-50-8	X	X	X
Manganese	7439-96-5	X	X	X
Iron	7439-89-6	-	-	-
Chromium	7440-47-3	X	X	X
Titanium dioxide	13463-67-7	X	X	X
Silica, Amphorous Silica Fused	60676-86-0	X	X	-
Titanium	7440-32-6	-	X	-
Beryllium	7440-41-7	X	X	X
Zinc	7440-66-6	X	X	X
Magnesium	7439-95-4	X	X	X

California Prop. 65

WARNING: This product contains a chemical(s) known to the state of California to cause cancer

Chemical name	CAS-No	California Prop. 65
Aluminum	7429-90-5	-
Silicon	7440-21-3	-
Copper	7440-50-8	-
Manganese	7439-96-5	-
Iron	7439-89-6	-
Chromium	7440-47-3	-
Titanium dioxide	13463-67-7	Carcinogen
Silica, Amphorous Silica Fused	60676-86-0	-
Titanium	7440-32-6	-
Beryllium	7440-41-7	Carcinogen
Zinc	7440-66-6	-
Magnesium	7439-95-4	-

U.S. Federal Regulations

US EPA SARA 313

Chemical name	CAS-No	CERCLA/SARA Hazardous Substances RQ	SARA 313 - Threshold Values
Aluminum	7429-90-5	-	1.0 %
Silicon	7440-21-3	-	-
Copper	7440-50-8	5000 lb 2270 kg	1.0 %
Manganese	7439-96-5	-	1.0 %
Iron	7439-89-6	-	-
Chromium	7440-47-3	5000 lb 2270 kg 10 lb 4.54 kg	1.0 %
Titanium dioxide	13463-67-7	-	-
Silica, Amphorous Silica Fused	60676-86-0	-	-
Titanium	7440-32-6	-	-
Beryllium	7440-41-7	10 lb 4.54 kg	0.1 %

Chemical name	CAS-No	CERCLA/SARA Hazardous Substances RQ	SARA 313 - Threshold Values
Zinc	7440-66-6	454 kg 1000 lb	1.0 %
Magnesium	7439-95-4	-	-

US EPA SARA 311/312 hazardous categorization Not applicable

International inventories All components of this product are listed on the following inventories: U.S.A. (TSCA 8(b)), Canada (DSL/NDSL) or are exempt.

Chemical name	DSL/NDSL	Inventory - United States - Section 8(b) Inventory (TSCA)	U.S. - TSCA (Toxic Substances Control Act) - Section 12(b) - Export Notification
Aluminum	X	X	-
Silicon	X	X	-
Copper	X	X	-
Manganese	X	X	-
Iron	X	X	-
Chromium	X	X	-
Titanium dioxide	X	X	-
Silica, Amphorous Silica Fused	X	X	-
Titanium	X	X	-
Beryllium	X	X	-
Zinc	X	X	-
Magnesium	X	X	-

Legend X - Listed

16. OTHER INFORMATION

NFPA

Health 1
Flammability 0
Instability 0

HMIS

Health 2
Flammability 0
Physical hazards 0

Notice: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA).

Prepared by Regulatory Affairs

Issue date 12-Jul-2018

Revision date 12-Jul-2018

Revision note

Key to abbreviations

ACGIH (American Conference of Governmental Industrial Hygienists)
ATE (Average Toxicity Estimate)
DSL/NDSL (Domestic Substance List/Non-Domestic Substance List)
HMIS (Hazardous Materials Identification System)
IARC (International Agency for Research on Cancer)
IATA (International Air Transport Association)
IMDG/IMO (International Maritime Dangerous Goods/International Maritime Orgnaization)
NFPA (National Fire Protection Association)
NTP (National Toxicology Program)
OEL (Occupational Exposure Level)
OSHA (Occupational Safety and Health Administration of the US Department of Labor)
PEL (Permissible Exposure Limit)
TSCA (Toxic Substance Control Act)
USEPA (United States Environmental Protection Agency)

Disclaimer

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.

End of Safety Data Sheet