

# SAFETY DATA SHEET

Pretreated and/or Painted Aluminum Extrusions (AAMA 2603)

## Section 1. Identification

<b>GHS product identifier</b>	: Pretreated and/or Painted Aluminum Extrusions (AAMA 2603)
<b>Product code</b>	: Not available.
<b>Other means of identification</b>	: 6XXX Series Alloys including: 6005, 6005A, 6060, 6061, 6063, 6082, 6105, 6181, 6351, 6360, 6463; Aluminum; Wrought Aluminum Products
<b>Product type</b>	: Massive metal. Not hazardous in solid form. If dust or fumes are generated during processing (e.g., brazing, cutting, grinding, sawing, and welding) hazardous chemicals could be released.

### Relevant identified uses of the substance or mixture and uses advised against

<b>Product use</b>	: Various extruded and/or fabricated aluminum parts, products.
<b>Area of application</b>	: Consumer applications, Industrial applications.

**Manufacturer** : **Bonnell Aluminum, Inc.**  
25 Bonnell Street, Newnan, GA 30263

Website: BonnellAluminum.com  
Telephone no.: (770) 254-2020

**Emergency telephone number (with hours of operation)** : Chemtrec (North America): 1-800-424-9300 (24 hours)

## Section 2. Hazards identification

This product, under the normal conditions of use, meets the definition of an "ARTICLE".

If dust or fumes are generated during processing (e.g., brazing, cutting, grinding, sawing, and welding) hazardous chemicals could be released.

**OSHA/HCS status** : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Classification of the substance or mixture** : H317 SKIN SENSITIZATION - Category 1  
H351 CARCINOGENICITY - Category 2  
H360 TOXIC TO REPRODUCTION - Category 1A  
H362 TOXIC TO REPRODUCTION - Effects on or via lactation  
H372 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1

### GHS label elements

**Hazard pictograms** :



**Signal word** : Danger

## Section 2. Hazards identification

<b>Hazard statements</b>	: H317 - May cause an allergic skin reaction. H351 - Suspected of causing cancer. H360 - May damage fertility or the unborn child. H362 - May cause harm to breast-fed children. H372 - Causes damage to organs through prolonged or repeated exposure. (blood system, brain, central nervous system (CNS), kidneys, lungs)
<b><u>Precautionary statements</u></b>	
<b>Prevention</b>	: P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P280 - Wear protective gloves, protective clothing and eye or face protection. P260 - Do not breathe dust. P263 - Avoid contact during pregnancy and while nursing. P270 - Do not eat, drink or smoke when using this product. P264 - Wash thoroughly after handling.
<b>Response</b>	: P308 + P313 - IF exposed or concerned: Get medical advice or attention. P302 + P352 - IF ON SKIN: Wash with plenty of water. P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention. P362 + P364 - Take off contaminated clothing and wash it before reuse.
<b>Storage</b>	: P405 - Store locked up.
<b>Disposal</b>	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
<b>Hazards not otherwise classified</b>	: None known.
<b>Hazards identified when used</b>	: No known significant effects or critical hazards.

## Section 3. Composition/information on ingredients

<b>Substance/mixture</b>	: Mixture
<b>Other means of identification</b>	: 6XXX Series Alloys including: 6005, 6005A, 6060, 6061, 6063, 6082, 6105, 6181, 6351, 6360, 6463; Aluminum; Wrought Aluminum Products

Ingredient name	Synonyms	%	Identifiers
silicon	-	≤3	CAS: 7440-21-3
Manganese	-	≤3	CAS: 7439-96-5
lead	-	≤1	CAS: 7439-92-1
nickel	-	≤0.3	CAS: 7440-02-0

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

**There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.**

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

This product, under the normal conditions of use, meets the definition of an "ARTICLE".

If dust or fumes are generated during processing (e.g., brazing, cutting, grinding, sawing, and welding) hazardous chemicals could be released.

### Description of necessary first aid measures

<b>Eye contact</b>	: Get medical attention.
<b>Inhalation</b>	: Not applicable.

## Section 4. First aid measures

- Skin contact** : Wash with plenty of soap and water. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Cuts should be treated promptly and covered.
- Ingestion** : Not applicable.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

- Eye contact** : Not applicable.
- Inhalation** : Not applicable.
- Skin contact** : May cause an allergic skin reaction.
- Ingestion** : Not applicable.

#### Over-exposure signs/symptoms

- Eye contact** : No specific data.
- Inhalation** : Adverse symptoms may include the following:  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations
- Skin contact** : Adverse symptoms may include the following:  
irritation  
redness  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations
- Ingestion** : Adverse symptoms may include the following:  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations

### Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

This product, under the normal conditions of use, meets the definition of an "ARTICLE".

If dust or fumes are generated during processing (e.g., brazing, cutting, grinding, sawing, and welding) hazardous chemicals could be released.

### Extinguishing media

- Suitable extinguishing media** : Use approved Class D extinguisher or smother with dry sand, dry clay or dry ground limestone.

## Section 5. Fire-fighting measures

<b>Unsuitable extinguishing media</b>	: Do not use water jet. Halogen (HCFC) extinguisher.
<b>Specific hazards arising from the chemical</b>	: No specific fire or explosion hazard.
<b>Hazardous thermal decomposition products</b>	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides metal oxide/oxides Halides hydrogen cyanide hydrogen chloride
<b>Special protective actions for fire-fighters</b>	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
<b>Special protective equipment for fire-fighters</b>	: Wear MSHA/NIOSH-approved self-contained breathing apparatus or equivalent and full protective gear.
<b>Remark</b>	: Solid.: Non-combustible. Not considered to be a product presenting a risk of explosion. Material in powder form, capable of creating a dust explosion. Molten material reacts violently with water and can react with aluminum, tin, zinc and their alloys to generate flammable and explosive hydrogen gas.

## Section 6. Accidental release measures

This product, under the normal conditions of use, meets the definition of an "ARTICLE".

If dust or fumes are generated during processing (e.g., brazing, cutting, grinding, sawing, and welding) hazardous chemicals could be released.

### Personal precautions, protective equipment and emergency procedures

<b>For non-emergency personnel</b>	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Put on appropriate personal protective equipment.
<b>For emergency responders</b>	: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** : No specific hazard.

### Methods and materials for containment and cleaning up

<b>Small spill</b>	: Restack safely. Take care with items that are sharp or heavy or hot. Aluminum does not change color or glow when hot/heated.
<b>Large spill</b>	: Restack safely. Take care with items that are sharp or heavy or hot. Aluminum does not change color or glow when hot/heated. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

This product, under the normal conditions of use, meets the definition of an "ARTICLE".

If dust or fumes are generated during processing (e.g., brazing, cutting, grinding, sawing, and welding) hazardous chemicals could be released.

### Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Take care with items that are sharp or heavy or hot. Aluminum does not change color or glow when hot/heated.
- Advice on general occupational hygiene** : Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

**Conditions for safe storage, including any incompatibilities** : Storage temperature: room temperature. Store in accordance with local regulations. See Section 10 for incompatible materials before handling or use.

## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

Ingredient name	Exposure limits
silicon	<p><b>NIOSH REL (United States, 10/2020)</b>                      TWA 10 hours: 10 mg/m<sup>3</sup>. Form: Total.                      TWA 10 hours: 5 mg/m<sup>3</sup>. Form: Respirable fraction.</p> <p><b>OSHA PEL (United States, 5/2018)</b>                      TWA 8 hours: 15 mg/m<sup>3</sup>. Form: Total dust.                      TWA 8 hours: 5 mg/m<sup>3</sup>. Form: Respirable fraction.</p> <p><b>CAL OSHA PEL (United States, 1/2025)</b>                      TWA 8 hours: 5 mg/m<sup>3</sup>. Form: respirable fraction.                      TWA 8 hours: 10 mg/m<sup>3</sup>. Form: total dust.</p>
Manganese	<p><b>ACGIH TLV (United States, 1/2025) [Manganese and inorganic compounds] A4.</b>                      TWA 8 hours: 0.02 mg/m<sup>3</sup> (as Mn). Form: Respirable fraction.                      TWA 8 hours: 0.1 mg/m<sup>3</sup> (as Mn). Form: Inhalable fraction.</p> <p><b>NIOSH REL (United States, 10/2020) [manganese compounds and fume]</b>                      TWA 10 hours: 1 mg/m<sup>3</sup> (as Mn). Form: Fume.                      STEL 15 minutes: 3 mg/m<sup>3</sup> (as Mn). Form: Fume.</p> <p><b>OSHA PEL (United States, 5/2018)</b>                      CEIL: 5 mg/m<sup>3</sup> (as Mn). Form: Fume.</p> <p><b>CAL OSHA PEL (United States, 1/2025)</b>                      STEL 15 minutes: 3 mg/m<sup>3</sup> (as Mn).                      TWA 8 hours: 0.2 mg/m<sup>3</sup> (as Mn).</p>
lead	<p><b>ACGIH TLV (United States, 1/2025) [Lead and inorganic compounds] A3.</b>                      TWA 8 hours: 0.05 mg/m<sup>3</sup> (as Pb).</p> <p><b>NIOSH REL (United States, 10/2020)</b>                      TWA 8 hours: 0.05 mg/m<sup>3</sup>.</p> <p><b>OSHA PEL (United States, 5/2018) [Lead inorganic]</b>                      TWA 8 hours: 50 µg/m<sup>3</sup> (as Pb).</p> <p><b>CAL OSHA PEL (United States, 1/2025) [lead (metallic) and inorganic compounds, dust and</b></p>

## Section 8. Exposure controls/personal protection

nickel	<p><b>fume]</b> TWA 8 hours: 0.01 mg/m<sup>3</sup> (as Pb). Form: dust and fume. <b>ACGIH TLV (United States, 1/2025) A5.</b> TWA 8 hours: 1.5 mg/m<sup>3</sup>. Form: Inhalable fraction. <b>NIOSH REL (United States, 10/2020) [nickel metal and other compounds] NIA.</b> TWA 10 hours: 0.015 mg/m<sup>3</sup> (as Ni). <b>OSHA PEL (United States, 5/2018) [Nickel, metal and insoluble compounds]</b> TWA 8 hours: 1 mg/m<sup>3</sup> (as Ni). <b>CAL OSHA PEL (United States, 1/2025)</b> TWA 8 hours: 0.5 mg/m<sup>3</sup> (as Ni).</p>
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### Biological exposure indices

Ingredient name	Exposure indices
lead	<p><b>ACGIH BEI (United States, 1/2025) [lead and inorganic compounds]</b> BEI: 200 µg/l, lead [in blood]. Sampling time: not critical.</p>
nickel	<p><b>ACGIH BEI (United States, 1/2025) [nickel and inorganic compounds]</b> BEI: 30 µg/l, nickel [in urine after exposure to soluble compounds]. Sampling time: post-shift at end of workweek. BEI: 5 µg/l, nickel [in urine after exposure to elemental nickel and poorly soluble compounds]. Sampling time: post-shift at end of workweek.</p>

**Appropriate engineering controls** : No special ventilation requirements. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**Environmental exposure controls** : Not applicable.

### Individual protection measures

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. Wash thoroughly after handling.

**Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

### Skin protection

**Hand protection** : Use strong, cut-resistant gloves suitable for handling metals.

## Section 8. Exposure controls/personal protection

- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Not applicable.

## Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### Appearance

- Physical state** : Solid. [Massive solid.]
- Color** : Gray. / Silver. / Various (Based on paint pigment specified by customer.)
- Odor** : Not available.
- Odor threshold** : Not available.
- pH** : Not applicable.
- Melting point/freezing point** : 593 to 704°C (1099.4 to 1299.2°F)
- Boiling point or initial boiling point and boiling range** : Not available.
- Flash point** : Not applicable.
- Evaporation rate** : Not applicable.
- Flammability** : Not available.
- Lower and upper explosion limit/flammability limit** : Not applicable.
- Vapor pressure** : Not applicable.
- Relative vapor density** : Not applicable.
- Relative density** : 2.5 to 2.9
- Density** : 2.69 to 2.74 g/cm<sup>3</sup>
- Solubility(ies)** :

Media	Result
water	Not soluble

- Miscible with water** : No.
- Partition coefficient: n-octanol/water** : Not applicable.
- Auto-ignition temperature** : Not applicable.
- Decomposition temperature** : Not available.
- SADT** : Not available.
- Viscosity** : Dynamic (room temperature): Not applicable.  
Kinematic (room temperature): Not applicable.  
Kinematic (40°C (104°F)): Not applicable.

### Particle characteristics

- Median particle size** : Not available.

### Other information

- Physical/chemical properties comments** : No additional information.

## Section 10. Stability and reactivity

<b>Reactivity</b>	: No specific test data related to reactivity available for this product or its ingredients.
<b>Chemical stability</b>	: The product is stable.
<b>Possibility of hazardous reactions</b>	: Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous polymerization will not occur.
<b>Conditions to avoid</b>	: Avoid dust generation.
<b>Incompatible materials</b>	: Molten aluminum is reactive with water. Aluminum particles are reactive or incompatible with water, humidity, strong alkalis, strong acids, halogenated acids and strong oxidizing materials.
<b>Hazardous decomposition products</b>	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

<b>Product/ingredient name</b>	<b>Result</b>
silicon	<b>Rat - Oral - LD50</b> 3160 mg/kg
Manganese	<b>Rat - Oral - LD50</b> 9 g/kg <b>Rat - Inhalation - LC50 Dusts and mists</b> 5.14 mg/l [4 hours] OECD [Acute Inhalation Toxicity-Fixed Dose Procedure]
lead	<b>Rat - Male, Female - Oral - LD50</b> >2000 mg/kg OECD [Acute Oral toxicity - Acute Toxic Class Method] <b>Rat - Male, Female - Dermal - LD50</b> >2000 mg/kg OECD [Acute Dermal Toxicity] <b>Rat - Male, Female - Inhalation - LC50 Dusts and mists</b> >5.05 mg/l [4 hours] OECD [Acute Inhalation Toxicity]
nickel	<b>Rat - Oral - LD50</b> >2000 mg/kg

**Conclusion/Summary [Product]** : Not available.

#### Skin corrosion/irritation

<b>Product/ingredient name</b>	<b>Result</b>
Manganese	<b>Rabbit - Skin - Mild irritant</b> Duration of treatment/exposure: 24 hours Amount/concentration applied: 500 mg

## Section 11. Toxicological information

**Conclusion/Summary [Product]** : Not available.

### Serious eye damage/eye irritation

**Product/ingredient name**

silicon

**Result**

**Rabbit - Eyes - Mild irritant**

Amount/concentration applied: 3 mg

Manganese

**Rabbit - Eyes - Mild irritant**

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 500 mg

**Conclusion/Summary [Product]** : Not available.

### Respiratory corrosion/irritation

**Conclusion/Summary [Product]** : Not available.

### Respiratory or skin sensitization

**Skin**

**Conclusion/Summary [Product]** : Dust : May cause sensitization by skin contact.

**Respiratory**

**Conclusion/Summary [Product]** : Not available.

### Germ cell mutagenicity

**Conclusion/Summary [Product]** : Not available.

### Carcinogenicity

**Conclusion/Summary [Product]** : Contains material which can cause cancer.  
Dust (prolonged exposure): Can cause cancer.

### Classification

Product/ingredient name	OSHA	IARC	NTP
lead	-	2B	Reasonably anticipated to be a human carcinogen.
nickel	-	2B	Reasonably anticipated to be a human carcinogen.

### Reproductive toxicity

**Conclusion/Summary [Product]** : Contains material which can impair fertility.  
Dust (prolonged exposure): Possible risk of impaired fertility.

### Specific target organ toxicity (single exposure)

Not available.

## Section 11. Toxicological information

### Specific target organ toxicity (repeated exposure)

#### Product/ingredient name

Manganese

lead

nickel

#### Result

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (brain, lungs) - Category 1

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (blood system, central nervous system (CNS), kidneys) (inhalation) - Category 1

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (respiratory tract) (inhalation) - Category 1

### Aspiration hazard

Not available.

### Information on the likely routes of exposure

Not available.

### Potential acute health effects

- Eye contact** : Not applicable.
- Inhalation** : Not applicable.
- Skin contact** : May cause an allergic skin reaction.
- Ingestion** : Not applicable.

### Symptoms related to the physical, chemical and toxicological characteristics

- Eye contact** : No specific data.
- Inhalation** : Adverse symptoms may include the following:  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations
- Skin contact** : Adverse symptoms may include the following:  
irritation  
redness  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations
- Ingestion** : Adverse symptoms may include the following:  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

#### Long term exposure

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

## Section 11. Toxicological information

### Potential chronic health effects

- Conclusion/Summary [Product]** : Contains material that may cause target organ damage, based on animal data.  
Dust : May cause damage to organs through prolonged or repeated exposure.
- General** : Causes damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
- Carcinogenicity** : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
- Mutagenicity** : No known significant effects or critical hazards.
- Reproductive toxicity** : May damage fertility or the unborn child.  
May cause harm to breast-fed children.

### Numerical measures of toxicity

#### Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
Pretreated and/or Painted Aluminum Extrusions (AAMA 2603)	9288.5	N/A	N/A	N/A	N/A
silicon	3160	N/A	N/A	N/A	N/A
Manganese	9000	N/A	N/A	N/A	5.14
lead	2500	2500	N/A	N/A	N/A
nickel	2500	N/A	N/A	N/A	N/A

## Section 12. Ecological information

### Toxicity

Product/ingredient name	Result	Effect
Manganese	<b>Acute - EC50 - Fresh water</b> Aquatic plants - Duckweed - <i>Lemna minor</i> 31 mg/l [4 days]	<u>Effect</u> : Growth
	<b>Acute - LC50 - Fresh water</b> Fish - Fathead minnow - <i>Pimephales promelas</i> 28 mg/l [96 hours]	<u>Effect</u> : Mortality
	<b>Acute - LC50 - Fresh water</b> Daphnia - Water flea - <i>Daphnia magna</i> 29 mg/l [48 hours]	<u>Effect</u> : Mortality
	<b>Chronic - NOEC - Fresh water</b> Daphnia - <i>Ceriodaphnia dubia</i> 1.7 mg/l [8 days]	OECD [Daphnia Magna Reproduction Test]
lead	<b>Acute - LC50 - Fresh water</b> Crustaceans - Water flea - <i>Ceriodaphnia reticulata</i> Age: <4 hours	<u>Effect</u> : Mortality

## Section 12. Ecological information

530 µg/l [48 hours]

**Acute - LC50 - Fresh water**

Effect: Mortality

Fish - common carp - *Cyprinus carpio* - Juvenile (Fledgling, Hatchling, Weanling)

Size: 3.5 cm

0.44 ppm [96 hours]

**Chronic - NOEC - Fresh water**

Effect: Accumulation

Fish - common carp - *Cyprinus carpio*

Age: 13 months; Size: 10.5 cm; Weight:

27.8 g

0.03 µg/l [4 weeks]

**Acute - EC50 - Fresh water**

Effect: Population

Algae - Green algae - *Raphidocelis*

*subcapitata* - Exponential growth phase

20.5 µg/l [72 hours]

**Chronic - EC10 - Fresh water**

Effect: Population

Algae - Green algae - *Raphidocelis*

*subcapitata* - Exponential growth phase

3.9 µg/l [72 hours]

OECD

nickel

**Acute - EC50 - Fresh water**

Effect: Growth

Aquatic plants - Duckweed - *Lemna minor*

450 µg/l [4 days]

**Chronic - NOEC - Marine water**

Effect: Population

Algae - Dinoflagellate - *Glenodinium halli*

100 mg/l [72 hours]

**Chronic - NOEC - Fresh water**

Effect: Accumulation

Fish - common carp - *Cyprinus carpio*

Age: 13 months; Size: 10.5 cm; Weight:

27.8 g

3.5 µg/l [4 weeks]

**Acute - LC50 - Fresh water**

Effect: Mortality

Crustaceans - Water flea -

*Ceriodaphnia dubia* - Juvenile (Fledgling, Hatchling, Weanling)

Age: 2 to 8 hours

34.6 µg/l [48 hours]

US EPA, OECD

**Chronic - EC10**

Effect: Reproduction

Daphnia - Water flea - *Daphnia magna* -

Neonate

Age: <24 hours

6.9 µg/l [21 days]

OECD

**Acute - LC50 - Fresh water**

Effect: Mortality

Fish - Indian catfish - *Heteropneustes fossilis*

47.5 ng/l [96 hours]

**Conclusion/Summary [Product]** : Not available.

**Persistence and degradability**

## Section 12. Ecological information

**Conclusion/Summary [Product]** : Not available.

### Bioaccumulative potential

Not available.

### Mobility in soil

**Soil/Water partition coefficient** : Not available.

### Other adverse effects

No known significant effects or critical hazards.

## Section 13. Disposal considerations

This product, under the normal conditions of use, meets the definition of an "ARTICLE".

If dust or fumes are generated during processing (e.g., brazing, cutting, grinding, sawing, and welding) hazardous chemicals could be released.

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Reuse or recycle material whenever possible. If reuse or recycling is not possible, disposal must be made in accordance with local and governmental regulations.

## Section 14. Transport information

	<b>DOT Classification</b>	<b>TDG Classification</b>	<b>Mexico Classification</b>	<b>IMDG</b>	<b>IATA</b>
<b>UN number</b>	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
<b>UN proper shipping name</b>	-	-	-	-	-
<b>Transport hazard class(es)</b>	-	-	-	-	-
<b>Packing group</b>	-	-	-	-	-
<b>Environmental hazards</b>	No.	No.	No.	No.	No.

### Additional information

**DOT Classification** : **Reportable quantity** 1111.1 lbs / 504.44 kg. Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.

**Remarks** Not Applicable when shipped as massive solid metal.

## Section 14. Transport information

**Special precautions for user** : Not Applicable when shipped as massive solid metal.

**Transport in bulk according to IMO instruments** : Not available.

## Section 15. Regulatory information

**U.S. Federal regulations** : **TSCA 6 final risk management:** strontium chromate  
**TSCA 8(a) PAIR:** heptane  
**TSCA 8(a) CDR Exempt/Partial exemption:** Not determined  
**United States inventory (TSCA 8b):** All components are active or exempted.  
**Clean Water Act (CWA) 307:** zinc; Copper; chromium; lead; nickel; strontium chromate; chrome antimony titanium buff rutile; antimony nickel titanium oxide yellow; Cobalt titanite green spinel; Cobalt chromite blue green spinel; 29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32 copper  
**Clean Water Act (CWA) 311:** strontium chromate

### TSCA 12(b) - Chemical export notification

Name	One time notification		Annual notification		
	4	5	5(f)	6	7
zinc	Not listed	Not listed	Not listed	Listed	Not listed
lead	Not listed	Not listed	Not listed	Listed	Not listed

**Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)** : Listed

**Clean Air Act Section 602 Class I Substances** : Not listed

**Clean Air Act Section 602 Class II Substances** : Not listed

**DEA List I Chemicals (Precursor Chemicals)** : Not listed

**DEA List II Chemicals (Essential Chemicals)** : Not listed

### SARA 302/304

#### Composition/information on ingredients

No products were found.

**SARA 304 RQ** : Not applicable.

### SARA 311/312

**Classification** : SKIN SENSITIZATION - Category 1  
 CARCINOGENICITY - Category 2  
 TOXIC TO REPRODUCTION - Category 1A  
 TOXIC TO REPRODUCTION - Effects on or via lactation  
 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1

#### Composition/information on ingredients

## Section 15. Regulatory information

Name	%	Classification
magnesium, non flammable solid	≥1 - ≤5	SUBSTANCES AND MIXTURES, WHICH IN CONTACT WITH WATER, EMIT FLAMMABLE GASES - Category 3
silicon	≤3	FLAMMABLE SOLIDS - Category 2 EYE IRRITATION - Category 2B
Manganese	≤3	FLAMMABLE SOLIDS - Category 2 EYE IRRITATION - Category 2B SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1
lead	≤1	CARCINOGENICITY - Category 2 TOXIC TO REPRODUCTION - Category 1A TOXIC TO REPRODUCTION - Effects on or via lactation SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1
nickel	≤0.3	SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1

### SARA 313

	Product name	CAS number	%
<b>Form R - Reporting requirements</b>	Aluminum, non flammable solid	7429-90-5	≥80
	zinc	7440-66-6	≥1 - ≤5
	Manganese	7439-96-5	≤3
	Copper	7440-50-8	≤3
	lead	7439-92-1	≤1
	nickel	7440-02-0	≤0.3
<b>Supplier notification</b>	Aluminum, non flammable solid	7429-90-5	≥80
	zinc	7440-66-6	≥1 - ≤5
	Manganese	7439-96-5	≤3
	Copper	7440-50-8	≤3
	lead	7439-92-1	≤1
	nickel	7440-02-0	≤0.3

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

### State regulations

#### Massachusetts

: The following components are listed: ALUMINUM; MAGNESIUM; ZINC; SILICON DUST; MANGANESE; COPPER

#### New York

: The following components are listed: Zinc; Copper

#### New Jersey

: The following components are listed: ALUMINUM; MAGNESIUM; ZINC; SILICON; MANGANESE; COPPER; LEAD; NICKEL

#### Pennsylvania

: The following components are listed: MAGNESIUM; ZINC COMPOUNDS; SILICON; MANGANESE COMPOUNDS; COPPER FUME

### California Prop. 65

**⚠ WARNING:** This product can expose you to chemicals including Lead and Chromium (hexavalent compounds), which are known to the State of California to cause cancer and birth defects or other reproductive harm. This product can expose you to chemicals including Nickel, Carbon black, Nickel compounds and Nickel compounds, which are known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

## Section 15. Regulatory information

Ingredient name	No significant risk level	Maximum acceptable dosage level
Lead	Yes.	Yes.
Nickel	-	-
Carbon black	-	-
Chromium (hexavalent compounds)	Yes.	Yes.
Nickel compounds	-	-
Nickel compounds	-	-

### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### Montreal Protocol

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

#### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

#### UNECE Aarhus Protocol on POPs and Heavy Metals

Ingredient name	List name	Status
Lead (Pb)	Heavy metals - Annex 1	Listed

## Section 16. Other information

### Procedure used to derive the classification

Classification	Justification
SKIN SENSITIZATION - Category 1	Calculation method
CARCINOGENICITY - Category 2	Calculation method
TOXIC TO REPRODUCTION - Category 1A	Calculation method
TOXIC TO REPRODUCTION - Effects on or via lactation	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1	Calculation method

### History

<b>Date of issue/Date of revision</b>	: 02/11/2026
<b>Date of previous issue</b>	: No previous validation
<b>Version</b>	: 1
<b>Prepared by</b>	: Sphera Solutions
<b>Key to abbreviations</b>	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Intermediate Bulk Container IMDG = International Maritime Dangerous Goods IMO = International Maritime Organization LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available

**Date of issue/Date of revision** : 02/11/2026 **Date of previous issue** : No previous validation **Version** : 1 16/17

## Section 16. Other information

SGG = Segregation Group  
TDG = Transportation of Dangerous Goods  
UN = United Nations

### References

: HCS (U.S.A.) - Hazard Communication Standard  
International transport regulations

✔ Indicates information that has changed from previously issued version.

### Notice to reader

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