

## SAFETY DATA SHEET

This Safety Data Sheet complies with Annex II of 830/2015 amending EC No. 1907/2006, CLP directive 1272/2008, also in accordance with ISO 11014-1 and ANSI Z400.1

Issued: 2019-11-01



# 5554 Aluminum Welding and Metallizing Wire

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

**Trade name** 5554 Aluminum Welding and Metallizing Wire

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

**Product type** This product is a continuous solid metal wire.

**Use** Arc Welding

### 1.3. Details of the supplier of the safety data sheet

**SDS created by** TDS Team

**Supplier** AlcoTec Wire Corporation

**Street address** 2750 Aero Park Drive  
Traverse City, MI 49686  
USA

**Telephone** 1-800-228-0750

**Email** orders@alcotec.com

**Web site** www.alcotec.com

### 1.4. Emergency telephone number

**Emergency phone number** AlcoTec 1-800-228-0750/ Chemtrec 1-800-424-9300

**Available outside office hours** No

*Other*

Not applicable

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

The product is not classified

### 2.2. Label elements

The product does not require labelling in accordance with CLP Regulation (EC) No 1272/2008.

## SAFETY DATA SHEET

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Issued: 2019-11-01



### 5554 Aluminum Welding and Metallizing Wire

#### 2.3. Other hazards

##### Other hazards

When this product is used in a welding process, the most important hazards are welding fumes, heat, radiation and electric shock. Avoid exposure to brazing and welding fumes, radiation, spatter, electric shock, heated materials and dust. Overexposure to cutting, scarfing and welding fumes may result in symptoms like metal fume fever, dizziness, nausea, dryness or irritation of the nose, throat or eyes. Overexposure to cutting, scarfing and welding fumes may affect pulmonary function. Persons with a pacemaker should not go near welding or cutting operations until they have consulted their doctor and obtained information from the manufacturer of the device.

##### Other

Not applicable

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Issued: 2019-11-01



## 5554 Aluminum Welding and Metallizing Wire

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

| <i>Chemical name</i>          | <i>CAS No.<br/>EC No.<br/>REACH No.<br/>Index No.</i> | <i>Concentration</i> | <i>Classification</i>       | <i>H-phrase<br/>M factor acute<br/>M factor chronic</i> | <i>Note</i> |
|-------------------------------|---|----------------------|-----------------------------|---|-------------|
| Aluminum                      | 7429-90-5<br>231-072-3<br>-<br>-                      | 99 - 100%            | -                           | -<br>-<br>-   | -           |
| magnesium powder (pyrophoric) | 7439-95-4<br>231-104-6<br>-<br>-                      | 2.4 - 3%             | Pyr. Sol. 1, Water react. 1 | H250, H260<br>-<br>-                                    | -           |
| MANGANESE                     | 7439-96-5<br>231-105-1<br>-<br>-                      | 0.05 - 1%            | -                           | -<br>-<br>-   | -           |
| IRON                          | 7439-89-6<br>231-096-4<br>-<br>-                      | 0 - 0.4%             | -                           | -<br>-<br>-   | -           |
| Silicon                       | 7440-21-3<br>231-130-8<br>-<br>-                      | 0 - 0.25%            | -                           | -<br>-<br>-   | -           |
| Zinc                          | 7440-66-6<br>231-175-3<br>-<br>-                      | 0 - 0.25%            | -                           | -<br>-<br>-   | -           |
| Titanium                      | 7440-32-6<br>231-142-3<br>-<br>-                      | 0.05 - 0.2%          | -                           | -<br>-<br>-   | -           |
| CHROMIUM                      | 7440-47-3<br>231-157-5<br>-<br>-                      | 0.05 - 0.2%          | -                           | -<br>-<br>-   | -           |
| COPPER                        | 7440-50-8<br>231-159-6<br>-<br>-                      | 0 - 0.1%             | -                           | -<br>-<br>-   | -           |



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Issued: 2019-11-01

## 5554 Aluminum Welding and Metallizing Wire

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

|  |  |
|--|--|
| <b>Description of first aid measures</b> | No first aid measures should be required for this product as shipped. <b>WARNING:</b> Welding fumes and gases are hazardous to your health and may damage lungs and other organs. Use adequate ventilation. Disconnect and turn off the power. Use a nonconductive material to pull victim away from contact with live parts or wires. If not breathing, begin artificial respiration, preferably mouth-to-mouth. If no detectable pulse, begin Cardio Pulmonary Resuscitation (CPR). call emergency physician to the scene of the accident. |
| <b>Inhalation</b>                        | If breathing has stopped, perform artificial respiration and obtain medical assistance immediately! If breathing is difficult, provide fresh air and call physician.   |
| <b>Skin contact</b>                      | For skin burns from arc radiation, promptly flush with cold water. Get medical attention for burns or irritations that persist. To remove dust or particles wash with mild soap and water  |
| <b>Eye contact</b>                       | For radiation burns due to arc flash, see physician. To remove dusts or fumes flush with water for at least fifteen minutes. If irritation persists, obtain medical assistance.  |
| <b>Ingestion</b>                         | According to experience not expected.  |

#### 4.2. Most important symptoms and effects, both acute and delayed

|  |  |
|--|--|
| <b>Most important symptoms and effects, both acute and delayed</b> | No first aid measures should be required for this product as shipped.  |
| <b>Inhalation</b>  | Overexposure to welding fumes may result in symptoms like metal fume fever, dizziness, nausea, dryness or irritation of the nose, throat or eyes. Chronic overexposure to welding fumes may affect pulmonary function. |
| <b>Skin contact</b>  | ELECTRIC SHOCK can kill.   |
| <b>Eye contact</b>   | ELECTRIC SHOCK can kill.   |
| <b>Ingestion</b>   | According to experience not expected.  |

#### 4.3. Indication of any immediate medical attention and special treatment needed

Not applicable

Other

Not applicable

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Not applicable

#### 5.2. Special hazards arising from the substance or mixture

|  |  |
|--|--|
| <b>Special hazards arising from the substance or mixture</b> | No specific recommendations for welding consumables. Welding arcs and sparks can ignite combustible and flammable materials. Use the extinguishing media recommended for the burning materials and fire situation. |
|--|--|

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Issued: 2019-11-01



# 5554 Aluminum Welding and Metallizing Wire

### 5.3. Advice for firefighters

#### Special protective equipment for fire-fighters

Wear self-contained breathing apparatus as fumes or vapors may be harmful.

#### Other

Not applicable

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### Personal precautions, protective equipment and emergency procedures

Wear hand, head, eyes, ear and body protection like welders gloves, helmet or face shield with filter lens, safety boots, apron, arm and shoulder protection. Keep protective clothing clean and dry.

### 6.2. Environmental precautions

#### Environmental precautions

Refer to Section 13.

### 6.3. Methods and material for containment and cleaning up

#### Methods and material for containment and cleaning up

Solid objects may be picked up and placed into a container. Liquids or pastes should be scooped up and placed into a container. Wear proper protective equipment while handling these materials. Do not discard as refuse.

### 6.4. Reference to other sections

#### Reference to other sections

Refer to Section 8 and Section 13.

#### Other

Not applicable

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Preventive handling precautions

Handle with care to avoid stings and cuts. Wear gloves when handling welding consumables. Avoid exposure to dust. Do not ingest. Some individuals can develop an allergic reaction to certain materials. Retain all warning and identity labels.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Conditions for safe storage, including any incompatibilities

Keep separate from chemical substances like acids and strong bases, which could cause chemical reactions.

### 7.3. Specific end use(s)

#### Specific end use(s)

Arc Welding

#### Other

Not applicable

## SAFETY DATA SHEET

This Safety Data Sheet complies with Annex II of  
830/2015 amending EC No. 1907/2006, CLP  
directive 1272/2008, also in accordance with ISO  
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Issued: 2019-11-01

### 5554 Aluminum Welding and Metallizing Wire

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure limits

Use industrial hygiene monitoring equipment to ensure that exposure does not exceed applicable national exposure limits. The following limits can be used as guidance. Unless noted, all values are for 8 hour time weighted averages (TWA).

#### National occupational exposure limits

| Ingredient                       | CAS No.<br>EC No.      | Exposure limit<br>ppm / mg/m <sup>3</sup> | Short-term expos-<br>ure limit<br>ppm / mg/m <sup>3</sup> | Ceiling exposure<br>limit<br>ppm / mg/m <sup>3</sup> | Source | Remark   | Year |
|----------------------------------|------------------------|---|---|--|--------|--|------|
| Silicon                          | 7440-21-3<br>231-130-8 | -<br>15                                   | -<br>-  | -<br>-   | OSHA   | Total Dust   | 2017 |
| Silicon                          | 7440-21-3<br>231-130-8 | -<br>5                                    | -<br>-  | -<br>-   | OSHA   | Respirable<br>Fraction                                       | 2017 |
| MANGANESE                        | 7439-96-5<br>231-105-1 | -<br>-                                    | -<br>-  | -<br>5   | OSHA   | as Mn  | 2017 |
| Zinc                             | 7440-66-6<br>231-175-3 | -<br>-                                    | -<br>-  | -<br>-   | OSHA   | NO PEL   | 2017 |
| Titanium                         | 7440-32-6<br>231-142-3 | -<br>-                                    | -<br>-  | -<br>-   | OSHA   | NO PEL   | 2017 |
| IRON                             | 7439-89-6<br>231-096-4 | -<br>-                                    | -<br>-  | -<br>-   | OSHA   | NO PEL   | 2017 |
| COPPER                           | 7440-50-8<br>231-159-6 | -<br>0.1                                  | -<br>-  | -<br>-   | OSHA   | as Cu(fume)  | 2017 |
| COPPER                           | 7440-50-8<br>231-159-6 | -<br>1                                    | -<br>-  | -<br>-   | OSHA   | as<br>Cu(dust,mist)  | 2017 |
| magnesium powder<br>(pyrophoric) | 7439-95-4<br>231-104-6 | -<br>-                                    | -<br>-  | -<br>-   | OSHA   | NO PEL   | 2017 |
| Aluminum                         | 7429-90-5<br>231-072-3 | -<br>15                                   | -<br>-  | -<br>-   | OSHA   | Total Dust   | 2017 |
| Aluminum                         | 7429-90-5<br>231-072-3 | -<br>5                                    | -<br>-  | -<br>-   | OSHA   | Respirable<br>Fraction                                       | 2017 |
| Chromium                         | 7440-47-3<br>231-157-5 | -<br>1                                    | -<br>-  | -<br>-   | OSHA   | as metal   | 2017 |
| Chromium                         | 7440-47-3<br>231-157-5 | -<br>0.5                                  | -<br>-  | -<br>-   | OSHA   | as Cr(Cr(II) and<br>Cr(III) inorganic<br>comps)              | 2017 |
| Chromium                         | 7440-47-3<br>231-157-5 | -<br>0.005                                | -<br>-  | -<br>-   | OSHA   | as Cr(VI)(water<br>sol. and insol.<br>inorganic com-<br>pds) | 2017 |

### 8.2. Exposure controls

Not applicable



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Issued: 2019-11-01

# 5554 Aluminum Welding and Metallizing Wire

### Other

**Other**

Avoid exposure to brazing and welding fumes, radiation, spatter, electric shock, heated materials and dust. Train welders to avoid contact with live electrical parts and insulate conductive parts.

**Ventilation**

Use respirator or air supplied respirator when welding or brazing in a confined space, or where local exhaust or ventilation is not sufficient to keep exposure values within safe limits. Use special care when welding painted or coated steels since hazardous substances from the coating may be emitted. Ensure sufficient ventilation, local exhaust, or both, to keep welding fumes and gases from breathing zone and general area.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

**Appearance, physical state**

Silver grey

**Appearance, colour**

Not applicable

**Odour**

None

**Odour treshold**

Not applicable

**pH value**

Not applicable

**Melting point / freezing point**

970 - 1515 °F

**Initial boiling point and boiling range**

Not applicable

**Flash point**

Not applicable

**Evaporation rate**

Not applicable

**Flammability (solid, gas)**

Not applicable

**Upper / lower flammability or explosive limits**

Not applicable

**Vapour pressure**

Not applicable

**Vapour density**

Not applicable

**Relative density**

0.1 lb/in<sup>3</sup>

**Solubility**

Not applicable

**Water solubility**

None

**Partition coefficient: n-octanol / water**

Not applicable

**Auto-ignition temperature**

Not applicable

**Decomposition temperature**

Not applicable

**Viscosity, kinematic**

Not applicable



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Issued: 2019-11-01

# 5554 Aluminum Welding and Metallizing Wire

**Viscosity, dynamic** Not applicable

**Explosive properties** Not applicable

**Oxidising properties** Not applicable

### 9.2. Other information

Not applicable

### Other

Not applicable

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity** The product is non-reactive under normal conditions of use, storage, and transport.

### 10.2. Chemical stability

**Chemical stability** Stable at normal conditions

### 10.3. Possibility of hazardous reactions

Not applicable

### 10.4. Conditions to avoid

**Conditions to avoid** Incompatible with strong acids and oxidizing agents. This product is only intended for normal welding purposes.

### 10.5. Incompatible materials

**Incompatible materials** Incompatible with strong acids and oxidizing agents.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** When this product is used in a welding process, hazardous decomposition products would include those from the volatilization, reaction or oxidation of the materials listed in Section 3 and those from the base metal and coating.

### Other

**Other** Refer to applicable national exposure limits for fume compounds, including those exposure limits for fume compounds found in Section 8.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

**Information on toxicological effects** Inhalation of welding fumes and gases can be dangerous to your health. Classification of welding fumes is difficult because of varying base materials, coatings, air contamination and processes. The International Agency for Research on Cancer has classified welding fumes as possibly carcinogenic to humans (Group 2B).





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830/2015 amending EC No. 1907/2006, CLP  
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Issued: 2019-11-01

# 5554 Aluminum Welding and Metallizing Wire

|                                       |   |
|---------------------------------------|---|
| <b>Acute toxicity</b>                 | Overexposure to welding fumes may result in symptoms like metal fume fever, dizziness, nausea, dryness or irritation of the nose, throat or eyes. |
| <b>Skin corrosion/irritation</b>      | No data available   |
| <b>Serious eye damage/irritation</b>  | No data available   |
| <b>Respiratory/skin sensitization</b> | No data available   |
| <b>Germ cell mutagenicity</b>         | No data available   |
| <b>Genotoxicity</b>                   | No data available   |
| <b>Carcinogenicity</b>                | *This product contains substance(s) that may cause cancer, which is/are classified as Carcinogenic to humans as per IARC.                         |
| <b>Repeated dose toxicity</b>         | No data available   |
| <b>Reproductive toxicity</b>          | No data available   |
| <b>STOT-single exposure</b>           | No data available   |
| <b>STOT-repeated exposure</b>         | No data available   |
| <b>Aspiration hazard</b>              | No data available   |
| <b>LD50 Oral</b>                      | No data available   |
| <b>LD50 Dermal</b>                    | No data available   |
| <b>LC50 Inhalation</b>                | No data available   |
| <i>Other</i>                          |   |
| <b>Long term effect</b>               | Chronic toxicity: Overexposure to welding fumes may affect pulmonary function.  |

## SECTION 12: Ecological information

### 12.1. Toxicity

|                                  |   |
|----------------------------------|---|
| <b>Acute toxicity</b>            | No data available   |
| <b>Toxicity</b>                  | Welding consumables and materials could degrade/weather into components originating from the consumables or from the materials used in the welding process. Avoid exposure to conditions that could lead to accumulation in soils or groundwater. |
| <b>Aquatic</b>                   | No data available   |
| <b>Soil</b>                      | No data available   |
| <b>Acute fish toxicity</b>       | No data available   |
| <b>Acute algae toxicity</b>      | No data available   |
| <b>Acute crustacean toxicity</b> | No data available   |
| <b>Chronical toxicity</b>        | No data available   |



## SAFETY DATA SHEET

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Issued: 2019-11-01

# 5554 Aluminum Welding and Metallizing Wire

### 12.2. Persistence and degradability

**Persistence and degradability** No data available

**Decay/transformation** No data available

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** No data available

### 12.4. Mobility in soil

**Mobility** No data available

### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** No data available

### 12.6. Other adverse effects

**Other adverse effects** No data available

*Other*

Not applicable

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Disposal considerations**

Discard any product, residue, disposable container or liner in an environmentally acceptable manner, in full compliance with federal and local regulations. Use recycling procedures if available.  
USA RCRA: Unused products or product residue containing chromium is considered hazardous waste if discarded, RCRA ID Characteristic Toxic Hazardous Waste D007.  
(<https://rcrainfo.epa.gov/rcrainfoweb/action/modules/main/glossary/waste.jsessionid=A98F2456754BC0CE970C52F4E3AA429F>)  
Residues from welding consumables and processes could degrade and accumulate in soils and ground-water.

*Other*

Not applicable

## SECTION 14: Transport information

### 14.1. UN number

Not applicable

### 14.2. UN proper shipping name

Not applicable

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Issued: 2019-11-01



# 5554 Aluminum Welding and Metallizing Wire

### 14.3. Transport hazard class(es)

Not applicable

### 14.4. Packing group

Not applicable

### 14.5. Environmental hazards

Not applicable

### 14.6. Special precautions for user

Not applicable

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

### Other

Not applicable

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU regulations

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

DIRECTIVE 2008/98/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL. of 19 November 2008. on waste and repealing certain Directives.

European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste.

## SAFETY DATA SHEET

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Issued: 2019-11-01

### 5554 Aluminum Welding and Metallizing Wire

#### Other regulations, limitations and legal regulations

Poland Regulations:

ACT of 25 February 2011 on the chemical substances and their mixtures(OJ # 63, poz. 322).

Regulation of the Minister of Labour and Social Policy of 6 June 2014 on Maximum Permissible Concentration and Intensity of Agents Harmful to Health in the Working Environment (Dz. u. z. 2014, poz 817).  
The Act on Waste of 14 December 2012, Journal of Laws of 2013, item 21 with amendments

Act of 13th June 2013 on packaging management and packaging waste (Journal of Laws of 2013, item 888).

Regulation of the Minister of the Environment of 9 December 2014 on waste catalogue (Journal of Laws of 2014, item 1923).

Regulation of the Minister of Economy of 21 December 2005. Concerning essential requirements for personal protective equipment (Journal. Laws No. 259, item. 2173).

Regulation of the Minister of Health of 2 February 2011 on tests and measurements of factors harmful to health in the working environment (the Journal of Laws 2011, no. 33, item 166).

USA Regulations :

USA: This product contains or produces a chemical known to the state of California to cause cancer and birth defects (or other reproductive harm). (California Health & Safety Code § 25249.5 et seq.)

CERCLA/SARA Title III Reportable Quantities (RQs) and/or Threshold Planning Quantities (TPQs):  
Product is a solid solution in the form of a solid article. Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center and to your Local Emergency Planning Committee.

EPCRA/SARA Title III 313 Toxic Chemicals: The following metallic components are listed as SARA 313 "Toxic Chemicals" and potential subject to annual SARA 313 reporting. See Section 3 for weight percent.  
Chromium: 1.0% de minimis concentration  
Copper: 1.0% de minimis concentration  
Aluminium: 1.0% de minimis concentration  
Zinc: 1.0% de minimis concentration  
Manganese: 1.0% de minimis concentration

International Inventories:

Australia: The substance(s) in this product is/are in compliance with the inventory requirements of Australian Inventory of Chemical Substances (AICS)

United States EPA Toxic Substance Control Act: All constituents of this product are on the TSCA inventory list or are excluded from listing.

Canadian Environmental Protection Act (CEPA): All constituent(s) of this product is/are on the Domestic Substance List (DSL).

#### 15.2. Chemical safety assessment

##### Chemical safety assessment

No data available

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Issued: 2019-11-01



# 5554 Aluminum Welding and Metallizing Wire

### Other

#### Other

Read and understand the manufacturer's instructions, your employer's safety practices and the health and safety instructions on the label. Observe any federal and local regulations. Take precautions when welding and protect yourself and others.

WARNING: Welding fumes and gases are hazardous to your health and may damage lungs and other organs. Use adequate ventilation. ELECTRIC SHOCK can kill. ARC RAYS and SPARKS can injure eyes and burn skin.

## SECTION 16: Other information

#### Changes to previous revision

This Safety Data Sheet has been revised due to modifications to Sections 1-16.

#### References to key literature and data sources

Refer to ESAB "Welding & Cutting - Risks and Measures", F52-529 "Precautions and Safe Practices for ARC WELDING, CUTTING & GOUGING" and F2035 "Precautions and Safe Practices for Gas Welding, Cutting and Heating" available from ESAB Website. [www.esab.com](http://www.esab.com)

USA: Contact AlcoTec at [orders@alcotec.com](mailto:orders@alcotec.com) or 1-800-228-0750 if you have any questions about this SDS.

#### Phrase meaning

Pyr. Sol. 1 - Pyrophoric solids, hazard category 1

Water react. 1 - Substances and mixtures, which in contact with water, emit flammable gases, hazard category 1

H250 Catches fire spontaneously if exposed to air.

H260 In contact with water releases flammable gases which may ignite spontaneously.

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Issued: 2019-11-01



# 5554 Aluminum Welding and Metallizing Wire

### Other

#### Additional information

American National Standard Z49.1 Safety in Welding and Cutting, ANSI/AWS F1.5 Methods for Sampling and Analyzing Gases from Welding and Allied Processes, ANSI/AWS F1.1 "Method for Sampling Airborne Particles Generated by Welding and Allied Processes", AWSF3.2M/F3.2 "Ventilation Guide for Weld Fume", 550 North Le Jeune Road, Miami Florida 33135. Safety and Health Fact Sheets available from AWS at [www.aws.org](http://www.aws.org).

OSHA Publication 2206 (29 C.F.R. 1910), U.S. Government Printing Office, Superintendent of Documents, P.O. Box 371954, Pittsburgh, PA 15250-7954

American Conference of Governmental Hygienists (ACGIH), Threshold Limit Values and Biological Exposure Indices, 6500 Glenway Ave., Cincinnati, Ohio 45211, USA.

NFPA 51B "Standard for Fire Prevention During Welding, Cutting and Other Hot Work" published by the National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169

UK: WMA Publication 236 and 237, "Hazards from Welding fume", "The arc welder at work, some general aspects of health and safety".

Germany: Germany: Accident prevention regulation BGV D1, "Welding, cutting and related processes".

Canada: CSA Standard CAN/CSA-W117.2-01 "Safety in Welding, Cutting, and Allied Processes".

This product has been classified according to the hazard criteria of the CPR and the SDS contains all of the information required by the CPR.

ESAB requests the users of this product to study this Safety Data Sheet (SDS) and become aware of product hazards and safety information. To promote safe use of this product a user should: notify its employees, agents and contractors of the information on this SDS and any product hazards/safety information.furnish this same information to each of its customers for the products

Request such customers to notify employees and customers for the same product hazards and safety information.

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